

# KANSAS FARMER

For the improvement of the Farm and Home

Volume 52, Number 36. TOPEKA, KANSAS SEPTEMBER 5, 1914. Established 1863. \$1 a Year



IT'S FAIR TIME

# Studebaker

## The Report Is True—Here Are The Prices

**U**NDoubtedly—along with the whole country—you have been amazed at the prices for the new Studebaker cars—\$985 for a big, roomy touring car and \$1385 for a Studebaker "Six."

These would be extraordinary prices for just a "good" car,

What, then, can be said of these prices for a Studebaker car?

What, then, can be said of these prices when they carry with them the Studebaker name, the Studebaker reputation, the Studebaker character, the Studebaker guarantee—the Studebaker Quality?

It is too little to say they are extraordinary.

We believe these prices with Studebaker Quality are unprecedented.

Our fathers and grandfathers know the name Studebaker. For sixty-two years it has meant American vehicles, honestly, sturdily made. For sixty-two years farm and city homes have known Studebaker as the name for dollar-for-dollar value.

These sixty-two years Studebaker has grown enormously—in reputation, in production, in prosperity.

Today Studebaker means—in city and country—the acme of elegance as well as the acme of money-worth.

Today we give Studebaker owners and Studebaker buyers the benefit of sixty-five years of Studebaker growth.

That growth has made possible Studebaker Quality at Studebaker prices—and has made them possible for these reasons:

First, there is the huge volume of Studebaker production.

During the last eighteen months 55,000 Studebaker cars have been manufactured and sold.

This is the largest number of cars of one make, selling at or above the Studebaker price, ever produced in the same period by any manufacturer.

Second, Studebaker cars are manufactured cars—manufactured in the Studebaker plants.

Studebaker motors, springs, bodies, tops, drop forgings are made in Studebaker plants.

Special formulæ for Studebaker steels are worked out and the steels are tested and

analyzed in Studebaker laboratories, probably the largest and most completely equipped in the motor car industry.

Studebaker gears, axle-shafts, front axles, all vital parts are manufactured and heat-treated in Studebaker plants.

Studebaker, we believe, manufactures a larger proportion of motor car parts than does any other motor car producer in this country.

The completeness of Studebaker manufacture of Studebaker cars means better, stronger, longer-wearing materials—consequently Studebaker Quality.

But in addition, it means the saving of the parts-maker's profit, the waste and extravagance of the "assembled" or semi-manufactured car.

And that, in turn, means the economies that make possible Studebaker prices.

The volume of Studebaker production and the completeness of Studebaker manufacture mean the Quality and the Profit that go back into the Studebaker car you buy.

The Studebaker has the double distinction—Unique in Quality and Unique in Price.

The Studebaker Car of 1915 is an impressive example of what square-leading, good building and right-thinking among the American people can do in sixty-five years.

Today the American people in town and country "Buy it Because It's a Studebaker."

The Studebaker Corporation of America  
79 Piquette Ave., Detroit, Mich.

### Specifications

#### The New SIX—5-Passenger and 7-Passenger

Electric Starter, Electric Lights.  
Two body styles: Five-Passenger and Seven-Passenger Touring.  
Wheelbase—121 inches.  
Long-Stroke (5-inch), Small-Bore 3¼-inch Motor; Six Cylinders, en Bloc.  
Special Dimming Headlights.  
Smokeless, Non-Leaking Lubrication System.  
New Exhaust-Silencing Muffler.  
Annular Piston Rings.  
Cellular Radiator.  
Crowned Fenders.  
15 x 2½ in. brakes.  
34 x 4-in. Goodrich Tires on Q. D. Demountable Rims; Safety Tread on Rear.  
Extra Rim and Locking Tire Carrier.  
Roomier Front and Rear Compartments.  
Continuous Aluminum Footboard.  
One-Man Type Top.  
Built-in Rain and Clear Vision Ventilating Windshield, Attaching Rigidly to Top.  
Scientific Anti-Rumble Gasoline Tank in Cowl.  
Magnetic, Non-Leaking Gasoline Gauge, the only One Approved by Insurance Underwriters.  
Full Floating Rear Axle, Shaft Locking into Taper at Hub. Timken Bearings.  
Full Equipment of 13 Timken Roller Bearings.  
Irreversible Steering Gear.  
Inter-Locking Ignition and Lighting Switches.  
20 Operations in Painting Bodies.

#### The New FOUR Roadster and Touring Car

Electric Starter, Electric Lights.  
Two Body Styles: Five-Passenger Touring; Three-Passenger Roadster.  
Wheelbase—108 inches.  
Long-Stroke (5-inch), Small-Bore (3¼-inch) Motor; Four Cylinders, en Bloc, Exhaust Manifold Cast Separate.  
Smokeless, Non-Leaking Lubrication System.  
Special Dimming Headlights.  
Pressed Steel Push-Rods.  
Annular Piston Rings.  
Tubular Radiator with Auxiliary Water Tank.  
Crowned Fenders.  
12 x 2½-in. Brakes.  
Hot-Jack-rod Schebler Carburetor Bolted to Cylinders.  
Magnetic, Non-Leaking Gasoline Gauge, the Only One Approved by Insurance Underwriters.  
Generous Footroom in Both Compartments.  
33 x 4 in. Goodrich Tires on Q. D. Demountable Rims; Safety Tread on Rear.  
One-Man Type Top.  
Built-in Rain and Clear Vision Ventilating Windshield, Attaching Rigidly to Top.  
Full Floating Rear Axle, Shaft Locking into Taper at Hub. Timken Bearings.  
Full Equipment of 13 Timken Roller Bearings.  
Irreversible Steering Gear.  
Flush Dash Equipment.  
Extra Rim and Locking Tire Carrier.  
20 Operations in Painting Bodies.

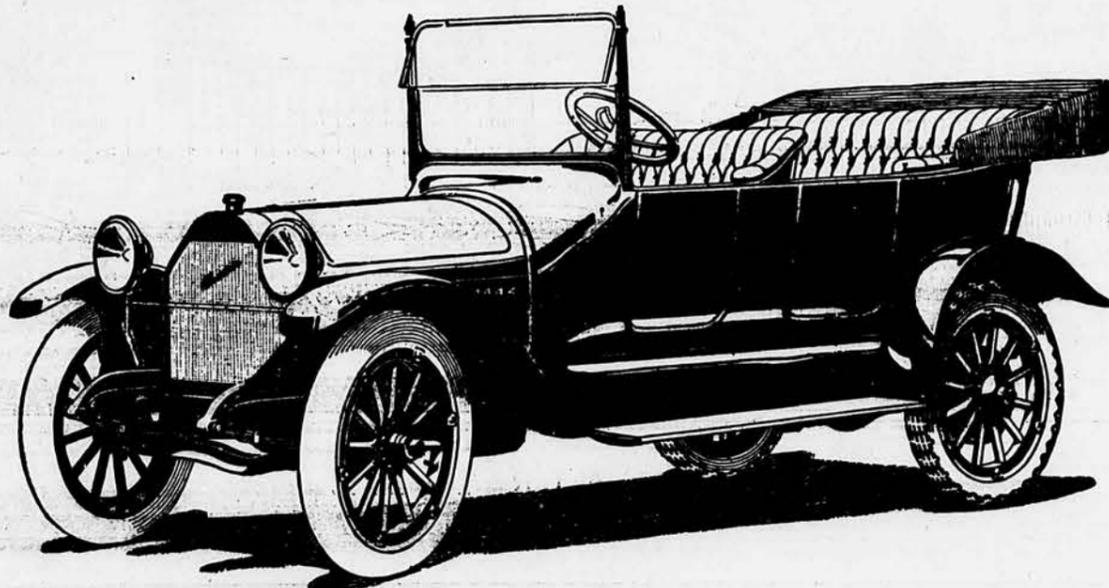
**FOUR** Touring Car

**\$985**

(Three-Passenger FOUR Roadster \$985)

Electric Starter and Electric Lights

Extra Size Tires



**SIX** Five Passenger

**\$1385**

(Seven-Passenger \$1450)

Electric Starter and Electric Lights

Completely Equipped

# KANSAS FARMER

The Standard Farm Paper of Kansas

ALBERT T. REID, President  
S. H. FITCHER, Secretary

T. A. BORMAN, Editor in Chief  
G. C. WHEELER, Live Stock Editor

Editorial, Advertising and Business Offices — Topeka, Kansas  
Chicago Office, Advertising Building, Geo. W. Herbert, Inc., Manager  
New York Office, 41 Park Row, Wallace C. Richardson, Inc., Manager

Entered at the Topeka post office as second class matter



## SAVING SEED OF SORGHUMS.

Any increase in the bushel or tonnage yield, the early maturity and dry weather resistance and evasion and any increasing general usefulness of sorghum crops will depend upon the care exercised in the selection of seed. This is particularly true of kafir if in yield and early maturity it is to be re-established to its usefulness of twenty years ago. This is also true of milo, but not for the same reasons as in the case of kafir, because milo, being a comparatively new crop in Kansas, has not suffered to the same extent by degeneration from mixing or from other causes. Care in saving the seed is important in the case of feterita because if such care is not exercised it is safe to conclude that the desirable characteristics of feterita will diminish as in kafir. Unless feterita heads of the right type and of early maturity are saved, the crop will each year become later and later in maturity and the advantage it now possesses for early feed and dry weather resistance will be minimized. It will be remembered that the inherent dry weather resistance of the sorghums is not the only feature of advantage possessed by this family of plants. The sorghums cross-fertilize and mix easily and mongrel strains reduce the yield and crop assurance. The harvesting of early and late-maturing heads together and the planting of mixed seed results in a depreciating vitality which seriously affects the usefulness of the plant. So if the grain sorghums are to live up to the expectations of the grower and to the possibilities of the plant, then pure, early-maturing seed only should be saved for planting purposes.

The selection of desirable seed of these can be made in the field only. It is in the field that the early-ripening heads are easily selected—in fact the early-ripening heads cannot be detected from the late-ripening if selection is made from the shock or after the heads have been harvested. It will pay to go through the field and tie a strip of bright-colored rag on the stem of each head which is desired for seed. This will so mark the heads that they can be distinguished when ripe from the later-maturing heads. It will not be much trouble to so mark the seed heads, neither will it be troublesome to gather them if they are so marked. Whether the trouble be much or little, the selection will well repay the grower for the time and effort. In making the selection the true type of head of kafir, milo and feterita should be observed. This type indicates purity and the seed of heads of such type will possess in a greater degree those inherent qualities which make the plant adapted to seasons of adverse growing conditions. The type of head alone is not the only point for consideration. The character of stalk is important. For instance, in the case of kafir, the short, well-leaved stalk is desirable. The heads should be selected from stalks uniform in height, the idea being to develop uniform growth, thus facilitating machine harvesting.

Selection should be made in the case of each of the three above-named grain sorghums from stalks which have no suckers or branches, if possible. The tendency of the sorghums is to branch and sucker. In dry seasons branching and suckering is detrimental. It is easy to plant the seed necessary to secure a stand without dependence upon branching or suckering to produce the desired stand. Select heads only from the main stalk.

The marked heads should remain in the field until ripe, but just so soon as ripe they should be gathered. This to prevent damage by exposure to the elements. The heads so gathered should be stored in a dry place and in such manner that the air can circulate thoroughly through each part of the head. The best plan is to hang the head point downward in such way that they do not touch each other. If the heads are thoroughly dried and kept dry, cold weather will not injure the vitality of the seed. Freezing weather will injure the seed only when it is wet. Keep the heads dry and do not remove the seed until ready to plant next spring.

Do not conclude that the instructions are burdensome and that the advantages to be gained are not worth the labor cost. It is worth more to every farmer than can be figured in dollars and cents, to have pure, vigorous, dry weather-resisting and early-maturing seed of kafir, milo and feterita. These are the "sure feed crops" of this country and farmers who need feed must in the future depend upon these to a greater extent than in the past. There are fields of these now which produced good grain yields this season on farms on which there is no corn. Failure of any of the sorghums to produce grain in satisfactory bushel yields anywhere in Kansas this year is due to causes not to be attributed to the crop itself but to seed poor in some particular, to late planting, to too thick planting, to lack of cultivation, or to other causes which are within the control of the grower. To keep such good seed as we now have good, and to improve such poor seed as we have, the above methods of selection are necessary.

## NEED NOT VACCINATE SHOW HOGS.

Kansas, in common with other states in the Middle West, has in effect rather drastic regulations concerning the shipment of hogs from one state to another. Owing to the difficulty of securing satisfactory vaccination in some cases, these regulations seriously handicap the transportation of hogs for show purposes at our various state fairs. In order to permit those who have been unable to satisfactorily immunize their show hogs, a temporary modification of the general rule requiring the vaccination of all hogs shipped into the state has been made by the live stock sanitary commissioner.

Under this ruling, hogs which have not been vaccinated may be shipped into the state, providing they are accompanied by a health certificate issued by a veterinarian and an affidavit to the effect that no infectious or contagious diseases existed on the premises from which the hogs came, and that they were thoroughly disinfected before loading at each point where they are offered for shipment.

This ruling will undoubtedly make it possible for some exhibitors from other states to show hogs at our Kansas fairs who would otherwise have been unable to do so.

The owner of non-immune hogs, of course, realizes that he is taking considerable risks in showing his hogs. Every breeder of experience realizes this and uses every precaution possible to eliminate the chances of introducing cholera on the home farm.

A similar modification of the sanitary rules of the state of Kansas has been made regarding the shipping of horses and cattle for exhibition purposes. Certificates showing a satisfactory mallein test for glanders will not be required for horses, nor certificate for tuberculin tests of cows when these animals are accompanied by a veterinarian's certificate of health and in addition an affidavit to the effect that they are coming in for show purposes only and are in the state temporarily. If any of these animals are sold in the state it will be necessary that they pass the respective tests required for all animals shipped in for breeding purposes.

All transportation companies have been notified of these modified rulings and shippers of exhibition live stock should experience no difficulty in getting their stock shipped into Kansas providing they acquaint themselves with the regulations, make the required affidavits, and secure the necessary certificates.

## NEW STOCK COMMISSIONER.

Taylor Riddle, who has for years been associated with live stock work in Marion County, is the man selected by Governor Hodges to succeed S. S. Graybill as live stock sanitary commissioner. Mr. Graybill has just been appointed postmaster at Hutchinson and expects to take up the duties of his new position in a few days.

The office of live stock commissioner is an important one to the live stock

interests of the state and Mr. Riddle's ability and general experience with live stock matters should make him a good official for administering the laws and regulations for controlling the various diseases of domestic animals within our state.

## HOLD BREEDING HERDS.

The necessity for Kansas farmers holding their breeding herds intact and conserving the calves, is well shown by some figures compiled by J. C. Mohler, secretary of the Kansas State Board of Agriculture. Conditions occasioned by the European war make the previously serious meat situation more acute than ever. This because of the ever-growing consumption, decreasing supplies and prevailing high prices. Secretary Mohler says:

"The problem of upbuilding and replenishing our herds is of paramount importance. There are fewer beef cattle in Kansas today than in any year since 1896. In fact, excepting 1894, '95 and '96, the number is the smallest since 1885. Returns of assessors for 1914 show a falling off in the past year of 126,000, the total for the state March 1 being 1,426,000, as against 1,552,000 twelve months before. A decrease was expected, of course, owing to the heavy selling brought about by dry weather last summer.

"Conditions throughout the United States have been somewhat similar and in the same period show a decrease of about 27 per cent in numbers, with an increase in average price per head of about 78 per cent, while the rise in value in Kansas amounts to 72 per cent. That the Kansas percentage is less is accounted for by the fact that her stock was worth more in 1909 than the average for the nation. The United States' exports of beef have decreased in the decade nearly 60 per cent, while population has increased more than 21 per cent.

"It is, of course, a temptation to dispose of calves at the present very high prices, but reserving the heifers may mean greatly increased profits later under intelligent management. No increase over present production can be expected unless the breeding herds are enlarged, and this cannot be done unless the calves are retained for breeding purposes.

"Improvement in the stock is imperative, for under corn-belt conditions, with its high-priced lands, the scrub will have to give way to the better-bred, early-maturing kind that may be profitably turned into beef quickly.

"Moreover, worldly wealth via the meat-making route is the highest type of agriculture, for it maintains and increases the fertility of the land, enhancing its value to the farmer and to posterity."

Farmers who are holding wheat at some temporary financial discomfort should not overlook the plight of some of the wheat exporters of the United States. On the Kansas City market alone there are three export houses which have about \$15,000,000 worth of wheat in elevators and on cars sold for export to Europe. They have paid for the grain, but now these dealers cannot realize on it. To reship it to market would mean a loss, as freight expenses would be heavy. Some millers are in the same plight. Fortunately, however, they have relatively little flour blocked at seaboard exporting points. It is estimated that Kansas, Missouri, Nebraska and Oklahoma millers had \$6,000,000 worth of flour sold for export when the European war began. In addition, one Kansas City export house reports three cargoes of wheat which it had shipped to Germany seized by the British government. It hopes to receive payment for the grain, however.

The agricultural congress idea has taken a firm hold in St. Joseph. The first congress held in March, 1913, was so well attended and so much interest was shown that St. Joseph business men have determined to hold a second congress December 9 to 12 this year.

## ILLINOIS CATTLE QUARANTINED.

The Federal Department of Agriculture has just issued an order placing five counties in Northeastern Illinois under quarantine for bovine tuberculosis. This order is to go into effect October 1 and the governor of the state and the sanitary officials are actively cooperating with the federal authorities in making this quarantine effective. The counties included in the order are Lake, McHenry, Kane, DuPage and Cook.

Under the terms of this quarantine no cattle can be shipped from the five counties for dairy or breeding purposes unless they are accompanied by a certificate showing that they have been subjected to the tuberculin test and found free from disease. These certificates must be issued by an employe of the Bureau of Animal Industry, United States Department of Agriculture.

This federal quarantine has become necessary because of the fraudulent practice of a limited number of cattle owners and dealers operating in these border counties. Apparently these dealers have had sufficient influence to counteract every effort of the state authorities to control the shipment of tubercular cattle. They have been able to furnish health certificates from private veterinarians for cattle which were obviously diseased. Kansas has suffered to some extent from the evil practices of the dealers in this territory. While only a comparatively small number of Illinois breeders are included in this class, the whole state has been brought into disrepute. In the advertising of a big sale of Holstein cattle to be held in Kansas this month, the words, "No Illinois cattle here," were given a prominent place in the advertisement.

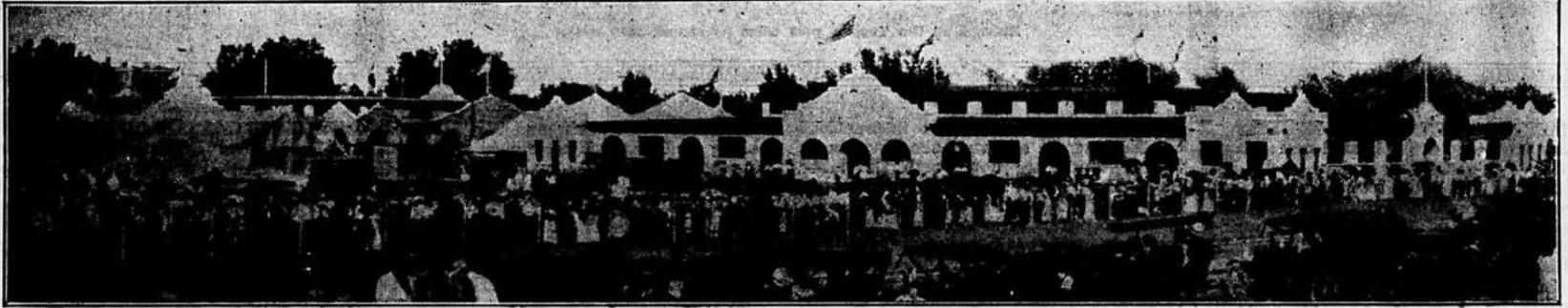
Twelve states, including Kansas, now refuse to accept Illinois cattle unless accompanied by a certificate from the federal authorities showing that the cattle have been properly tested and have failed to show a tuberculous reaction.

There are many excellent breeding herds of dairy cattle in Illinois, and those desiring to purchase cattle for shipment to Kansas and other states will appreciate this handling of the situation by the federal authorities. It may work a temporary hardship perhaps to the many honest breeders to be compelled to wait for federal inspection, but in the end not only will the Illinois breeder profit, but those outside the state will be able to safely buy breeding cattle from Illinois herds. The sooner Illinois cattle can be freed from any suspicion, such as has been cast upon them by the practices of these few cattlemen who have so grossly misused the privilege of private inspection, the better it will be for all parties concerned.

Those interested in silos and particularly those who desire to build silos in the ground—commonly known as pit silos—will be interested in the August, 1914, Southwest Trail, which may be had by addressing Room 718, La Salle Street Station, Chicago, Illinois. This paper is put out by that staunch friend of the Kansas farmer—H. M. Cottrell, who knows Kansas conditions as well or better than any other living man. The leading editorial by Mr. Cottrell closes with these lines: "The pit silo has made sure and regular profits from small farms in the dry-land districts of the Southwest. Any farmer—no matter how poor—can have one. Forage crops never fail in any year, wet or dry. They can be preserved any length of time in the silo in palatable form and with little loss. Silage provides feed any time it is needed—either in winter or in summer drouth. Silage fed to dairy cows with other dry-land feeds, insures a steady cash income every week in the year, from cream. The skim milk fed with dry-land grains, to pigs and hens, assures additional cash." The paper is profusely illustrated showing the methods of starting the excavation, building the silo walls and rim above the surface, the most convenient methods of removing silage therefrom, and in fact illustrating many other features of interest and value to the user.

# THE FAIRS OF KANSAS

Two Big Shows—Topeka and Hutchinson—During Third Week of September



VIEW ON GROUNDS KANSAS STATE FAIR ASSOCIATION, TOPEKA, DURING 1913 FAIR.—BUILDING IN BACKGROUND IS BRICK AND CONCRETE CATTLE BARN ACCOMMODATING 500 HEAD SHOW ANIMALS.—THIS TYPE ARCHITECTURE AND CONSTRUCTION USED IN THE HORSE BARN AND ARTS HALL.

**T**HE growth of the annual exhibition of the Kansas State Fair Association has been remarkable and is one of the outstanding fair successes of the country. The fair of this association will be held in Topeka, September 14-18 inclusive, and promises to excel all past efforts of this organization.

The association is a corporation, organized under the laws of Kansas. The people of Topeka and Shawnee County, and indeed of other counties, are the stockholders. Such are the public spirited citizens of the territory served by this fair and it is their ambition to maintain a fair of such proportions as will prove commensurate with the agricultural and live stock industry of the eastern half of Kansas and which in fact will reflect credit upon the entire state, and in this they have admirably succeeded. It is fitting that such an ambition should be possessed by the citizens of the capital city.

The grounds, seventy-six acres of rolling, wooded and bluegrass sodded land, are owned by Shawnee County. These are within five minutes' walk of the state capitol building. On these grounds have been expended \$150,000 in permanent improvements, all of which amount except \$50,000 voted in bonds by Shawnee County, have been contributed through stock subscriptions by the people of the county. In addition to the money expended in permanent improvements, a \$15,000 guaranty fund which is in the bank and which will take care of any possible deficit.

The money expended in buildings was used in the erection of modern brick and concrete cattle and horse barns, the type of architecture of which is shown in the picture on this page. Besides, modern swine and sheep barns were also erected. There is only one old building on the grounds, and that is the agricultural hall. This building, however, is so good and answers its purpose so well that there is no justification at this time for replacing it with another building. On the grounds is unquestionably the best half-mile race track in the West. This track has always held this reputation and it has not been difficult any year to secure for it all of the fast racers it was possible to accommodate.

This year's exhibition will be augmented by a horse show for the evening entertainment, this taking the place of the fireworks which have supplied the entertainment during past years. A pavilion brilliantly lighted and seating 5,000 people will accommodate the horse show this year. The leading stables of the West will compete for \$2,500 worth of prizes listed for this show. Among the entries are those of Miss Loula Long, the daughter of the millionaire lumber dealer of Kansas City, whose reputation extends far and wide. Other notable entries have also been made. These from St. Joseph and Columbia, Missouri, and Springfield, Illinois.

There will be no Midway on the grounds of this association this year, although there will be numerous clean, interesting and educational entertainments. These have been selected with great care. This year's exhibition has been built, as stated by Mr. Clark, as a "fair for farmers and not for fakery." The Midway on these grounds has for years been carefully censored but this year it was regarded that the room occupied by the Midway was needed.

It is not to be forgotten that a visit to Topeka, the capital of Kansas, affords much of interest and educational value other than that afforded by the fair. Every citizen owes it to himself and to his family to make a visit to Topeka at

least once a year, and there is no better opportunity than during the annual fair. The officers are T. A. Borman, president; Samuel E. Lux, vice-president;

successful fair at Hutchinson, was designated as the State Fair, although that association had for years been authorized by Kansas to issue premiums in the

legislature accepted the offer and passed a law providing for the management and control of such fair. The legislature did not, however, make any appropriation for the support of such fair and consequently is not behind the fair management in the payment of any liabilities incurred. So that while, in fact, this fair has been designated as the State Fair, nevertheless, it remains that it is still on a financial par with other fairs in the state because the state of Kansas has lent it no financial aid.

The citizens of Hutchinson following the enactment of the law, secured voluntary contributions to maintain the fair for the two years during which it must be conducted before the legislature could make an appropriation to take care of any deficit which might occur. While this guarantee was drawn on following the fair of last year, nevertheless, a portion of the sum remains to take care of any deficit which might follow the fair about to be held.

The Hutchinson papers have within the past few months called attention to the inadequacy of the buildings located on the Hutchinson grounds and have urged the necessity of asking the state to make such appropriations as are necessary to increase the housing facilities and at the same time erect permanent buildings in the place of those frame structures which have for years served for housing the several exhibits. It goes without saying that if the Hutchinson fair grounds are put in condition to maintain a state fair, that large sums of money must be expended in erecting new buildings and also a fund which will enable the State Board of Agriculture to build a fair which in proportion of exhibits and housing therefor is commensurate with the agricultural importance of Kansas. So it is practically certain that the next legislature will be asked to make such appropriation.

The board of state fair managers as provided by law is elected from the State Board of Agriculture, and this board at present is: F. D. Coburn, formerly secretary of the State Board of Agriculture; J. T. Pelham, secretary of the State Horticultural Society succeeding Walter Wellhouse, deceased; Thomas A. Hubbard, H. S. Thompson and O. O. Wolfe, succeeding George B. Ross, resigned.

The above board has delegated the management to an executive committee, as follows: H. S. Thompson, chairman; James Haston, J. B. Talbott, E. Hutton, D. J. Fair, J. E. Conklin and W. S. Thompson. A. E. Asher, Hutchinson, is treasurer, and A. L. Sponsler, Hutchinson, is secretary of the executive committee. Mr. Thompson is the only member of the State Board of Agriculture.

The fair to be held September 12-19 inclusive, is the second under the management of the State Board of Agriculture. It is the intention and the purpose to conduct a well balanced fair of educational value and affording opportunity for recreation and entertainment.

The program of the fair includes automobile racing on Friday and Saturday afternoons, September 11 and 12, and a horse show the four nights of 15 to 18 inclusive, together with a midway, numerous free attractions and Thavius' Band with grand opera singers. Racing will be held on September 14, 15, 16 and 17. Liberal premium offers are made in the cattle, horse, hog, sheep, poultry, farm products, horticultural and other departments, and a cordial invitation is extended to all both within and without the state to attend this fair.



HORSE BARN, KANSAS STATE FAIR, HUTCHINSON, AND SCENE OF 1913 FAIR.



AGRICULTURAL HALL, KANSAS STATE FAIR, HUTCHINSON, SCENE 1913.

Scott Hopkins, treasurer; G. E. Clark, secretary.

**THE KANSAS STATE FAIR, HUTCHINSON.**  
By act of the legislature in 1913 the Central Kansas Fair Association which has for a number of years held a suc-

cessful fair at Hutchinson, was designated as the state fair. The officers of the above association at the last session of the legislature tendered the state a portion of its grounds with the improvements thereon in consideration of naming theirs as the state fair. The legis-

## You Should Attend The Fair

**T**HE agricultural fair is designed for educational and social improvement. The various exhibits afford the educational features. The social benefits are developed by the individual attending—and the social side is too important to be overlooked. At the fair farmers and their families—as well as town folks—meet friends and relatives and form acquaintances among people living in other parts of the country.

People meet at the fair who seldom see each other throughout the rest of the year. This chance to renew acquaintances and friendships and to meet strangers of course, is a splendid thing. A wide acquaintance is a broadening factor in the life of any person and the farmer needs such an influence as much as any one.

The fair deserves the patronage of every individual who can reach it without incurring upon himself an absolute hardship. A fair is an advertisement for the contiguous agricultural territory which cannot be displaced by another institution. It is the mirror in which is reflected the agricultural and live stock advantages of the community or state. The value of farm lands depends largely upon what these lands can be made to produce. The fair shows to the world what that production is and so encourages immigration, creating a demand for the products of the locality and for the land itself. To be successful—to live, in fact—the fair needs your assistance. You need what the fair has to offer.

Here is hoping you will attend the fair.

# KANSAS HOSTESS FOR WORLD

*Delegates and Exhibits From Every Clime at Dry Farming Exposition—Wichita*

By R. H. FAXON

**K**ANSAS, the theater for a half generation of big events, is sustaining its reputation and position this year. It is fitting that the greatest agricultural state in the Union should entertain agricultural gatherings and see to it that the forward procession in modern, scientific agriculture does not lag.

Four events in one at Wichita, the great Kansas city on the south border, October 7-17 this year, comprise the most significant offering in the name of agricultural education that it has yet been the good fortune of the state to secure. These four events cluster around the ninth session of the International Dry Farming Congress. The companion-pieces are the International Congress of Farm Women, the International Soil Products Exposition, and the Fourth Annual Wichita Fair and Exposition.

**WHAT THE CONGRESS IS AND DOES.**  
What the Congress is and does are these: It is a voluntary agricultural organization, the greatest in the world, with a membership of more than 5,000 persons. These inhabit every clime and civilized nation; though of course the greatest number live in the western portion of the United States and the provinces of Canada. But the membership is in forty nations of the world, which is enough to show the catholicism of the modern agricultural propagatory movement.

Once a year the Congress meets in its sessions, usually for a period of four days, when men come together to discuss, to exchange ideas and experiences, to see, to tell, to learn, and to carry away impressions and practical ideas.

The sessions of the Congress have been held in many western states and large cities, competent to care for such a gathering as this, and patriotic enough to help carry on the necessary voluntary work. Sessions have, for instance, been held in Denver, Salt Lake, Cheyenne, Spokane, Colorado Springs, Lethbridge, Alberta, Tulsa, and now Wichita.

#### KANSAS MADE HOSTESS.

At Tulsa, last October, Doctor Henry J. Waters, premier of Kansas agricultural workers, president of the Kansas Agricultural College, and later appointed by President Wilson to make agricultural and educational research in the Philippine Islands, was selected president of the Congress. It was a great compliment. It was doubtful for a time whether Doctor Waters would accept the responsibility. He finally indicated he would do so, and also that he would like the Congress to come to his own state during the year of his incumbency in office.

So Wichita arranged for the 1914 sessions and immediately set to work. It raised in the beginning a cash fund of \$10,000 with which to finance the Congress work and offices for the year. That was the first step.

Then Wichita assumed the great International Soil Products Exposition, which always goes with the sessions of the Congress. This brought the assumption of approximately \$35,000 additional expense.

#### TWENTY-FIVE COUNTIES PARTICIPATE.

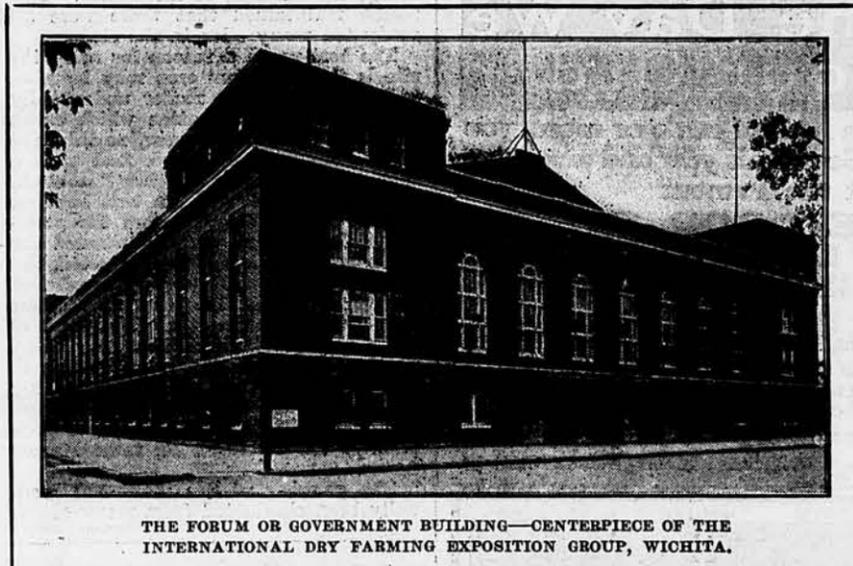
The state of Kansas has been organized in the most thorough manner. Kansas will derive great satisfaction and good results from the main event when it shall have ended. Twenty-five Kansas counties—Allen, Barber, Butler, Cowley, Crawford, Ellis, Finney, Ford, Gray, Greenwood, Harper, Harvey, Kingman, Kiowa, Lyon, Montgomery, Neosho, Pawnee, Pratt, Reno, Rice, Riley, Sedgwick, Shawnee and Sumner—patriotically assumed for the rest of the 105 counties of the state the duty of saying to the world at Wichita in October: "Here stands Kansas; observe her."

The burden was not great, but the duty was material. Each of these counties agreed to a small percentage to erect the Kansas Counties building, which is one of the eight of the Exposition group, and to maintain a space of 16 by 30 feet in such style and manner as would permit the entire state to be proud of the showing made in the presence of the United States government, the foreign countries, the Canadian provinces, the states of the West, the great railroads, and the hundreds of individual exhibitors. This great work was performed under the direction of a committee of three Wichitans, members of the Kansas Board of Control, W. C. Edwards, chairman, John L. Powell and J. H. Stewart. The brunt of the work fell upon Chairman Edwards, whose great energy and love for Kansas have led

him to perform a wonderful achievement. He was assisted in the work by R. H. Faxon, secretary of the Congress and of the Kansas Board of Control. Mr. Edwards has lived nearly forty years in Kansas, mostly in Larned. He has been active in public affairs, having been in the legislature several terms, twice secretary of state, and twice postmaster of Wichita. He has also built railroads and otherwise engaged himself as a man of affairs. John L. Powell is one of Wichita's foremost citizens. He is a wholesale dry goods merchant, always active in civic affairs, has fought many transportation battles for the Southwest, and is vice-president of the Trans-Mississippi Commercial Congress. J. H. Stewart has been twice in the Kansas state senate as a useful legislator, is vice-president of the Farmers & Bankers Life Insurance Company, vice-president of the National Bank of Commerce, and always an official of the great commercial bodies. Thus Kansas work has been in good hands in connection with the great Wichita gathering in October.

#### EIGHT EXPOSITION BUILDINGS.

Previously it has been said that the Exposition group comprises eight buildings. Besides the Kansas Counties building, these are: The Government building, the Industrial building, Agricultural and Horticultural hall, the Model Dairy building, the Interstate building, the Foreign building, and the Railway building. Of the eight Exposition buildings, three are permanent. The centerpiece is the great Forum, Wichita's pride.



THE FORUM OR GOVERNMENT BUILDING—CENTERPIECE OF THE INTERNATIONAL DRY FARMING EXPOSITION GROUP, WICHITA.

This is a modern, municipally-owned structure, 150 by 300 feet. It will largely house the government exhibit alone, though a portion of it is reserved for standing and seating space for the hundreds and thousands who will hear short talks and enjoy the free high-class vaudeville entertainment for two hours each afternoon and evening, and where the famous Kilties Band of Canada will give a sacred concert Sunday afternoon, October 11.

The Industrial building is, in everyday life, the Forum annex, of even larger proportions than the Forum itself. The Kansas Counties building comes next to the north, 150 by 160 feet; and joining it is the Interstate building, to house ten states of the West—Arizona, Colorado, Oklahoma, Texas, Nebraska, North Dakota, New Mexico, Wyoming, Montana, Arkansas. The Model Dairy building is also a permanent building, 125 by 150 feet, and will house the famous dairy herd of the Kansas Agricultural College, other famous cows, and a magnificent display of dairy accessories and appurtenances. Herein, government, state and city tests of milk will be made daily for the education of the public; and short talks and lectures given by specialists.

The Foreign building will house the Canadian exhibits, those from Australia, Palestine, Spain, China, Argentine, Cuba, and a number of others. Exhibits from Russia and Belgium have of course been interfered with on account of the war, though Russia has a fine showing of products in this country already which it is thought will be assembled at Wichita.

The Industrial building will house commercial and industrial exhibits, such

as usually form a significant part of the annual Wichita Fair and Exposition.

Agricultural and Machinery hall is for the use of individual agricultural and horticultural exhibitors, and its assemblage will be notable.

The Exposition group is located but two blocks from the business heart of Wichita, and the buildings, both those of permanent and temporary type, are slightly, convenient, comfortable, and fine in every way.

Across the Arkansas River, which runs near the Exposition grounds, will be used a sixteen-acre tract for demonstration purposes by machinery and implement concerns, silos, etc. This will be an important phase of the Congress and Exposition.

Immediately in the rear of the Forum and Exposition group is the wonderful Machinery Row, the two blocks of Wichita street occupied by machinery and implement men as offices and branch houses. This will be alive with action during the Congress and Exposition.

#### PREMIUMS AGGREGATE MORE THAN \$10,000.

For the Exposition there is offered a magnificent showing as to premiums. These consist of agricultural and machinery articles, ranging in value from \$25 to \$500, and topped by a prize collection of hay balers, gasoline and kerosene engines, and groups of farm machinery from many of the best known houses in the country. The total array of premiums aggregates more than \$10,000.

Included in the list of premiums are

several cups and silver trophies of value and pride to the winners. The finest one of these is that of the Chicago Association of Commerce, valued at \$300, which is to go to the best state exhibit, Kansas excluded. Among others offering cups are the Pueblo Commerce Club, Pueblo, Colo.; the Wichita Business Association; Arthur Capper, Topeka; Edward Vail, Wichita; the Gem State Rural and Live Stock Journal, Caldwell, Idaho; the Twice-a-Week Spokesman-Review, Spokane; Brooms, Brushes and Handles, Milwaukee.

A number of fine cash premiums are offered. KANSAS FARMER is covering the sweepstakes on grain sorghums, \$75. The Arctic Ice & Refrigerating Company, Wichita, offers a total of \$100 in cash on apples; and the Wichita Ice & Cold Storage Company offers \$50 on apples. The Wichita Clearing House Association gives \$50, and so does the Wichita Board of Trade.

Among the larger donors of machinery and implements are: International Harvester Company of America; John Deere Company; Rumely Products Company; Montgomery Ward & Company; De Laval Cream Separator Company; Sharples Separator Company; Moline Plow Company; Parlin & Orendorff Company; Ann Arbor Machine Company; American Seeding Machine Company; Simplex Spreader Company; Woods Brothers Thresher Company.

The Coleman Lamp Company of Wichita gives one of the finest premiums of all, from the standpoint of modern usefulness—a complete home lighting system for the farm, at a value of \$100. In addition to that it is offering more than \$100 in individual lamps.

With the sessions of the International

Dry Farming Congress will be held those of the International Congress of Farm Women. This organization, headed by Mrs. Belle Van Dorn Harbert, Manzanola, Colo., a woman of great initiative and force, and whose secretary is Mrs. Mary Pierce Van Zile, dean of domestic science at the Kansas Agricultural College, Manhattan, will bring together several hundred serious and studious women anxious to ameliorate industrial and social conditions among rural women. Their program will be a very sane and thoughtful one, with a number of splendid authorities on these subjects.

Sessions of both the International Dry Farming Congress and the International Congress of Farm Women will be held in the great Consistory building in Wichita, the finest home of Masonic bodies in the West. Its spacious auditorium will be given over to sessions of the Women's Congress. The sessions of the Dry Farming Congress will be held in the great banquet room of the Consistory.

#### PROGRAM FEAST OF REASON.

The program will be a notable one. Opening on Monday morning, October 12, with a parade in which the Boy Scouts, the famous Kilties Band of Canada, a battalion of Kansas National Guard, Congress and Exposition officials, city and county officials, and the Governor of Kansas and his guests, the Governors of several western states, will participate, there will be the usual preliminary program during the forenoon. In the afternoon there will be a notable session—the roll call of states, when some representative of agriculture in each state will briefly tell of the progress in dry farming and agriculture. Monday night will be Governor's night, Gov. George H. Hodges of Kansas presiding, when the several western governors will make brief addresses.

Tuesday morning, October 13, will be Live Stock session. Dean E. A. Burnett of the Nebraska College of Agriculture will be in the chair. There will be a number of excellent talks, among them those of George M. Rommel of the Bureau of Animal Industry, United States Department of Agriculture; Dr. J. B. Rutherford, Live Stock Commissioner for the Canadian Pacific Railway, and said to be the most expert live stock authority in Canada; and Colonel Isaac T. Pryor of San Antonio, Texas, former president of the Trans-Mississippi Commercial Congress and of the Texas Cattle Raisers' Association. W. A. Cochel of the Kansas Agricultural College will be the Kansas representative on the program.

Tuesday afternoon will be given over to a general program, among the speakers being: Charles S. Glead of Topeka and Kansas City, director of the Santa Fe Railroad; H. W. Vogt of the United States Bureau of Education; Minister W. R. Motherwell of the Saskatchewan, Canada, Department of Agriculture, and past president of the Congress.

Tuesday night will be devoted to a conference on Marketing and Rural Credits, with Dr. T. N. Carver, of the Office of Rural Organization, United States Department of Agriculture, as the premier speaker. Professor Edwin L. Holton of the Kansas Agricultural College will be in the chair. Other speakers will be E. Dana Durand, former director of the United States Bureau of the Census, and now professor of economics in the Minnesota University; and Charles J. Brand, chief of the Office of Markets, United States Department of Agriculture.

Wednesday morning will be devoted to Crops and Soils, with Dr. John A. Widtsoe, president of the Utah Agricultural College, past president of the Congress, and author of a famous book on dry farming, presiding. Carleton R. Ball, cerealist, and C. V. Piper, agronomist, of the Department of Agriculture, and John Bracken, professor of field husbandry, College of Agriculture, Saskatoon, Alberta, Canada, will be the principal speakers.

Wednesday afternoon will be a general program, largely devoted to farmstead irrigation, with State Irrigation Engineer H. B. Walker in the chair. R. H. Forbes of the Arizona Experiment Station and H. M. Bainer of Santa Fe demonstration work in the Southwest will speak. Following the irrigation program there will be a general discussion, participated in by Charles Dillon on good roads, a Canadian representative not yet determined, and probably President W.

[Continued on Page Twenty-Three.]

# SEVERAL SILO INQUIRIES

The Weeks Mail Indicates Wide Interest in Matters Pertaining to Silo

OUR reader, C. G. M., of Osborne County, writes that grain will be very scarce and high in this section this winter and wishes to know if it would do to feed horses silage in the place of grain. This question has been discussed a number of times during the past year in KANSAS FARMER. Silage is essentially a roughage feed and cannot be expected to take the place of grain to any great extent. During the season of the year when horses have little or no work to do, they do not need much grain, provided they receive a palatable, well-balanced roughage ration. Silage has been fed to horses very successfully by a great many farmers during the winter season when they were not performing much work. It is never advisable to keep horses on silage alone.

Horses are much more susceptible to mouldy and spoiled feed than other animals and for that reason great care must be exercised that no spoiled or moldy silage is fed. Quite serious results have followed the feeding of silage to horses in a number of instances. Apparently these fatal results have been due to feeding of mouldy silage.

Horses should not be brought onto the silage ration too abruptly, but should be gradually accustomed to it by beginning with rather small amounts. Horses should never be expected to consume the large amounts of silage that a cow or steer can satisfactorily handle.

The experience of those having fed silage to horses would be of value to readers of KANSAS FARMER and letters detailing such experience would be greatly appreciated by our readers.

### Why Build Silos?

One of our readers recently inquired why KANSAS FARMER persisted in advocating the building of more silos. This reader maintained that there were already too many silos in the state.

The best possible reason for using the silo is that the corn crop may be more fully utilized. This reader undoubtedly has in mind the situation which exists in many sections this year, namely, the great abundance of rough feed with a shortage of cattle and other live stock. Prof. W. H. Henry in his text book on "Feeds and Feeding," makes the statement that where corn is planted for grain only, the forage being wasted, and where straw stacks and other rough feed slowly rot in the fields and yards, there is no place for the silo. The point of the statement is that where no effort has been made to develop a system of live stock farming where mouths are waiting for all the feed the farm will grow, the silo is not needed. That is perhaps the condition on some Kansas farms.

The growing of live stock has gradually been eliminated from many of our

farms or else never has been followed, and as a result in favorable feed years there is more roughage available, even when handled in the ordinary manner, than is needed. This is not an ideal system of farming. Under present-day conditions the live stock farm from now on is almost certain to be the farm returning the largest amount of revenue in proportion to the acres involved. This is more and more apparent as the effects of long-continued grain farming begin to show in diminishing yields. The farm where live stock has been judiciously handled is invariably a better producing farm than one where live stock has not been used as a means of marketing the bulk of the crops.

We were recently taking a drive through the eastern edge of Pottawatomie County and has this point most forcibly demonstrated by the appearance of a field of corn along the road. This field of corn was noticeably ranker and gave evidence of producing a much larger yield than any field we had noticed in some miles. Nearly all the fields were showing seriously the effects of the dry weather, but this field still remained green and almost every stalk had a good big ear of corn well past the roasting-ear stage. The difference was so marked that we made special inquiry as to the history of this particular field. We found that this small 80-acre farm had always handled considerable live stock. This particular field had been for several years in clover and tame grass; barnyard manure had been spread in abundance and the condition of the corn gave evidence of the fertility of the soil and its ability to hold moisture and withstand the drought when other fields were suffering. On many farms in Eastern Kansas the steady decline of the yields of corn per acre can be attributed to no other cause than failure to keep enough stock on the farm to eat up the roughage and return its value in fertility to the soil.

Even though there may be an abundance of feed handled by old-time methods to winter the stock on hand, the storing of a good surplus in the silo is most excellent insurance against a shortage of feed next year. The ups and downs of the live stock business are largely brought about by the uncertainty of having an abundance of feed. Every year in which there is a shortage of feed, stock must be sacrificed, and possibly with a good year following it is impossible to secure stock to consume the feed which is grown. The silo will even up this condition. The man with a good reserve of silage on hand is always in a position to take advantage of whatever may turn up in connection with the handling of live stock. The farm with the silo is essentially a better live stock farm.



We make farm loans in Kansas north of the Kansas River, and in Southern Nebraska, for one of the largest and best insurance companies in the world. Write us for rates. THE STITT-COLLINS MORTGAGE CO., 561 New England Bldg., Topeka, Kan.—(Adv.)

## COLEMAN GAS LANTERNS

The all 'round lights for all around the farm—solidly built, sure-burning lanterns furnishing 300 candle power of good strong brilliant steady light any time, anywhere you want it—lanterns that will make your "after-dark" work in the milking pen, feed-lot, hay-barn, cellar, shed, etc., easier, quicker and safer.

Most easily operated lanterns made. Make and burn their own gas. No wicks, no chimneys, no smoke, no soot, no flicker. Can't explode, can't spill, can't break, can't clog up. Won't leak. Won't blow out. Won't go out even if tipped over. Are storm-proof and bug-proof. Are arranged for hanging, standing or carrying. Fill them only once a week, clean them only once a year.

Give more light at less cost than twenty oil lanterns. Are guaranteed for five years. Send for full particulars and prices.

### Agents Make Lots of \$\$\$ This Winter

Selling Coleman Lanterns and Lamps to your neighbors. Call on them evenings and demonstrate. Every farmer needs one. Every lantern its own salesman. Show it and it sells itself. Experience not necessary. Easy, pleasant work with big profits. Have agents making as high as \$40 and \$50 per week now.

Field hardly touched. Exclusive territory. We back you up, assist you and show you how to win. Send postal today for catalog. Success assured from the start. Write to nearest address of

**COLEMAN LAMP COMPANY,**  
225 N. St. Francis St.,  
Wichita, Kan.  
276 E. Sixth St., St. Paul, Minn.  
1021 Summit St., Toledo, Ohio  
419 Akard St., Dallas, Texas.

## We Can Ship Your Silo the Day We Get Your Order

If you have ten head of cattle or more, you need a silo. Get it this year and save \$400 or more. Get the Famous

### HINGE-DOOR SILO or the LANSING SILO

The SILBERZAHN Ensilage Cutter

Convenient, Durable and Light Power  
We can ship upon a moment's notice  
See Us at the State Fair  
Address Dept. 21

**Beatrice Creamery Co., Topeka, Kan.,**  
**or Woods Bros. Silo & Mfg. Co., Lincoln, Nebraska**

**555 MEMBERS IN MESSIAH CHORUS.**

College, Academy and Normal. Not a single failure in eight years at the state examinations, is our unequalled record for thoroughness. Small classes—an experienced and successful teacher for every 12 pupils—account for our unusual success.

**Music.** Faculty of 22 specialists. Thorough courses in Piano, Voice, Viola, Organ, Cello, Theory, Cornet, Clarinet, Public School Music. Free instruction in Messiah Chorus, Band and Orchestra. Famous Messiah concerts every Easter.

**Expression and Dramatic Art.** Thoroughly equipped, this department offers the highest advantages to students in Oratory, Expression, Physical Culture and allied subjects.

**Business.** One, two or four-year courses. Also short courses. Individual instruction. Unexcelled opportunities for securing a thorough business education.

Ask For a Catalog. Term Begins Sept. 8.

**Painting.** Thorough instruction is given through the media of oil, water colors, charcoal, crayon, pencil, India ink and sepi.

**Domestic Science.** This department has a building of its own. The equipment is new and modern. Long and short courses.

**Plumbing.** Practical instruction by an expert in tinning, toning, voicing, regulating and repairing.

**Tuition Law.** Board \$2.75 a week. Many free advantages. Enter any time. 814 students last year. Write for free catalog, mentioning department in which interested. Address

**ERNST E. PHILBLAD**  
President  
Lindsborg, Kansas

**Shorthorn Cattle Sale.**

On Tuesday, September 22, at Girard, Kan., Adam Andrew and Fred Cowley will sell forty head of useful Shorthorn cows and heifers and ten big strong bulls. The cows and heifers will be bred to two great herd bulls, Orange Major and Ingle Lad Jr. Orange Major is by Orange Viscount (twice an American Royal winner), by Lavender Viscount Orange Major; is also a half brother to Orange Model, now used by W. A. Bettridge. Orange Model is the sire of Orange Clipper and Clipper Model, two bulls used in Kansas herds. Ingle Lad Jr. is by Ingle Lad by imported Collynie and out of Sweet Mistletoe. The offering is one that any breeder should be pleased to invite the public to buy. The cattle have not been pampered, but have had good pasture and are in good breeding condition. They are a

**BINDER ATTACHMENT** with corn harvester cuts and throws in piles on harvester or in rows. Man and horse cut and shock equal with a corn binder. Sold in every state. Price only \$25.00 with feeder-binder. F. D. Borne, Harwell, Colo., writes: "Your corn harvester is all you claim for it; cut, shed and shocked 60 acres of corn, oats and clover last year." Testimonials and catalog free, showing pictures of harvester. Address **PROCESS MANUFACTURING CO., Olathe, Kansas.**

useful lot of cows and two-year-old heifers. All the cows will either have calves at foot or be bred. The heifers are all bred to the herd bulls mentioned. Please read ad and send for catalog and arrange to come to the sale. You can make no mistake if you buy from this offering. Kindly mention Kansas Farmer when you write.

Railroad Fare Refunded to Out-of-Town Customers.

## Warren M. Cosby & Co.

The Store of Dependable Merchandise.

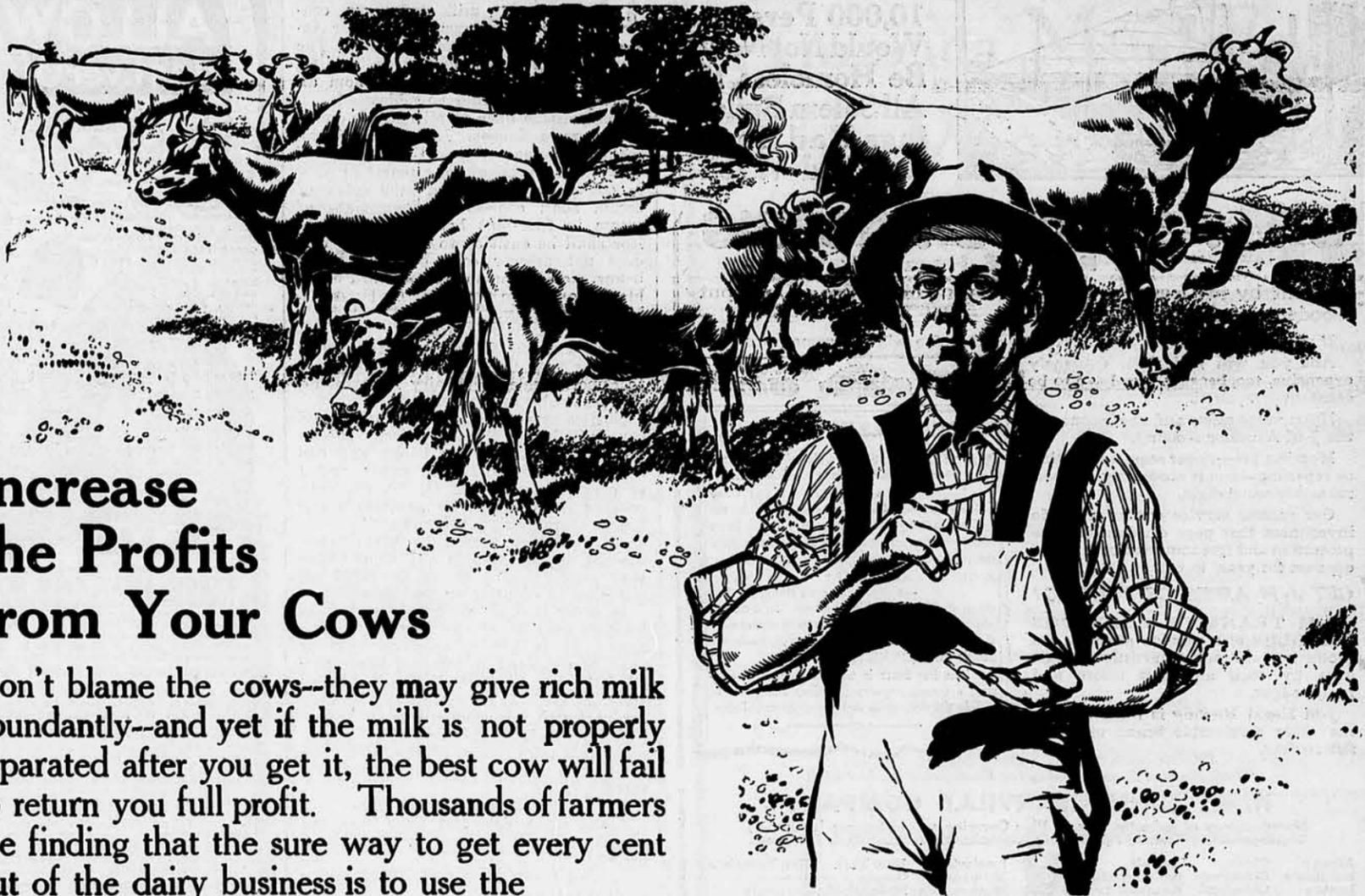
"Off With the Old, On With the New."

Visitors to the Big Fair at Topeka will be delighted with our CLEARANCE PRICES on all summer goods, as well as the splendid assortment of New Fall Ready-to-Wear Garments, Dress Goods, etc.

Just as examples of the remarkable values arranged for FAIR WEEK, note specials below:

<p><b>Silk Special.</b></p> <p>Twenty-five pieces of 21-inch new Silk Foulards, very attractive colors, silks that were made to retail at 65 cents per yard, choice..... <b>37c</b></p>	<p><b>Dress Goods Dept.</b></p> <p>Ten pieces, all wool, 44-inch Crepe Granite, the very latest in dress goods; colors, navy, pigeon, black, mahogany and plum. Never before sold less than \$1.00 yard..... <b>79c</b></p>
---	---

Mail Orders Filled Promptly, Sent Charges Prepaid.



## Increase the Profits from Your Cows

Don't blame the cows--they may give rich milk abundantly--and yet if the milk is not properly separated after you get it, the best cow will fail to return you full profit. Thousands of farmers are finding that the sure way to get every cent out of the dairy business is to use the

# Beatrice Cream Separator

### *Farmer Onswon says:*

I've been up one side and down the other of this cream separator question for 20 years, and I'm for the Beatrice Cream separator every time.

**The Beatrice is the one high-grade separator that is sold at a reasonable price.**

We all have some respect for our pocketbooks. None of us farmers want to pay out \$100 to \$125 when we can get the same thing for \$65 to \$85.

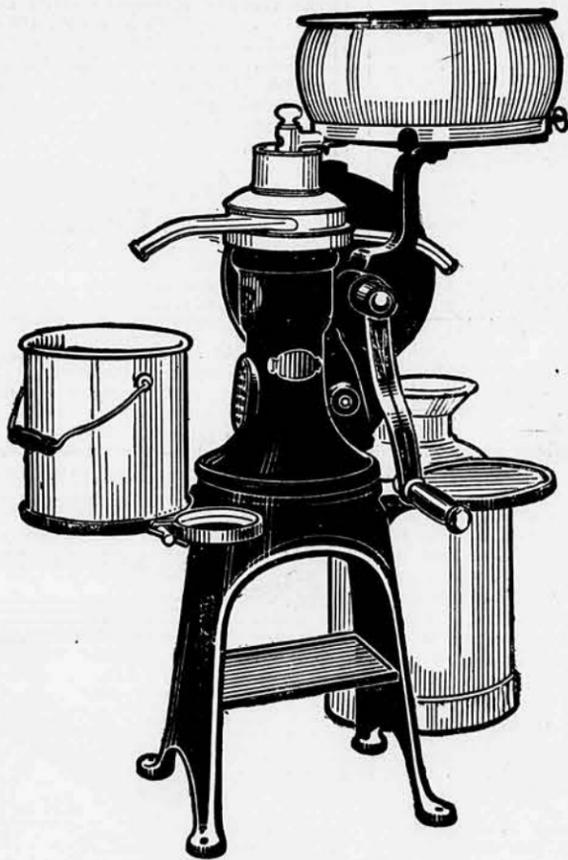
Well, that's the cream separator situation. The Beatrice sells at \$85 for the largest size machine, 1,000 lbs. capacity. Other high-grade separators sell for \$110 and upwards for less capacity.

You may say you'd be willing to pay more if you got more. But there's the point, you don't get more for your money—you don't get as much.

**The \$85 Beatrice Cream Separator gives you every quality and advantage you get in any other separator at any price, and some you cannot get in others.**

The advantages are clean skimming, easy cleaning, easy running, convenience, long life, big capacity. Skims warm or cold milk.

Compare other machines with the Beatrice; you'll agree with me that you pay more for them than the Beatrice price, but you do not get as good a machine for your money.



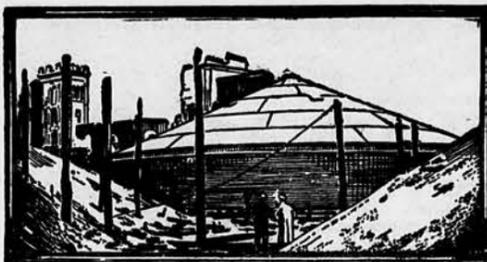
**Take Farmer Onswon's Advice and Investigate the BEATRICE. Write to nearest office below for free catalogue and name of local dealer near you.**

## Beatrice Creamery Co.

TOPEKA  
Chicago  
Dubuque

Des Moines  
Denver

OKLAHOMA CITY  
Lincoln  
Beatrice



**10,000 Persons  
Would Not Now  
Be Homeless If  
All Salem Build-  
ings Had Been  
Roofed With**

**J-M ASBESTOS ROOFING**  
"The Roll of Honor"

Profit by the lesson of the great Salem, Mass., fire. Don't put wooden shingles on your buildings!

If you do, you will have to trust to luck that fire will not come your way.

And you will find them extremely expensive, too, because they have to be constantly repaired.

If you value safety and real economy, use J-M Asbestos Roofing.

It resists fire—never requires painting or repairing—and is absolutely and permanently water-tight.

Get roofing service out of a single investment that pays dividends in fire protection and freedom from bother and expense for years to come!

**GET J-M ASBESTOS ROOFING!**

J-M TRANSITE ASBESTOS SHINGLES also provide absolute fire protection and add to artistic appearance by their attractive colors and rough edges.

J-M Regal Roofing is recognized as the most serviceable brand of wool-felt roofing.

Write Nearest Branch Today for Descriptive Booklet 4280

**H. W. JOHNS-MANVILLE COMPANY**

Manufacturers of Asbestos Stucco; Pipe Coverings; Cold Storage Insulation; Water-proofing; Sanitary Specialties; Acoustical Correction; Cork Tiling, etc.

Albany	Chicago	Detroit	Louisville	New York	San Francisco
Baltimore	Cincinnati	Indianapolis	Milwaukee	Omaha	Seattle
Boston	Cleveland	Kansas City	Minneapolis	Philadelphia	St. Louis
Buffalo	Dallas	Los Angeles	New Orleans	Pittsburgh	Syracuse

THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED  
Toronto Montreal Winnipeg Vancouver

**The Shingle World.**

**SHINGLES TO BLAME**

MASSACHUSETTS is still bending a thoughtful brow over the ruins of Salem.

Everybody agrees that the one thing which contributed most to the spread of the fire was—shingles. House after house burst into flame the instant the rain of sparks touched the tinder-like shingle roofs.

—a dry, weathered shingle makes about the finest kindling known. In a closely populated town a brisk wind carries flames over shingle roofs as fire sweeps over sunburnt prairie grass.

The Bay State is using the Salem fire to start a strong argument against shingles. It will do the rest of the country no harm to listen.

**LEARN MILK QUALITY**

**D**AIRYMEN will be interested in the market milk and cream contest of the Kansas State Fair Association, Topeka, September 14-18. The contest is in charge of George S. Hine, state dairy commissioner, to whom all correspondence should be addressed.

Competition open to all milk or cream producers in Kansas. Each producer can make but one entry. Each entry of milk shall consist of four quarts of milk in one-quart bottles and each entry of cream shall consist of four pints of cream in four-pint bottles. No exhibitor shall be entitled to a premium who does not answer each question asked below, sign his name, and forward entry blank to George S. Hine, K. S. A. C., Manhattan, Kan.

**HOW TO COMPETE.**

Milk entered to compete for prizes must be sent by prepaid express direct to Superintendent of Dairy Department, Fair Grounds, Topeka, Kansas.

Bottles must be carefully packed and caps should be sealed, making bottles air-tight. Both top of bottle and cap should be protected with paper, metal or other material and all covered with crushed ice sufficient to maintain a low temperature during shipment.

All packages should be plainly addressed on the outside and should also bear sender's card so as to avoid all mistakes in identifying packages.

In order that all milk entered by exhibitors may be of the same age when scored, it is hereby specified that it shall be produced on Sunday, September 13, 1914, and be shipped or delivered as above directed at once; this is necessary for perfectly fair competition.

A representative of the Dairy Department will take charge of the milk upon its arrival and see that it is properly cared for.

**QUESTIONS TO BE ANSWERED.**

1. On what day and hour was the sample of milk entered in this show, drawn?
2. How many cows contributed to the sample entered?
3. Are these cows grades or pure-bred? If pure-bred, please state breed.
4. What kinds of feed were fed during the week preceding the day the sample was taken?
5. Were the cows cleaned previous to milking? If so, how?
6. Were cows in stables or out of doors at time sample was drawn? If in stable, how is same cared for?
7. What precautions are taken by milkers as regards cleanliness of clothing and hands?
8. What kind of milk pail was used?
9. How were pails cleaned previous to use?
10. What method of straining was followed?
11. How soon was milk cooled after being drawn from cows?
12. Have you a milk cooler? If so, describe it.
13. To what temperature was milk cooled?
14. Give date and hour when milk was or will be shipped.
15. Have you previously exhibited milk at any local, state or national show?

I, \_\_\_\_\_, do hereby declare each and every statement in answer to the above questions to be absolutely true. I do furthermore declare that the milk submitted by me in this contest is the natural product, free from any preservatives, and that it has not been heated or changed in any way. (Signed) \_\_\_\_\_

**Figuring Value of Silage per Ton.**

A Franklin County subscriber asks what he should charge per ton for silage.

This is another one of those questions which it is difficult to answer because of lack of information as to the kind of silage—whether it be cane, kafir, or corn, and if of the latter two, what amount of grain is contained therein. Aside from these considerations the price at which our subscriber can afford to sell the silage depends upon the price at which clover, wild hay, or alfalfa is selling. There is a well defined relation between the value of silage and the value of these hays and which is governed by the amount of feeding nutrients contained therein.

In general, the producer of silage and whose purpose it is to sell such silage or to arrive at its value per ton as compared with the value or selling price of other roughages, should consider these points: The cost of putting up the silage, the interest on investment in silo and cutting machinery and the depreciation thereon, and the market price of the corn in the silage, and in addition the actual feeding value of the roughage itself as compared with the feeding value of other roughages. In Kansas we believe, as indicated by our correspondence

**Greatest Bargain  
ALLOWAY  
Has Ever Offered**

**G**reatest Bargain... Think of it—a real, well-made, easy to operate, Portable Elevator, only \$79.50—just about half what others charge for the biggest fac-turing sensation ever offered. It puts an elevator in everyone's reach. It's no longer a luxury that on account of high prices only a few could afford. Farmers who have seen it wonder how I can make it so good and sell it so cheap. Let me tell you why.



only one small manufacturing profit.

**THROW AWAY YOUR SCOOP!**

It's a back-breaker, an instrument of torture. My Portable Elevator saves time—30 minutes to an hour on every load cribbed, which gives you that extra time in the cornfield and thereby pays for machine first year and makes you money. Adds years to your life.

**Guaranteed As Good As Any Better Than Most**

The Galloway Portable Elevator is no experiment; it's tried and tested—guaranteed—backed by a \$25,000 bond. Sold on 30 to 60 days' trial with the understanding that if it's not all we claim, if it fails to work as good as any you ever saw or tried at any price, I will take it back and pay the freight both ways.

Better still. I have 5 selling plans—cash or credit—which makes it still easier for you to own an elevator. Don't buy any make or kind until you first get my proposition. Write today for illustrated circular and full particulars about the elevator that's creating a sensation everywhere. Address **WM. GALLOWAY, President, WM. GALLOWAY COMPANY, 218 Galloway St., Waterloo, Iowa**



**Ash Grove Cement**

**Corn Cribs and Granaries**  
Concrete granary and corn crib floors stop loss by rats and mice, and help to eliminate these pests. On page 83 of our 112 page book "Permanent Farm Improvements" are plans for building concrete floors. Save money and do better work by using

**Ash Grove Cement Saves You 20%**

ASH GROVE is ground finer and contains 20% more of the finest particles which alone have cementing value. Four sacks give the same result as five sacks Standard Ground cement. Ask your dealer for ASH GROVE.

**Write for Free Book**

It contains illustrations, descriptions, plans and quantities of material required for over 75 concrete farm structures. Full information about cement.

**ASH GROVE LIME & PORTLAND CEMENT COMPANY**  
702 Grand Avenue Temple  
Dept. H., Kansas City, Mo.

**If You Want a Square Deal Write Us**

We want you to know about Square Deal Fence; why it's better, why it will last longer, why it costs less to put up, why it stays trim and tight the year round.



Keystone Steel & Wire Co.  
729 Industrial St. Peoria, Ill.

**A GREAT LOSS**

**KANSAS PEOPLE LOSE \$9,694,198.**

**Astounding Fact is Learned in Figures on Loss of Live Stock by Death and Accident**

During the year 1911 the loss of live stock in Kansas by death from diseases amounted to \$9,694,198. The amount of loss sustained annually through the loss of domestic animals from such causes exceeds the state's fire loss by more than 100 per cent. From carefully tabulated records over several years, it is indicated that one animal out of every twenty is lost.

**We Want You To Help With This Problem We Have The Solution—Here It Is:**

INSURANCE against loss from practically every cause, excepting alone the awful waste by disease mortality of live stock, generally obtains, and, since the proportions of the latter have come to be more fully realized, demand for protection against its hazard has increased.

That danger of excessive losses from such cause constantly menaces live stock owners has been amply demonstrated in three out of the last ten years. No such owner can realize immunity from such handicap excepting through insurance against the same, the cost of which cannot be less than the average rate of such loss annually sustained by a large number of such owners.

The STOCKMEN'S will assume the burden of such hazard on a basis of contribution by its policy-holders at rates fixed in accordance with such average of loss.

In addition to the ordinary causes of such loss there has recently arisen that to accrue from condemnation and destruction of animals pursuant to inspection and tuberculin test by state sanitary officials. Such hazard attaches particularly to cattle. The record of such condemnations in the State of Kansas at large, within the current year, has approximated 2 1/2 per cent of all cattle inspected, while within the same term inspections of dairy herds around the City of Topeka have resulted in condemnation and slaughter of over 10 per cent of nearly 1,000 animals subjected to tuberculin test.

The STOCKMEN'S is prepared to also assume liability for the excess of such loss over the sums of money for which counties are liable under the law.

It appears certain that submission to such inspection and test will soon become a condition precedent to permission to sell dairy products, and recognition of such fact should induce on the part of dairymen the promptest consideration of obtaining protection against the probable results of such requirement.

**To The Stock Grower:** Write to us, saying how much live stock you have, and let us offer you an insurance policy on it. We desire to tell you more about how you can protect yourself against loss. A post card will bring you the information.

**To The Banker:** The Stockman's Insurance Company places live stock on a par with other insurable securities. It is to your interest that this insurance be available to your clients. We want you to represent us. An inquiry will bring full information.

**THE STOCKMEN'S INSURANCE CO.**  
Rooms 408-410 Central National Bank Bldg.  
**Topeka Kansas**

**MENTION KANSAS FARMER WHEN YOU WRITE**

Don't Miss This. The advertisement of the National Cloak & Suit Company on another page offers several real opportunities for saving money. Whatever you do, don't miss reading that advertisement.

with silo users, one dollar a ton will cover the cost of filling, provided the crop placed in the silo will produce five to six tons of silage per acre. This figure can be determined accurately if the cost for filling is kept. Not less than 50 cents a ton should be charged for depreciation on silo and equipment and including interest on investment, although this, of course, will depend upon the actual investment. To this should be added the value at market prices of the corn in a ton of silage. After the silo is filled and the acreage cut over is determined, it is possible to arrive at the acre yield in tons of silage with reasonable accuracy. The estimate on yield of corn per acre can best be used in arriving at the bushels of corn contained in a ton of the silage. In the case of a thirty-five to forty-bushel corn yield there will be about five bushels of this corn to the ton of silage. It is generally considered that in corn of this yield and which grain yield has been produced under normal conditions, there will be about eight tons of corn and silage per acre. It is apparent, though, that this rule of figuring is not reliable because there might be a growth of stalk sufficient to yield sixty bushels of corn to the acre if the ears were well developed, but whereas because of unfavorable conditions there might be only a twenty-bushel yield.

**FUTURE HOG INDUSTRY.**

**Lies in Proper Use of Properly Made Serum in Cholera Prevention.**

The great losses that have been sustained by the hog raisers of the United States from hog cholera have discouraged a great many farmers to the extent that they have almost ceased to raise hogs. Even the packers are becoming concerned about the source of their raw product. The hope of the entire industry seems to be centered in the Niles-Dorsett Serum for the prevention of this disease. Kansas City leads the world in the commercial manufacture of this serum.

Among the serum plants of Kansas City that of the Sheldon Serum Company is prominent for a number of reasons. In the first place it is the largest commercial plant in the United States. It occupies a tract of twenty-three acres along the Missouri river, widely separated from the dust and stench of the stock yards and with every natural advantage that could contribute to sanitation.

Everything in the way of modern equipment for the production of good potent serum has been installed in their plant. They have ample space and have utilized it to good advantage by widely separating the buildings and rooms in which the various operations are conducted. One has to but visit their laboratories and see the scrupulously clean quarters in which their serum is manufactured to appreciate one of the reasons of their success. The other and equally important consideration is the personnel of the men actively engaged with the company.

The officers of the Sheldon Serum Company are: S. Sheldon, president; Hubert King of Oak Grove, vice president; C. H. Thompson, secretary, and Colonel W. B. Carpenter, treasurer. Dr. Sheldon, who is the practical serum man in charge of the laboratories, has been interested in the serum business for six years. He is a man of unusual technical training, being a graduate veterinarian physician and pharmacist. He has occupied positions as United States examining veterinary surgeon, county and city physician and coroner, and was for several years state veterinarian at Columbia. It is easy to understand that no man without a great deal of personal ability could successfully discharge the duties of these offices. Dr. Sheldon, together with his assistants, Dr. G. P. Gant and Dr. G. E. Ellis, is qualified, by a thorough practical experience and close application to business, to manage the affairs of a company such as this in a way, equally as good if not better, than any other man in the business.

Colonel W. B. Carpenter, known intimately throughout half a dozen adjoining states, looks after the business and financial affairs of the concern. He is eminently qualified to fill this position on account of his experience as a director in a number of banks and because he has been an auctioneer for the past twenty years and has had occasion to come in direct personal contact with thousands of people. He has built up for himself an enviable reputation for honesty and integrity in all of his dealings and would never, under any conditions, sell anything that he did not believe was as represented.

The Sheldon Serum Company have government license number nineteen, which means that they are under federal inspection and must come up to very rigid requirements. Their serum is without doubt the equal of the best made in the world.—Adv.

# America Must Feed The World

And the American farmer will prosper. Farm land in the West will become more valuable and the business of farming more profitable than ever before.

Now is your great opportunity. Now is your time to buy a farm in Western Kansas, raise grain, feed live stock, and do what you can to feed a ravenous world.

There's money in it.

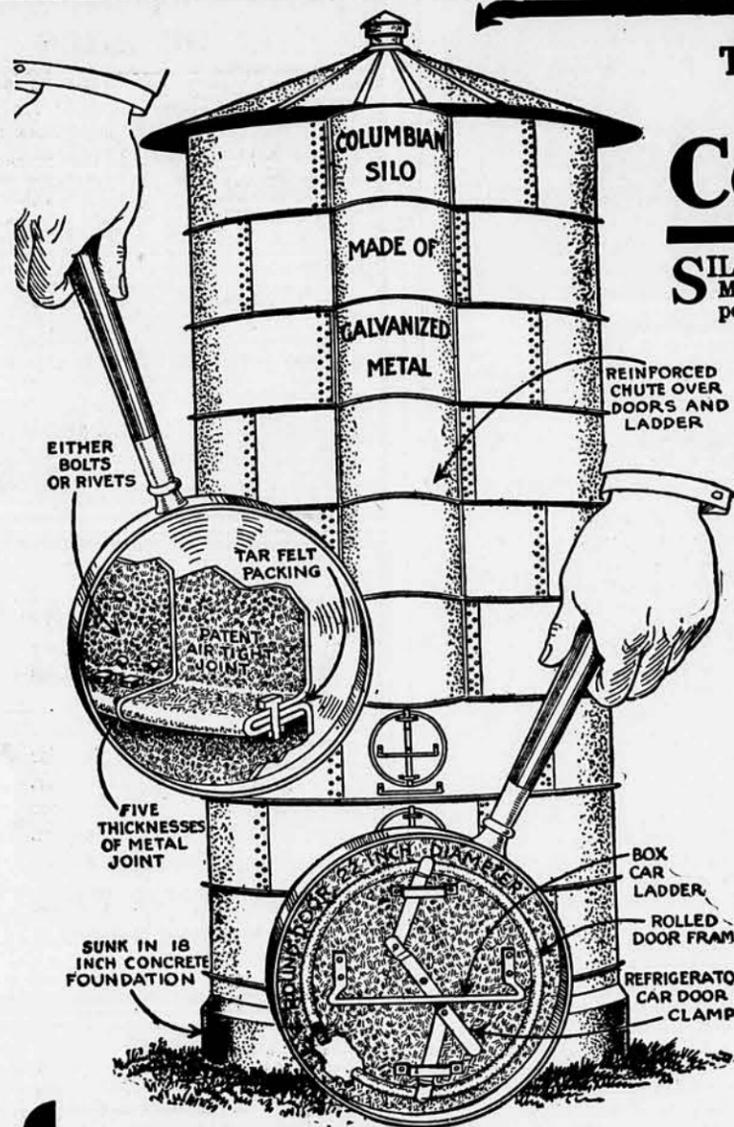
No section of the country produces more or better wheat and beef than does Kansas. The Southwestern counties are just being opened and land is cheap.

Don't overlook this great opportunity.

Investigate now and buy while prices are low. You will have a good profit in the advance alone and you will have a heavy dividend on what you raise.

Write me today for details.

C. L. Seagraves,  
General Colonization Agent,  
A. T. & S. F. Ry., 2400 Railway Exchange  
Chicago.



## The Most Careful Examination Finds Only Perfect Construction in the Columbian Metal Silo

**SILOS** may come and silos may go but erect on your farm a Columbian Metal Silo and you have one that will last a life time. It is a silo that gives and insures perfect silage under any and all conditions. It is not effected by heat or cold—by dryness or moisture. It is rust-proof, wind-proof, airtight and once erected your work is done. There are no hoops to tighten or adjustments to make. No trouble, no worry—no inconvenience. It means silo satisfaction.

**Don't Experiment!** In the Columbian Metal Silo you get the benefit of twenty years of experience backed by a careful and constant study of silos and silage. You take absolutely no chances when you put up a Columbian Metal Silo. Unlike wood silos it will not swell and warp when filled, or shrink and fall to pieces when empty. It cannot fall in or blow down. Unlike cement, it will not crack, crumble or settle. Being made of absolutely non-porous material the silage juices cannot be absorbed into the walls and the silage is just as good next to the wall as in the middle.

### It Is Never Too Late To Get A Columbian Silo

The enormous capacity of our plant enables us to turn out a complete silo in thirty minutes. This is your protection against delay. We can ship it in twelve hours or sooner after your order is received. Within a week it should be up on your farm. Its sectional construction makes it easy to erect without expert help. We furnish all the tools, bolts, rivets, etc., together with our special scaffold bracket iron that does away with the expense of scaffolding. With a helper or two you can make short work of putting up a Columbian Metal Silo and once up, it is there to stay. Made in sizes from 50 to 1000 tons capacity.

This is a silo year. Conservative estimates are that at least 10,000 silos will be built this year in the state of Kansas alone. Those that are being built of metal, and a large proportion of them are, will be in use long after the wood and cement ones are gone and forgotten. Age and use do not affect a Columbian Metal Silo, it is built to last a lifetime. It is the most economical to own as the first cost is the only cost—no up-keep expense.

### Get Our FREE BOOK

We want to send you a copy of our big Silo Book. It is full of valuable silo information. Tells how to cut, prepare and feed silage, and how to get the best results out of it. It also gives valuable hints on the various kinds of silo construction and gives pictures of many large Columbian Metal Silos on prosperous farms. We want you to have a copy of this book and will cheerfully send you one if you will sign and return the attached coupon. Do it today. Its worth many dollars to any man who is considering putting up a silo. The coupon gets it.

**Columbian Steel Tank Co.**

1601 West 12th Street, Kansas City, Mo.  
Also Manufacturers of Columbian Metal Granary.  
1000 Bushel Size \$88.55.

**FREE SILO BOOK COUPON**  
COLUMBIAN STEEL TANK CO., 1601 W. 12th St., Kansas City, Mo.  
GENTLEMEN:—I am interested in a 1000 ton Silo. Please send me price of same, also your FREE SILO BOOK.  
NAME.....  
P.O.....  
STATE.....  
R.F.D.....

# KODAK



Follow your business closely

by keeping not merely a record of weights, but also a Kodak picture record of your stock at various ages, and the development under different food conditions,—file in an album for reference. Such a record will enable you to follow your business more closely, because it is a record you can keep, and the pictures will tell the facts.

KODAKS, \$6.00 and up.  
BROWNIES, \$1.00 to \$12.00.

Ask for free catalogue at your dealers, or we will mail it.

EASTMAN KODAK COMPANY,  
453 State Street, ROCHESTER, N. Y.

## NO RUNTS IN YOUR HOG LOTS

When you keep a self feeder filled with Standard Hog Regulator

where the hogs can help themselves. Make the runty pigs pay for enough of Standard Hog Regulator to feed your entire herd, and show a profit besides.

VACCINATION causes no bad after effects when Standard Hog Regulator is fed regularly. Your pigs will prove to you the profits you will make by feeding the Regulator.

It improves thrift, regulates the bowels and expels worms.

Write us for formula and big free illustrated circular.

Standard Chemical Mfg. Co.,  
Thirteenth and Harney Sts., OMAHA, NEB.

## GREEN CORN CUTTER



Cuts and gathers corn, cane, kafir corn or anything planted in rows.

Runs easy. Long lasting. Thousands in use. Fully protected by patents. Send for free circulars.

J. A. COLE, Mfr., TOPEKA, KAN.

Attaches to Any Type of Wood or Masonry Silo.



## BUCKEYE SELF SUPPORTING SILO ROOF

Cheaper than wood. Will last longer. No need refilling silo; adds 6 feet to height. Quickly and easily erected.

Write for Our Roof Bulletin.

THE THOMAS & ARMSTRONG CO.  
547 W. Washington Blvd., Chicago, Ill.

## WE BUILD CONCRETE SILOS

Walls 6 inches thick and properly reinforced; doors and chute to suit your taste and pocket book; reliable work and reasonable prices. We have twenty outfits and still need about fifty contracts to fill out season. Write us now.

Hopper & Son, Manhattan, Kan.

## CORN HARVESTER

All steel, will last a lifetime. Only weighs 175 lbs. Either 1 or 2 men. One horse cuts 2 rows. Sold direct at wholesale prices. Every machine warranted. We also make the Jayhawk Stacker and Sweep Rakes. Prices very low. Write today for free circular—it will pay you.

F. WYATT MFG. CO.,  
906 N. Fifth St. Salina, Kansas.

**\$12.00** Stoop Feed Grader. **\$14.00** Salvaged Steel Wind Mill.

We manufacture all sizes and styles. It will pay you to investigate. Write for catalogue and price list.

**CURRIE WIND MILL CO.,**  
Seventh St., Topeka, Kansas

# THE FARM



Our article of a few weeks ago urging that fly-free dates be observed by Kansas farmers in the sowing of wheat this fall, has brought several letters the tenor of which is that the probability of abundant pasture from early sowed wheat is such as warrants taking a chance on the loss of the crop from Hessian fly and each writer argues that wheat sown early is much more likely to give good pasture than late sown wheat. At the time of writing the article relative to the fly-free dates we considered wheat growing from all angles. The fact is that last fall and winter wheat pasture was more abundant than it had been before in ten years. If our recollection is correct, it was in 1901 or 1902 that we had abundant wheat pasture throughout Kansas. The fall and winter conditions that year were very similar to those of last season. This is some evidence that the growing season must be favorable for even early sowed wheat if pasture is abundant. So, we are not inclined to depend upon abundant pasture from wheat. We certainly are not inclined to believe there is sufficient advantage in early sowing for pasture to offset the probable loss of the crop from Hessian fly. We do believe that the chances for pasture sufficient to pay the cost of the labor warrants seeding a piece of early wheat or rye expressly for pasture, the acreage so sown to be pastured as may be required but that this acreage be plowed under in the late spring and before the fly which has spent the winter therein, has a chance to move to adjoining fields. We are confident that this is the safe policy. The eastern half of Kansas is this season

seed, and everybody ought to know by this time that it is never necessary to sow over 15 pounds per acre and usually 10 pounds or 12 pounds will be better."

We have many times stated that Kansas should be growing more alfalfa. It is the very best hay we can produce. It is one of the best money crops we can grow. It can be converted into cash as readily as can wheat. It is a surer crop than wheat. Every man who has watched the crops of wheat or corn grown on land which has for several years been in alfalfa, has observed an increased yield in crops following alfalfa. On farms on which alfalfa hay is fed or on which alfalfa is pastured by hogs, is produced the most growthy and the most easily fattened animals and when these conditions are brought together in animal husbandry the profitability is at once apparent. Some eastern states are actually making over their soils in order to grow alfalfa. This need not be done in Kansas because except in the southeastern portion of the state, Kansas soil is perfectly adapted to alfalfa production. In southeast Kansas a little lime is needed. In some sections inoculation is necessary, but it may safely be said that generally throughout the state only a well prepared seed bed is required to obtain a satisfactory stand. There are sections of the state now growing alfalfa abundantly in which it was said ten years ago that alfalfa would not grow. We need alfalfa and there is only one way to get it; that is, keep seeding until a stand is obtained. There are alfalfa growers who have so carefully studied the question of seed bed and who know so well



FALL LISTING ON HAYS, KANSAS, AGRICULTURAL EXPERIMENT STATION.—THIS LEAVES THE GROUND ROUGH AND PREVENTS BLOWING AND THE OPEN FURROWS CATCH THE SNOW AND RAIN.

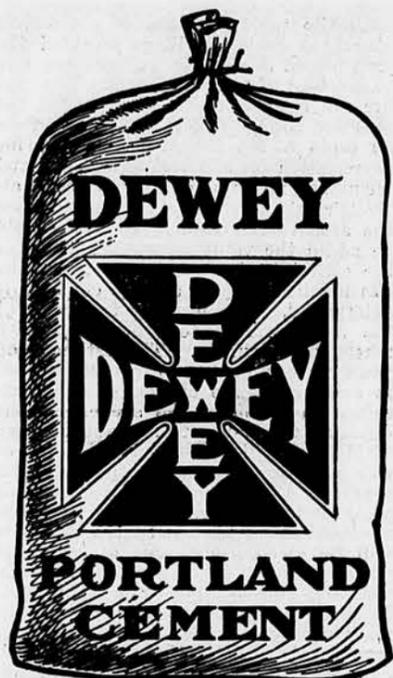
so thoroughly infested with fly that it is only by exercising greater precaution than usual in observing the fly-free date that severe damage to next year's crop can be averted. Look up KANSAS FARMER, August 22, and observe the map on page seven which will give you the fly-free date for seeding for your locality. The wheat or rye sown expressly for pasture will afford an excellent seed bed for feed crops planted next spring and the green crop plowed under will be highly beneficial to the land.

Writing relative to what we had printed in these columns urging the seeding of a greater acreage of alfalfa, J. H. Miller of the Kansas Agricultural College, says:

"Kansas has more than a million acres of alfalfa, nearly one-half million more acres than any other state in the Union. At least 100,000 acres were seeded to alfalfa in the fall of 1913 and the spring of 1914. With good rains in August and September of 1914, there ought to be another 100,000 acres seeded, and then at least 50,000 should be seeded next spring. Kansas can well afford to have 1,500,000 acres of alfalfa or even 2,000,000 acres. Everybody knows now how to get an alfalfa seed bed. Everybody in southeastern Kansas ought to know by this time how to discover suitable fields where alfalfa will do well. Everybody ought to know by this time the importance of clean, pure

how to prepare the ground and when to seed it, that they obtain a stand of alfalfa as certainly as they obtain a stand of corn.

Kansas is short on live stock. Farmers pretty generally realize the necessity of increasing the population of all kinds of live stock. This cannot be done rapidly. It is impossible to, by any means, double our live stock by next year at this time. We can increase the number of horses, cattle and hogs only by holding on to the breeding stock we now have. In this year of generally abundant feed of both roughage and grain and with wheat in the bin to take care of the farm finances, is a good time in which to determine that no breeding stock will be sold. The world will demand more meat during the next few years than ever before and animal products of all kinds will command high prices. The temptation will be to sell such cattle as we have and holding the herd at a minimum of numbers instead of increasing. This temptation the past few years is now responsible for the sale of much of our live stock. This condition is likely to continue to prevail. It will require unusual determination on the part of every farmer to hold onto the amount of breeding stock he ought to keep. The corn crop this year will probably be around a hundred million bushels or about forty million less than our twenty-year average, but about eighty mil-



Sold by Leading Dealers Everywhere.

## 3 MACHINES IN 1

A perfect seed bed is as important as to sow or plant. The Western Pulverizer, Packer and Mulcher makes a perfect seed bed and leaves a loose mulch on top to retain the moisture in one operation. It will double profits on crops. Made in 8 sizes, 1 and 3 sections. Sold direct to you on one year's trial. Prices, \$22.00 and up.



WE WANT every farmer and landowner to have our illustrated circular. It describes the machine, its principle and advantages over all others. It gives testimonials from many farmers proving what it will do on wheat, alfalfa and other crops. It contains valuable information on how to prepare the soil for better results. Send for this circular today, whether you want to buy or not.

**WESTERN LAND ROLLER CO.**  
Box 405 Hastings, Nebr.

## Easy to own an Engine Now

Direct from Factory to User	2 H-P. \$34.95
	4 H-P. 69.75
	6 H-P. 99.35
	8 H-P. 139.65
	12 H-P. 219.90
	16 H-P. 298.80
	22 H-P. 399.65

Portable Engines Proportional Cost.

## WITTE Engines

Kerosene, Gasoline and Gas

Stationary, (skidded or on iron base), and Mounted Styles. Long-wearing, separable, semi-steel cylinders and 4-ring pistons; automobile ignition; spark shift; vertical valves; variable speed; and other merits without which no engine is now high-grade.

60 Days' Free Trial; 5-Year Warranty

Cash or Easy Terms. Why pay double price for any good engine, or take a poor one, for any price, when the WITTE costs so little and saves you all the risk?

Get the "New Book Free." Tells you the "insides" of engine selling as well as manufacturing. Get the facts whether you buy from me or not.

Ed. H. Witte, Witte Iron Works Co., 1608 Oakland Ave., Kansas City, Mo.

## SEE THE CUSHMAN AT HUTCHINSON

The Cushman 4 horse power is the one practical engine for the grain and corn binder. Used for all general purpose work. Light weight—compact. Sizes 4 to 20 horse power.

**CUSHMAN MOTOR WORKS**  
2048 N. Lincoln, Nebraska

## Handy Farm Tool

A labor saver on your farm. Used every day. Stretches fence; pulls posts, etc.; lifts or pulls three tons; weighs 54 pounds.

**Automatic Combination Tool**  
Absolutely guaranteed for one year. Splendid opportunity for agents—as experience necessary. Write today for our big circular and full particulars.

**HARRAN MFG. CO.**  
Drawer 2 Bloomfield, Ind.



**Pays For  
Itself In  
10 Hours**

**Use This Machine  
30 Days FREE!**

**Makes Your Straw Worth  
\$250 A Ton**

You are losing good money if you are burning your straw or letting it rot in the stack.

Every ton of straw you produce—even the old half-decayed stack that has been taking up valuable space in your fields for the past two or three years—is worth at least \$2.50 a ton when spread over your fields as fertilizer. You'll find positive proof on this point in my free book on straw fertilizer. Get this book and read the experience of scores of farmers and dozens of America's greatest agricultural experts and farm paper editors. Read how Frank Carter cleared \$400 on 40 acres of "blow" land, and how Curtis M. Brown is over \$500 ahead on a patch of land his neighbors said would not sprout black-eyed peas. Also learn how William Knop cleared \$500 extra profits last year with the aid of my great crop maker—the

**"Simplex"  
Straw Spreader**

I want you to send for my free book and learn the important facts about this wonderful machine. It will show you how to increase your wheat yield 5 bushels an acre, and other crops in proportion. It will prove to you that you have right at hand, and free of any cost, the very best humus builder and natural fertilizer that money can buy. It will show you what you can secure in the way of increased farm profits—seen by showing you what hundreds of others have accomplished with the "Simplex" Spreader.

You'll be surprised to find what a small sum I ask for the "Simplex"—a sum so small that the machine can pay its entire cost the first three days' use.

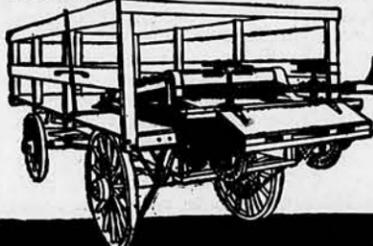
**30 Days Free Trial**

You do not take a particle of risk when you accept my offer on the "Simplex." You do not pay me a cent in advance—you do not make a deposit of any kind. The "Simplex" comes to you complete all ready to put to work. Use it 30 days before you decide whether or not you want to keep it. Put it to every test—let it prove its worth to you.

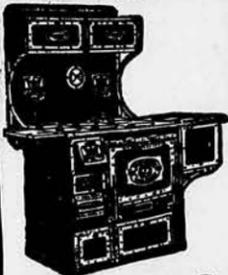
If it doesn't satisfy you completely—send it back at my expense. That's the offer that has stood back of every "Simplex" Spreader I ever sold—and every "Simplex" owner will tell you that he got his money's worth many times over.

Send today for my big thirty-two-page book on Straw Spreaders. You'll find it interesting and instructive whether or not you buy a "Simplex." I will send the book free and postpaid—and will also write you a letter explaining my 30-day free trial, no-risk selling plan. Address: Manson Campbell, Pres.,

**MANSON CAMPBELL CO.,**  
405 Traders Bldg., Kansas City, Mo.  
12th & Campbell Sts.



**FREE Two Valuable Books, "The RANGE PROBLEM" and**



**CASH  
IN  
ON THE  
OLD  
STOVE**

**You Can Discard Your Old Stove with Advantage and Profit Lasts Longer** In construction, workmanship and design. The Monarch is years ahead of all other ranges. It is made of malleable iron and steel. It has complete triple walls— asbestos and Less Fuel plate. Full protection against damage by corrosion. The top and oven heat quickly. Every seam is riveted tight—no bolts Less Work out. The Duplex Draft and Hot Blast Fire Box insure even heat and full use of all the fuel. The polished top never blackens. Send for FREE Books. Write today. Address: **Monarch Malleable Iron Range Co.** 579 Lake Street Beaver Dam, Wisconsin

lion in excess of last year. Thousands of bushels of this year's corn is not marketable, but has a feeding value almost equal to good corn. This should be fed to farm live stock. We have, generally speaking, an abundant crop of roughage. This is marketable only through live stock. It is apparent how necessary live stock is to convert the unsalable products of the farm into money. This is the important reason for eternally hammering on this live stock subject. We produce roughage in spite of ourselves. Crops which fail to make grain make roughage. Grain cannot be produced without the growing of roughage. We need the money this roughage will bring and we can get money from it only by feeding it. A million sheep could be fattened this winter in Kansas on feed that will, in all probability, be wasted. Let us face the situation as it exists and as it has existed year after year and determine some way or other to keep on the farm all the stock for which we can grow feed. The live stock farmer must be forehanded; he must see the necessity of saving feed, and this lesson of forehandness is one of the important lessons to be learned.

Our lifetime has been spent in Kansas and all but about ten years of that time, on a farm. These ten years have been spent in a line, however, which has necessitated reasonably close touch with the farmers of this state. We have never seen so much interest in the sorghums and other dry weather-resisting crops as has prevailed the last two years. This because of the showing these crops have made during dry seasons. The kafir, milo and feterita promises yields of grain fully up to the expectations. The forage crop from these will be heavy. We will have no trouble in disposing of the grain. That which cannot be fed can easily be sold, but millions of roughage including the fodder of corn, will be wasted this year. This because we do not have the required number of roughage-eating animals to consume it and this is because of our one-sided view of general farm operations. Short-sightedness and lack of interest in live stock has brought about this condition. We failed to recognize the advantages of dry weather-resisting crops at a time when we had plenty of live stock and because of feed shortage reduced the numbers of live stock to an appalling degree. To increase the herd of live stock is a slow process when it is necessary to sell an animal every time a little real money is needed. Hundreds of farmers would buy breeding stock this minute if it could be had at prices which looked to them as reasonable, but because of the long prices prevailing for good breeding stock they hesitate and of course are regretful of the sales they made under conditions which had not absolutely forced them to sell. Profitable farm management is an important study. Just how to organize the farm so that there may be a steady and certain income year after year, is the big and all-important question. Crop growing for market alone, will not do. The market crops are not sufficiently certain. The keeping of live stock and depending upon each year to grow the feed for that live stock, is not a safe policy. It would seem, though, that every farmer could work out a combination of market crops and live stock with a means of carrying at least a year's feed supply in reserve. This is the policy which must be adopted in this state. To sow all the land to wheat following a big wheat crop is likely to be disastrous. Nothing is gained by following a dry year with a large acreage of dry weather-resisting feed crops unless that feed can be utilized. How is your farm organized? Do you not think it could be better organized? Do you not believe that as between growing crops for market, the milking of a few cows with a calf from each, each year, the keeping of a few brood sows and with feterita, kafir or milo to fatten their offspring, there is a chance for a more dependable income than you now have?

**Avoid Silage Cutter Accidents.**

By observing three simple rules, the farmer who is using silo filling machinery for the first time may avoid some of the accidents which occasionally damage new machines beyond repair.

1. Be sure that the machine is being run at the proper speed.
2. Take care that corn is never put into the machine until the motion is up to full speed.
3. In stopping, be careful not to shut off the power until the elevator is empty.

If the elevator is not empty, the cut material will fall back and lodge in the fans. Then when the machine is started again, the cut corn jams the fans and as a result they are bent or broken.

**Comfortable Homes FOR LESS MONEY**  
**Sensible Buildings**

**BEST ROOFING LESS THAN COST**

We bought this roofing from a manufacturer of one of the finest 1-Ply Per Roll 100 Sq. Ft. 85c 3-Ply Per Roll 100 Sq. Ft. \$1.15



U.S. It is the "mill ends"—coming two or three pieces to the roll. Same goods exactly at less than factory cost. Nails and cement free. We put an iron-clad guarantee on it. You'll want some this fall. Other grades listed in our catalog; also corrugated roofing at direct-to-consumer prices. Fill in the coupon.

**New and Used LUMBER!**

**TRUST BUSTING PRICES** We are the big trust-busters. If you are going to build a house or a barn, sit down and give us a list of what you will need in lumber, hardware, etc. Shingles, millwork, doors, window sashes, nails, etc., etc., (everything for the builder) are listed in our finely illustrated catalog. The coupon brings it. "We sell it for less."

**Ready Mixed Paint 84c PAINT GALLON**

Paint 84c. We bought 15,000 gallons of this fine paint at a sale. It formerly sold for \$1.50 a gallon under another trademark. You save exactly 66c on every gallon. Order from this ad—give color. Money back if not satisfactory.

**QUICK SAFE DELIVERY—The Customer is Always Right!!**

No delay—our stock is complete. On every foot of lumber, every foot of roofing, every lock or anything else that we send you goes our ironclad guarantee of absolute satisfaction or money back. Our business is founded on fair, square dealing. This with lowest prices and highest quality are our watchwords. We refer you to the publishers of this paper or to the Commonwealth National Bank, Kansas City, Mo., as to our reliability.

**Get This Big Catalog**

Thousands of bargains are listed in it besides the ones above—wire fence, nails, heating supplies, glass, etc., etc. It is fully illustrated—you can tell just what to order. It is our only salesman—and means a saving to you of three middle-men's profits. Write for it today. Use the coupon or simply send a postal.



**KING'S HOUSEWRECKING, SALVAGE & LBR. CO.**  
1726 Troost Avenue. Kansas City, Mo.

**King's Housewrecking Salvage & Lumber Co.**  
1726 Troost, Kansas City, Mo.  
Please send your big illustrated catalog.  
Name.....  
Town.....  
State.....

**PROTECT YOUR WHEAT AND HAY WITH A BAKER CANVAS PAULIN**

**THRESHED GRAIN IS SAFE UNDER OUR WATER-PROOF CANVAS.**

Every grain grower can cheaply protect his wheat or other grain with a Baker Water-Proof Canvas Paulin. We make all sizes of covers and grain savers and ship promptly. Paulins used for covering threshed grain, protect it from rain, wind and dirt. When the grain is sold, the same paulins will protect hay stacks or valuable machinery.

For service there is no material that can be used so generally on the farm as Baker's Water-Proof Canvas Paulins.

A post card will bring descriptive circular and price list. Buy today and protect your wheat. Threshers will find it a great advantage to have one of our Paulins. We also sell all sizes Tents and Awnings.

**BAKER & LOCKWOOD MFG. CO. Kansas City, Mo**



**Drain Your Land In an Instant!**

Do it cheaply, quickly and easily at half the cost of hand work. Turn those flooded fields and swampy places into dry, fertile land that will give you big crops. In a fraction of a second you can dig a perfect drainage ditch, smooth at sides and bottom. No experience necessary. Punch a row of holes, load, fire, and blast as much ditch as 20 men could dig in a day.

**Atlas Farm Powder THE SAFEST EXPLOSIVE**

The Original Farm Powder.

is made especially for farm use, and is sold by dealers near you. It is the cheapest farmhand you can hire for ditching, blasting stumps and boulders, and tree planting. Farmers everywhere use it to save time, money and labor. By using Atlas Farm Powder to break up the subsoil, you can insure your crops against drouth and release rich stores of plant food that will give you increased harvests. Subsoil blasting pays big profits. It makes the land worth more.

**Valuable Book, "BETTER FARMING," Free**  
Our new illustrated book, "Better Farming," shows how to increase the fertility of the soil, protect crops from drouth, make your land more valuable, and increase farm profits by using Atlas Farm Powder, the Safest Explosive. Mail the coupon and get it FREE.

**ATLAS POWDER COMPANY** General Office: WILMINGTON, DEL.  
Sales Offices: Birmingham, Boston, Joplin, Knoxville, New Orleans, New York, Philadelphia, St. Louis

Atlas Powder Co., Wilmington, Del.  
Send me your book, "Better Farming." Name.....  
I may use Atlas Farm Powder for Address.....  
KF-S5



## At the Fair This Year

**W**HEN the inviting shade of the big SHARPLES tent beckons you inside, slip into the welcome arm of a big, comfy chair in a cool corner—and while you rest your tired feet, watch the SHARPLES MILKER milk your neighbor's cows.

Smoke if you want to—the ladies don't mind. Relax and get all the good out of your little recreation trip. Feel that this big exhibit is *your* show—because we have gone to a lot of trouble to make these exhibits both interesting and instructive—but, after all, comfort is the thing which intensifies all our pleasures.

If you are interested in dairying—and everyone is nowadays—here you will find food for thought. Cows strange to the machine will be milked at regular intervals. Here you will learn, in a few minutes, why the SHARPLES MILKER is now milking a quarter million cows. You can see the reason for its remarkable success instantly. Better still, you can talk with farmers and dealers who have shared in the upbuilding of that success—undisturbed.

The things a man finds out for himself are the ones most worth while to him. People learn—they are not taught nowadays. Farmers have a way of doing their own thinking. And if an article does not possess merit you cannot make them believe that it does. And, on the other hand, if it does possess that merit, you can't keep them from finding it out. We investigate and "buy" things in this progressive age. Farm implements are no longer "sold."

Every member of the family is interested in the MILKER, it seems. And it is right that they should be; because if a man can use a MILKER and it will do him good, the sooner he knows about it the better. We cannot put off the inevitable—and why, then, should we try? If a man can't use a MILKER it won't hurt him to know about it, because it is a big, new idea. But if he can use it, now or any time, why deny himself so good an opportunity of seeing it?

Clarifiers will be shown, too, and gasoline engines. And Separators, Whey Machines, and much else which interests the dairy fraternity.

*Something Happens Every Minute at the Sharples Milker Show.*

It's really interesting! You will be delighted with your visit—so will we.

### Fairs and Expositions—1914

Name	Location	Date
California State Fair	Sacramento, Cal.	Sept. 12-19
Connecticut State Fair	Hartford, Conn.	Sept. 7-11
Illinois State Fair	Springfield, Ill.	Sept. 13-26
Indiana State Fair	Indianapolis, Ind.	Sept. 7-11
Iowa State Fair and Exposition	Des Moines, Ia.	Aug. 26-Sept. 3
Kansas State Fair	Hutchinson, Kan.	Sept. 12-19
Michigan State Fair	Detroit, Mich.	Sept. 7-18
Minnesota State Fair and Exposition	Hamline, Minn.	Sept. 7-12
Missouri State Fair	Sedalia, Mo.	Sept. 26-Oct. 2
Nebraska State Fair	Lincoln, Neb.	Sept. 7-11
New York State Fair	Syracuse, N. Y.	Aug. 31-Sept. 5
Ohio State Fair	Columbus, O.	Aug. 31-Sept. 4
Oregon State Fair	Salem, Ore.	Sept. 23-Oct. 3
The Allentown Fair	Allentown, Pa.	Sept. 22-25
Tennessee State Fair	Nashville, Tenn.	Sept. 21-26
Utah State Fair	Salt Lake City, Utah	Oct. 5-10
Vermont State Fair	White River Junct., Vt.	Sept. 15-18
Virginia State Fair	Richmond, Va.	Oct. 5-10
Wisconsin State Fair	Milwaukee, Wis.	Sept. 14-18
Interstate Live Stock Fair	Sioux City, Ia.	Sept. 21-26
New Jersey-Penna. Interstate Fair	Trenton, N. J.	Sept. 28-Oct. 2
Spokane Interstate Fair	Spokane, Wash.	Sept. 12-20
Pacific International Live Stock	Portland, Ore.	Dec. 7-12
Dairy Cattle Congress	Waterloo, Ia.	Oct. 12-18
National Dairy Show	Chicago, Ill.	Oct. 22-31
Maine State Fair	Waterville, Me.	Sept. 1-4
New Hampshire State Fair	Salem, N. H.	Sept. 1-5
Rochester Industrial Exposition	Rochester, N. Y.	Sept. 7-19
Maryland Interstate Fair	Hagerstown, Md.	Oct. 13-16

**THE SHARPLES SEPARATOR CO., West Chester Pa.**

Chicago Dallas Minneapolis Kansas City Omaha San Francisco  
Portland, Ore. Winnipeg Toronto

AGENCIES EVERYWHERE

# DAIRY



All investigations into those things which influence the keeping of cream point to the density or percentage of butter fat as an important factor in keeping cream sweet and of good flavor. It is well established that cream low in butter fat will sour more readily and develop objectionable flavors and odors to a greater degree than will heavy cream. Close tabulation of results following experimental work in cream grading in Kansas some three or four years ago showed that the cream of poorer quality delivered to the receiving stations was thin cream. So to do would involve a technical discussion which would prove uninteresting and of no special value to the reader. It is well enough to understand that a difference of keeping quality exists between thin and heavy cream in favor of the latter and to accept the reasons given therefor as facts. It may be safely said that with the same care heavy cream will keep sweet longer than thin, will arrive at the creamery in better condition and will make a better quality of butter. If this were fully appreciated and farmers would separate a heavier cream the general quality of cream and butter would be better and the producer of cream would share in the higher price for which the better butter would sell.

Data obtained from the trials in cream grading to which reference is above made, revealed that a large percentage of the thin cream delivered to cream receiving stations in this state was cream which came from the so-called water separators. These are not separators in fact. There are various kinds and a description of each would be superfluous. Suffice it to say, however, that by the use of these so-called separators the cream is raised by gravity. In them the same principle is employed as in the case of setting milk in crocks, pans or cans and allowing the cream to rise and skimming the cream therefrom by the use of the old-fashioned skimmer. It is impossible to maintain by any of these methods a temperature most favorable to the rising of cream by gravity. Because of the inability to maintain the proper temperatures for rising and also through the fact that insufficient time is generally given for the rising of the cream, the separation of cream from the milk is not complete. The user in order to be sure that all the cream which has risen is skimmed, will remove with the cream a sufficient quantity of milk to make the cream thin or of low percentage of butter fat. Aside from the production of thin cream by these means, the butter fat is not recovered from the milk to such extent as to make the skimming clean. There is, therefore, a surprisingly heavy loss in butter fat in the skim milk from such methods. The editor has personally tested the skim milk from gravity raised cream and has found as much as one-fourth to one-third of the total butter fat contained in the milk left in the skim milk and which was fed to calves and pigs. There have been hundreds of trials comparing the hand skimming of cream raised by gravity with the centrifugal cream separators. The trials all show that the farmer cannot afford to raise cream by gravity if he is milking cows for the money such milking will afford. The detail of these trials would involve the reproduction here of figures which would prove tiresome. In this instance the editor's word must be taken for the inefficiency of hand skimming. Every observing farmer, however, will have noticed for himself the loss of cream through hand skimming. Such loss may be roughly estimated under the conditions and methods prevailing in Kansas, as to represent easily the total loss of the butter fat produced by one cow from each five milked. If you are milking cows for fun, maybe you can afford to lose the butter fat of each fifth cow. It would seem to us, however, that this is too great a toll to be paid for this bit of fun. In other words, the fun obtained from milking five cows is too expensive of the butter fat loss from one cow represents the cost of that sport. It must be considered, too, that the loss comes not only through butter fat unrecovered, but also through the lower price which the thinner

cream will bring under a cream grading plan which some day will be compulsory in this state.

Thin cream not only comes from water separators or crocks or pans, but comes also from centrifugal cream separators. There are some separators which will not skim a heavy cream—a cream testing 35 to 40 per cent fat. There are separators which will skim cream this heavy in butter fat but which in so doing will not recover the cream from the milk. In other words, they will not do clean skimming. However, in the days of the improved centrifugal cream separator, such machines are not as numerous as in the day when they had not reached the perfection of the present. Thin cream is delivered and sold from separators which have the required skimming efficiency for a heavy cream but which are not turned at the proper speed or which are not kept in proper condition. A cream separator which is represented by the manufacturer as requiring fifty turns of the crank per minute, should be operated at that speed. The manufacturer somewhere on the machine marked the number of revolutions the crank should be turned per minute and he did that for a purpose. That purpose was to keep before the operator the fact that the machine would do its most efficient work when turned at that speed. It is important, therefore, that the machine be operated at the required speed in order to recover all the butter fat from the milk. The best machine operated at a lower speed than that required will also produce a cream thin in butter fat percentage. The best of separators which are maintained in poor condition will also deliver a thin cream and give imperfect skimming results. The condition of such machines is usually because of some injury to the inner parts of the bowl, to the fact that the bowl is out of balance from careless handling, to the wearing of the neck bearing so that the bowl is permitted to wobble, and also to the wearing of other bearings and bears to such an extent that the power is not steadily transmitted to the bowl. A centrifugal hand separator properly operated and in proper condition will recover practically all of the butter fat from the milk. The amount of butter fat left in the skim milk from such separators will be infinitesimally small—ranging from an amount so small that it cannot be measured to two, three or four-hundredths of one per cent. The man who milks cows cannot afford to console himself in the fact that he can afford to skim his milk by inefficient methods because the calves and pigs get the butter fat. A pound of butter fat worth 25 to 30 cents can, except in the case of very young animals, be replaced by its equivalent in corn, kafir, milo or feterita at a cost of 5 or 6 cents.

There are thousands of the so-called water separators in Kansas. On many farms skimming from crocks or pans is still followed. Either practice is extravagant and should be succeeded by the use of a first-class centrifugal separator. The cost of these has been materially reduced the past six or seven years, good separators costing not more than half what they cost ten years ago. A centrifugal cream separator will easily save enough butter fat from the milk of a herd of ten cows to pay for itself in one milking season. This does not take into consideration the greater ease with which the cream may be kept in condition or the better quality of the cream which may be sold therefrom. There are in Kansas thousands of separators which are worn out and which ought to be replaced by new machines. There is not a hand separator in use in the state for a five-year period which has not paid for itself many times over. An old machine which has done as good service as thousands of machines have done should be replaced with machines which will perform more efficient work. This is not written to sell more cream separators. It is written, however, with the idea of saving money for the farm dairyman. The editor has been in times past in that same condition as applies generally to the farm dairymen of the state. We know that it requires careful

What helps the quality of your cured meats? *Flavor*. What salt brings out the full flavor? *Worcester Salt*.



Use it. Worcester Salt makes the clean, sparkling brine which stays free from slime and "ropiness." It gives to your hams, bacon and salt pork, that sweet flavor prized by epicures.

**WORCESTER SALT**

The Salt with the Savor

The fine even crystals of Worcester Salt also make it best for butter making. Our patent process frees it from bitterness that spoils flavor.

For farm and dairy use, Worcester Salt is put up in 14 lb. muslin bags and in 28 and 56 lb., Irish linen bags. Get a bag from your grocer.

Write for booklet "Curing Meats on the Farm." Sent free on request.

**Worcester Salt Co.**  
Largest Producers of High Grade Salt in the World  
NEW YORK

owned would not do a good job of cutting. This illustration is parallel with the situation of the farmer who is milking eight or ten cows and who after caring for the cows—feeding them and doing the labor of milking—would refuse to use such machinery in separating the cream from that milk as would cause him a loss of one-fourth to one-third of the butter fat.

The centrifugal hand separator is as essential in the proper conduct of the dairy as is a pail into which the milk is drawn or a wagon and team with which the milk or cream may be hauled to market. It is one of the economies essential to profitable dairying. The hand separator has become so generally used and has proven so satisfactory in the western states that it has created a method of conducting the creamery business known as the hand separator plan. In these states in which the creamery business was established before the perfection of the hand separator, and had become firmly entrenched by other methods, the hand separator is now introducing itself. The creamery business of the United States will ultimately be conducted wholly on the hand separator plan. The centrifugal cream separator is one of the economies in the conduct of farm dairying which cannot be avoided. The feeding of the warm, sweet handling of the milk after it has been obtained from the cow, to realize a maximum of profit. It would be absurd for a man to grow a crop of wheat and when harvesting time came leave one-fourth to one-third of that crop on the ground because the old harvester he skim milk from the centrifugal separator to pigs or calves, is in itself a feature which commends the centrifugal separator. This is especially true in the case of very young animals. The loss of the animal heat from the warm skim milk is that much lost energy. It requires the energy of a certain amount of feed to warm that milk in the laboratory of the cow. If that heat is retained when it is fed to other animals it will not require the energy of feed to again heat it to the normal temperature. To save the normal heat of milk is to save feed. This may be a new thought to many farm dairymen, but if you will consider it just a minute you will note to your own satisfaction that it is the truth.

The average farm does not produce as much as four or five hundred dollars' worth of wheat per year for a ten-year period. Neither does it produce this much butter fat per year for a similar period, but it could if ten or twelve cows were milked. If this much wheat were produced a grain binder costing two and a half times as much as a cream separator, would be maintained for the cutting of that wheat, and on most farms two binders would be purchased in that period. This, to save wheat equal in value to the butter fat from ten or twelve cows. A cream separator to complete the harvesting of the butter fat will require an investment not in excess of one-sixth of the investment necessary to take care of the wheat. Some of the most important lessons we teach are by comparison. This is a comparison which ought to bring the fact home to the man who is begrudging an investment in a cream separator or in replacing an old separator with a new machine. This ought also to cause consideration of a little herd of milk cows for every farm. It shows what the cows will do in comparison with wheat growing. In this connection it is to be remembered also that the feed for the cows will grow when wheat crops are not produced. It is to be remembered that feed for cows can be grown when feed for other kinds of live stock cannot be produced. It is worth observing, too, that the milk is not the only source of income from the herd. The calves will be worth as much as the milk and the calves will eat and thrive on the same character of feed as that required by the cow and which feed is the most certain of production. We cannot close without the admonition to KANSAS FARMER folks that the milking of a few cows to consume the roughage of the farm which is produced every year—with every crop of corn and which in fact is grown whether or not there is as much as five bushels of corn per acre—is an assurance for a weekly cash income and a protection against the incurrence of debt, which are two things so essential to the permanent prosperity of every family.

The ticking of a watch in a sick room is often most trying. To obviate this, turn a tumbler over a watch on chair or table beside the bed, and the sound of the ticking can no longer be heard.

**Lowest Prices Ever Made On World's Best Roofing**

Lightning-proof, Fire-proof, Rust-proof, Rot-proof, Galvanized Steel Roofing Lasts as Long as Building Stands. Once you have purchased and laid Edwards Tightcote Galvanized Steel Roofing your roofing expense for that building is at an end. Its cost per square is the lowest ever made. It has no up-keep cost. Always beautiful in appearance. Reducing cost of insurance.

**EDWARDS Exclusive Tightcote Process**  
Makes Rust-Proof Roofing. The zinc spelter becomes practically one piece with the steel. No ordinary galvanizing can compare with it. Each and every Edwards Metal Shingle, Metal Spanish Tile, each sheet of Edwards Roo Steel Shingles, Grip Lock Roofing, Fressed Standing Seam or Roll Roofing, Ceiling, Siding, etc., is dipped in a bath of molten zinc, one at a time, after the metal has been stamped and resquared. The edges are galvanized as heavily as the sides. Not the space of a pin-point on steel exposed to weather.

**How To Test Galvanizing**  
Take a piece of any other galvanized steel, bend it back and forth several times, hammering it down each time. You will then be able to flake off great scales of the galvanizing with your finger nail. Apply this test to a piece of Edwards Tightcote Galvanized Steel Roofing—you'll find no flaking.

**EDWARDS Patent Interlocking Device**  
Prevents Warping, Buckling or Breaking, Protects Nail Holes—they can't Leak or Rust. Nails are driven through the under layer not exposed to weather—cannot rust. No special tools or experience needed to lay this Roofing; anyone can do the work—lay over old shingles if you wish.

**Roo Steel Shingles**  
Cost Less, Outlasts Ordinary Roofing and are your joy and pride forever. No matter what kind of a building you have in mind there is a style of EDWARDS Galvanized Roofing exactly suited to your needs.

**FREIGHT PAID Lowest Factory Prices**  
Greatest roofing proposition ever made. We sell you direct—save you in-between dealers' profits. No matter what your building is, we simply ask the right

**FREE Roofing Book**  
to prove to you that our prices are lowest ever made for World's Best Roofing. Postal or coupon brings Roofing Book No. 9363.

**THE EDWARDS MFG. CO.**  
8313-8363 Pitt St., Cincinnati, Ohio

Lowest prices ever made on Ready Made Fire-Proof Steel Garages. Set up any place. Postal brings illustrated 64 page catalog FREE.

**Garage \$49.50**

World's Greatest Roofing Book  
114 E. Broadway  
N.Y.C.  
8313-8363 Pitt St., Cincinnati, Ohio  
Send FREE Samples, Freight-Paid prices and Roofing Book No. 9363

Name.....  
Address.....  
Largest Makers of Sheet Metal Products in the World

**Lightest Draft—Easiest Handled**

Wherever foot lift plows are used the Emerson leads for lightness of draft, ease of handling and length of service. The

**Emerson Foot Lift Plow**

is the *lightest draft* plow made and the most durable. Load is close to the team and carried on the wheels. A boy can easily operate the Emerson.

**The Emerson Foot Lift Feature Made a New Era in Plowing Efficiency**

Send for free book telling you how your feet handle the plow, leaving your hands free to manage the team.

**Emerson-Brantingham Implement Company (Inc.)**  
Farm Machinery  
312 W. Iron Street  
Rockford, Illinois  
Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Tractor Engines, Threshing Machines, Road Rollers, Wagons and Vehicles. 40519

**LOUDEN BIRD PROOF BARN DOOR HANGER**

This barn door hanger is not only bird-proof but proof against troubles of every kind. The enclosed track, made of one solid piece of high-grade steel pressed into tubular shape, prevents all obstruction, winter and summer. The sparrow is banished; snow, ice, rain or trash can never interfere with its smooth operation.

Center-hung on Roller-Bearing Tandem Trolleys makes Loudon hung doors easy to move; flexible construction prevents breakage by crowding stock—always holds door close to the wall. Carries the heaviest doors without sagging.

Illustrated Catalog on Louden Barn Door Hangers, Steel Stalls and Stanchions, Feed and Litter Carriers, Hay Tools, Power Hoists, and other Louden Barn Equipment sent on request. See your local dealer or write us direct.

Let us help you plan your new barn. Our barn building experts are at your service. Suggestions and preliminary sketches FREE.

**Louden Machinery Co.** 1503 Bridge Ave., Fairfield, Iowa (Established 1867) (114)

**STOPS BARN DOOR TROUBLES**

**SEND US HAY TO PAY FOR THIS PRESS**  
HIGHEST KANSAS CITY MARKET PRICE ALLOWED ON PURCHASE.

Every Farmer Can Have an Auto-Fedan Hay Press on This Liberal Plan.

BALES YOUR HAY 20 PER CENT CHEAPER THAN ANY OTHER PRESS.

TWO KINDS—Gasoline power and horse power. Auto-Fedan means one less man. What you save by having an Auto-Fedan two seasons more than pays for the baler. Thousands in use. Write today for free descriptive book and quotation on your hay.

**THE AUTO-FEDAN HAY PRESS, 1565 West 12th Street, Kansas City, Mo.**

READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

**Peg Top Pants \$2.60**  
NO EXTRA CHARGE

Made to Your Individual Measure Guaranteed Workmanship, Fit and Quality

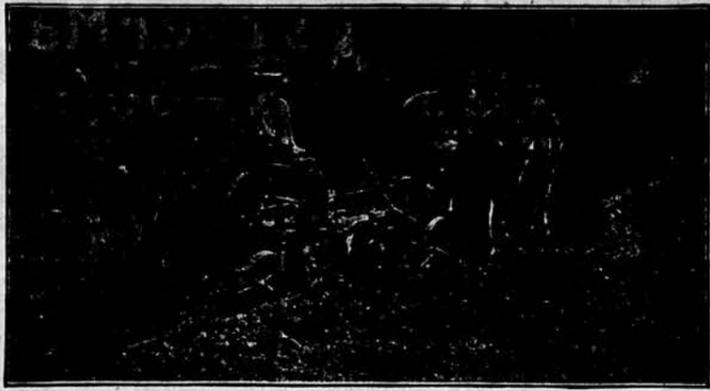
Greatest clothing offer of the season—to advertise the famous Reliable tailored-to-measure clothes. Cut in latest style. The Reliable Peg Top is the classiest, nobbiest, most graceful pants made by any tailoring house in the country. Sixty-two beautiful cloth samples sent you free to choose from.

**AGENT WANTED**  
A "Live Wire" wanted in every town in the country to take orders for the famous Reliable made-to-measure clothes. Our agents make big money taking orders in their spare time. No experience, no capital needed.

**Magnificent Outfit FREE**  
Write for our magnificent free outfit, up-to-date in the latest /er gotten out. Contains nobby cloth samples, elegant colored fashion plates, tape measure, order blanks, envelopes, stationary, advertising matter, everything necessary to start you in a big money making business of your own. This is the greatest offering of the season. So convinced. The Reliable Tailoring Co. Dept. 2157 Chicago

**HOTEL SHERMAN**

"Kansas City's Newest Hotel"  
European plan, \$1 up. Moderate priced cafe. Convenient to shopping district.  
**E. W. SHERMAN, PROP.,**  
Ninth and Locust Sts., Kansas City, Mo.



## CUT THE COST OF PLOWING

By Using Flying Dutchman Acme Shares

No matter whether you use Walking, Sulky, Gang or Engine Plows, Flying Dutchman Acme Steel Shares will greatly reduce the cost of your plowing.

These can be kept as hard and sharp as new during their entire life.

Sharp shares run easy—insure a bigger day's work—hard shares stay sharp longer—cause less delays.

The farmer himself can rearden Flying Dutchman Shares with the manufacturer's positive guarantee that they will not break in the fire or in the field.

No other share has such a guarantee.

No other share has such quality in it.

No other share can be successfully retempered after the first sharpening.

By holding a hard, sharp, keen cutting edge, Flying Dutchman Acme Shares make plowing easier—save horse flesh—save time—they actually save money.

Flying Dutchman Acme Shares are used only on plows manufactured by the Moline Plow Co.

### The Best Ever Plow

which is the best built, lightest draft, best balanced and easiest operated plow on the market, is equipped with Flying Dutchman Acme Shares and is giving excellent service everywhere.

Ask your Flying Dutchman Dealer about Best Ever Plows and Flying Dutchman Acme Shares.

Write us today for FREE ILLUSTRATED BOOKLETS.

## Moline Plow Co.

Dept. 4 Moline, Ill.

Any farmer can easily temper Flying Dutchman Acme Shares.

# LIVE STOCK



### Why Have Runts?

The desirability of having some early variety of corn or other grain has been mentioned frequently in these columns. There is hardly a year when early feed of this kind is not acceptable on the live stock farm. Old corn is almost invariably scarce and quite often high in price late in the summer. Pigs, calves and other stock subsisting largely on green forage, as they do during the summer season, do not take kindly to hard corn.

At this season of the year the careful live stock man is on the lookout for animals among his flocks and herds that are not doing quite as well as they should. It may be a litter of late farrowed pigs or possibly some calves dropped late in the summer as the flies became numerous; sometimes the gilt, with her first litter, or the young heifer with her first calf do not supply as much milk as the young should have. Only by supplying a little extra care and feed can such animals be prevented from becoming stunted and unprofitable. The natural born stockman can always be picked out by observing the manner in which he quickly observes such conditions and takes steps to correct them.

The illustration on this page shows

slowly learning. Live stock must more and more be looked upon as a means of producing meat products from the coarser feeds of the farm and field instead of as packages for marketing at a high price, large quantity of farm grown grains. The old country stock men have learned this lesson well. The handling of rough feeds and the preparing of ration from these feeds which will be palatable and finish the animals for market without much grain, has long been a fine art with the stock men of England, France and other European countries. This is the most important lesson for the live stock growers of this country to learn at the present time.

There will always be a world wide demand for meat and meat products but these products must be produced more largely from corn fodder, straw and other feeds of this nature than has been our practice in the past. Our experiment stations and our most progressive stockmen are attacking the problem of meat production in this country from this standpoint. Retaining the palatability of the low grade feeds is the most important thing to accomplish in working out the solution of the problem of producing meat products with a minimum amount of high price grain. In



THE WATCHFUL STOCKMAN IS ALWAYS ON THE LOOKOUT FOR ANIMALS NEEDING SPECIAL ATTENTION.—THESE LATE CALVES ARE GETTING THEIR FEED OF NEW CHOPPED CORN.

how a few of these late, improperly nourished calves are prevented from getting into the runt class. The owner had planned to have a little patch of early corn just back of the barn and a few of the ears of this early corn are being snapped off and chopped up with a corn knife to tempt the appetites of these calves. At the time the photograph was taken the calves had been offered the corn only a few days. The picture shows for itself how the animals appreciate this special opportunity to secure a little additional feed in a palatable form. Under the watchful eye of the natural born stock man such as the owner of these calves, we seldom see inferior, scrubby animals develop.

The armful of corn, from which these ears were snapped, was thrown over into the yard where the herd bull was kept. A bull kept up in a dry lot all summer on hay will respond most quickly to a little succulent forage of this kind with an occasional nubbin of corn added. The runty, poorly developed animals return little profit to their owner so that the supplying of proper food is not a mere matter of sentiment.

### Reducing Grain in Stock Feeding.

Early in the summer the prices that prevailed for wheat and corn were such that there seemed a likelihood of a great deal of wheat being used for feeding purposes. Conditions have greatly changed, however, during the past month. Indications now are that there will be little cheap wheat or cheap corn either, available for live stock feed the coming year. It would appear that the time of cheap grain for animal feeding is practically passed.

The finishing of meat producing animals with the minimum amount of grain is a lesson which our stock men are

this country the silo is the big factor in bringing this about.

At the present time about the only concentrated feed which is not keeping up and even increasing in price, is cotton seed meal. This by-product has actually fallen off in price during the recent weeks and is now lower than it has been for some time. The principal reason is that immense quantities of this highly nitrogenous feeding material have in the past been used by European feeders to properly balance their roughage rations.

A little cotton meal cake goes a long ways when skillfully combined with the straw, root crops and other low grade feeds used by the English and Scotch cattle feeders. The cutting out of this demand, due to the war, is leaving a larger amount of cotton seed cake for the market of this country. Feeders should be alive to this opportunity and watch prices closely. Cotton seed meal is admirably adapted to supplementing silage in cattle feeding. Finished beef can be made from silage and cotton seed meal with very little, if any, additional corn.

It is apparent that the successful stockmen must throw all precedents to the wind and handle operations solely from the standpoint of present conditions. Getting into a rut and following old time methods cannot win with the conditions that exist at the present time.

### Opportunity to Start in Sheep.

KANSAS FARMER has from time to time set forth the advantages of keeping a small flock of well bred sheep on the average Kansas farm. No animal can be placed on the market with so small an amount of grain and no animal is so useful in converting into meat the wastes of the farm as sheep. The

## New Bank For Kansas City

## SOUTH-WESTERN TRUST

## COMPANY OF KANSAS CITY

### Now Organizing

Capital \$500,000

The limited amount of stock still remaining, before the company begins operating, offers an unusual opportunity for investment in bank stock of the most desirable kind. More than fifty prominent bankers and business men of Kansas are among the stockholders. Complete information regarding the company, together with a list of stockholders, will be sent you on request.

### SOUTH-WESTERN TRUST CO.

Commerce Bldg., Kansas City, Mo.

The one security that instantly stamps its owner as substantial.

influence of the great war which is now going on in Europe will undoubtedly mean the loss of millions of sheep in Europe. The prices which have prevailed for wool during the past year indicate that the world production is barely keeping pace with the demands on the product for commercial purposes. With the increased demand for wool and the reduced production which is bound to occur, the price of this by-product of the sheep business, is certain to maintain a high level for sometime to come. It certainly seems as though there could be no more opportune time than the present to make a start in the sheep business.

As we have said from time to time, meat production must be the foundation of the business, but with the almost certainty that the wool will be high priced there should be added inducement to handle a few of these most profitable farm animals. It does not require much capital to get started with a few sheep. The percentage of increase is large and they reach maturity at an early age. The people of the United States are already beginning to realize that the great European war will bring its hardships to them. Wherever a condition arises which will work to the advantage of the people of this country it should certainly be seized upon. The increasing of our wool and mutton production under present conditions is certainly an opportunity.

**SERUM MANUFACTURE.**

**How One Firm Has Made a Success.**

The Imperial Serum Company was the fourth commercial plant built in Kansas City for the manufacture of hog cholera serum, and it has a record of having put out a pure product of high potency which has invariably given satisfaction. The plant of this company is located at Twenty-second and Genesee. It is thoroughly modern in every way, being especially complete in the line of electrical equipment and in fact wherever it is possible electricity is used because it is well known that this kind of apparatus is easiest to keep clean and sanitary. Its serum is manufactured and sold under United States government license and this of itself is a guarantee that its laboratories are in perfect condition and that its serum is pure, for they are rigidly inspected periodically by a representative of the Bureau of Animal Industry.

The Imperial Serum Company is owned and managed by Dr. C. H. Bugbee and R. H. Alexander. Dr. Bugbee is a graduate of the Toronto and Kansas City Veterinary Colleges, and was for ten years an inspector with the Department of Agriculture. He is thoroughly experienced in every detail of serum manufacture and may be classed as one of the foremost laboratory men in the United States.

Mr. Alexander was formerly a druggist and has had many years training in the line of selling and especially the sanitary handling of drugs and serum. He is a man of excellent business judgment and is the active head of the organization. Having had such a comprehensive experience in merchandising he can appreciate the viewpoint of both the buyer and seller and consequently the department of the serum business wherein most commercial companies fall down, that is the selling end, has been the most successful feature of the Imperial Company. Mr. Alexander knows he has a good product which will do what he claims it will, give immunity from hog cholera to any healthy herd, and he presents his arguments in such a forceful way that success crowns his efforts. Although the Imperial Serum Company sells only to veterinarians many farmers insist that their hogs shall be vaccinated only with the serum made by this company.—Adv.

**Metal Shingle Looks Good.**

Substitutes for wood and particularly various kinds of metal are being freely used in the erection of machine sheds, barns, chicken houses and all other farm out-buildings, but metal has not been used to the same extent as its advantages warrant in roofing. The day of the wood shingle is past; first, because of the ever-increasing cost of shingles of good quality, and second, because the various composition and metal roofings are proving more durable and consequently less expensive. We recently observed a residence covered with steel shingles and the owner of this roof was highly pleased. These shingles were interlocking and this prevents warping and buckling. The nails were driven through the under layer and are not exposed to the weather and consequently do not rust. This metal shingle appeared to us as deserving the attention of farmers who will construct new buildings or re-roof old buildings this fall. A booklet explaining the metal shingle proposition can be had by asking for Book No. 8363, published by the Edwards Manufacturing Company, Pike Street, Cincinnati, Ohio.

W. G. Merritt & Son's big Holstein sale will be held at Great Bend, Kan., September 22 instead of September 23. See their ad in this issue and send for catalogs, which will be ready to mail September 10.

# "Pittsburgh Perfect" Fences are now made of GENUINE DOUBLE GALVANIZED WIRE

## IMPORTANT ANNOUNCEMENT!

THE LATEST and greatest of all improvements we have ever made on the original "Pittsburgh Perfect" Fencing, is our new and exclusive method of **DOUBLE GALVANIZING FENCE WIRE**, which adds years of life to "Pittsburgh Perfect" Fences over any fence you have been able to obtain before now.

This is genuine double galvanizing—the secret of which has been sought after for years by the Government Investigators, Metallurgists and Manufacturers the country over.

But mark this—our method of double galvanizing is possible only because of the high quality of the special-formula Open Hearth wire we use. It is of that perfectly uniform texture absolutely necessary to

absorb the galvanizing metal, and the only wire that will take the proper heat treatment and can be actually galvanized.

By numerous scientific tests of many kinds we have proved, beyond question or doubt, that our fencing is now twice as durable as any fencing you have been able to obtain heretofore.

**SOLD BY DEALERS EVERYWHERE UNDER THIS**

## UNCONDITIONAL GUARANTEE

Our Dealers are authorized to ABSOLUTELY GUARANTEE "PITTSBURGH PERFECT" FENCING to be in every respect exactly as we represent it. Back of this guarantee stands the Pittsburgh Steel Company, owning and operating the largest independent plants in the world manufacturing Fencing, Nails and Wire.

YOU CANT LOSE when you buy "Pittsburgh Perfect" Fence on the strength of this guarantee. Our new catalogue, just off the press, is full of fence information; you need it, whether you want to buy fence now, or will later on.

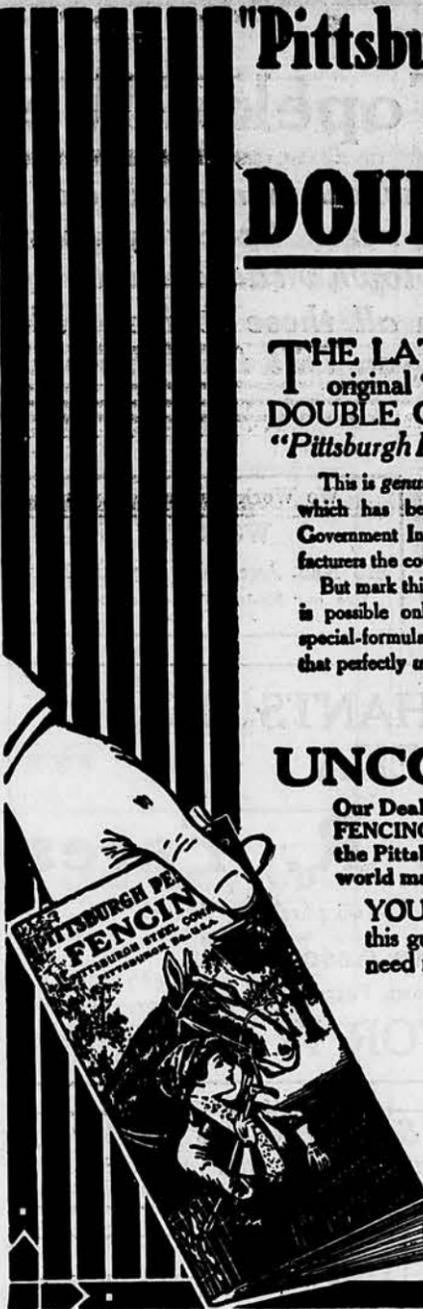
Address Nearest Office. Ask for Catalogue No. 26

## PITTSBURGH STEEL COMPANY PITTSBURGH, PA.

NEW YORK CHICAGO DULUTH ST. LOUIS MEMPHIS DALLAS

We Manufacture, from the Ore in our Mines to the Finished Product, "Pittsburgh Perfect" Brands of Pig Iron; Blooms; Billets; Wire Rods; Bright, Annealed and Galvanized Wires; Barbed Wire; Hard Spring Coil Wire; Twisted Cable Wire; Telegraph and Telephone Wire; Straightened and Cut Wire; Bale Ties; Poultry Netting Staples; Fence Staples; Regular and Galvanized Steel Wire Nails; Smooth Foundry and Plaster Board Nails; Large Head Felt Roofing Nails; Coated Nails; Blued Nails; Steel Hoops; Steel Bands; Cotton Ties; "Pittsburgh Perfect" Electrically Welded Wire Fencing.

Write for this NEW CATALOGUE today!



AGRICULTURAL BUILDING  
40,000 SQUARE FEET OF  
SPACE FOR EXHIBITS

## Horse Show Nightly

In Brilliantly Illuminated Pavilion, 200 by 400 Feet—Seating capacity for 5,000. Conway's Band and Singers. Harness and High School Horses, Expensive Turnouts and Fancy Hitches from Finest Private Stables that Compete in Big Eastern Shows. Entries that show at Chicago, St. Louis, Kansas City. Spacious private boxes and comfortable reserved seats.



MERCANTILE BUILDING  
SPACE FOR 400 TEXTILE, ART  
AND MANUFACTURERS EXHIBITS

THE HORSE BEAUTIFUL WILL BE SEEN AT HIS BEST.

# THE KANSAS STATE FAIR ASSOCIATION

TOPEKA, SEPTEMBER 14-15-16-17-18, 1914

T. A. BORMAN, President.

GEORGE E. CLARK, Secretary.

## Mammoth Live Stock and Agricultural Exhibits

\$22,500 in Premiums in Agricultural, Horticultural and Live Stock Departments. Judging and Prize Winners' Parade in Live Stock Arena daily.

## 24 Permanent Buildings and Barns

New Modern Buildings for 2,000 Head of Show Stock. Fire-Proof Brick and Concrete Horse and Cattle Barns. Forty Thousand Square Feet in Agricultural Building. Four Hundred Exhibitors in Mercantile Building.

## Ten Acres Devoted to Farm Machinery

The Greatest Display of Power-Driven Machinery. Latest Devices that Interest the Farmer. Silo Exhibits. All Lines of Manufacturing Represented. An Educational Feature of the Fair.

## Dairy Exhibit and Butter Fat Contest

The Finest Dairy Herds in the West. The Newest in Dairying Methods and Machinery. Lectures by Experts. A Department Where Every Dairyman Can Learn.

Patrick Conway's Famous New York Concert Band of 40 Pieces and Grand Opera Singers in Two Concerts Daily.

## Special Days During the Big Fair Week

Monday—Children's Day; G. A. R. Day. Tuesday—Topeka Day; Fraternal Day; Kansas Derby; Commercial Travelers' Day. Wednesday—Farmers' Day; Special Features of Interest to Farmers and Breeders; Programs of Speaking, Lectures, Demonstrations and Displays for Farmers, Farmers' Clubs, Granges, Farmers' Unions. Thursday—Kansas Day; Governor's Day; Political Day. Friday—Live Stock Review Day.

## 5 Days Racing on the Fastest Half Mile Track in the West

\$11,200 in Stakes and Purses for Nineteen Harness Races. 223 Entries in Events closing July 1. \$1,400 in Purses for Runners. \$400 Purse for Kansas Derby.

Marshall's Band and Special Acts Daily—The Great Live Stock, Agricultural and Industrial Exposition of Kansas.



CATTLE BARN  
STALLS FOR 500 HEAD  
OF SHOW CATTLE.



HORSE BARN  
STALLS FOR 300 HEAD  
OF EXHIBITION HORSES

# State Fair Visitors—Topeka Welcomes You

The city is yours and the merchants whose names appear below welcome you to make their stores your headquarters while here. Special preparations have been made by these merchants to take care of out of town visitors and the phones, rest-rooms, free check stands, in fact every convenience, in all these stores, will be at your command. Each store will offer choice bargains and you will find the best and most reasonable prices within their doors.

**MAKE**  
**Berkson's Your Goal**  
 In the practice of economy and search for the newest and smartest styles in  
**WOMEN'S COATS**  
**SUITS—DRESSES**  
**SKIRTS and WAISTS**



**CLOAK & SUIT CO.**  
 707 KANSAS AVE.

**THE**  
**Office Supply Co.**  
 Stationery & Business Supplies  
 509 Kansas Ave.

We Work Day and Night  
**WOLCOTT**  
 825 Kan. Ave. Topeka, Kan.  
 Use our Kodak Free—Get one for Fair Week.

**SUIT OF O'COAT**  
 MADE TO MEASURE  
**\$15.00**  
**SCOTCH WOOLEN MILLS**  
 532 Kansas Ave.  
 Tel. 512

**The MERCHANTS OF TOPEKA**  
**Refund R. R. Fares**  
 To the extent of 5 per cent of all purchases through  
**Topeka Rebate Association**  
 To Out-of-Town Patrons  
**ASK FOR IT**

**MATT G. GLASSE**  
 Fine Clothes  
 Made-to-Order  
 On East Eighth Street, Next to the "Hip"

You will find all that is best in millinery at the  
**Topeka Millinery Company**  
 Barbara Tauer  
 727 Kansas Avenue Topeka, Kansas

Phone 1082 105 West Sixth  
**Hasty Messenger & Express Co.**  
 E. D. THATCHER, Prop.  
 Delivers Trunks, Packages and Messages.

For Newest Fall Styles  
**Daynes Shoes**  
**THE BIG SHOE STORE**  
 715 Kansas Ave.

**TOPEKA TENT & AWNING CO.**  
 HIGH CLASS TENTS AND AWNINGS  
 Sole manufacturers of Lateral Awning Arms. Tents of all kinds and sizes for rent.

**FOR STOCK SALE SIGNS**  
 OR  
 Signs of Any Kind  
 See Write or Call  
**HINKSON SIGN CO., Topeka, Kas.**

**U. V. Laundry**  
 Dry Cleaning, Pressing and Repairing  
 High Class work in every respect  
 Give us a trial and be convinced  
 Phone 683 218-218 W. 6th St.  
 Or send by Parcel Post  
**TOPEKA, KANSAS**

**Hollcraft**  
**FLORIST**  
 Office Phone 176W Res. Phone 176R  
 807 KANSAS AVE.

Latest and Most Exclusive Patterns in  
**MILLINERY**  
 Will be Found State Fair Week at  
**PICKENS**  
 Ladies Hatter  
 809 Kansas Ave.

**GLENWOOD HOTEL**  
 EUROPEAN  
 Popular Prices, 50c to \$1.50

**Matthews & Bowman**  
**MEN'S APPAREL**  
 611 Kansas Ave.

We Fill Prescriptions by Mail  
**WALKER'S DRUG STORE**  
 SIXTH and JACKSON STREETS

**The "GIFT SHOP"**  
 RALPH R. PETERSON  
 106 W. Eighth St.  
 For New and Artistic Things in Jewelry  
 Gruen Verithin and Wristlet Watches  
 Hamilton, Howard, Elgin and Waltham  
 Watches All Grades  
 Fine Watch and Jewelry Repairing

While in Topeka attending the Fair let us fill your lunch basket. Our Delectatessen Department is the best in the West.  
**IDEAL BAKERY**  
 "Home of Butter Nut Bread"  
 Phone 190 6th and Jackson Sts.

**Fritton Grocery Co.**  
 Staple and Fancy Groceries  
 1000 E. 4th Phone 5235

**REHKOPF BROS.**  
 Established in Topeka 23 years.  
**QUALITY BUGGIES**  
 At Reasonable Prices  
 High-class  
 Buggy and Auto Repairing

**STATE FAIR VISITORS**



**Your Trunk Moved or Stored Free**  
 C. D. SKINNER, 611 Quincy St.

**The E. L. Overton Eng. & Supply Co.**  
 All Kinds Electrical Work a Specialty  
 107 West 6th St. Topeka, Kans.

**CANDY BY MAIL**  
 To introduce Batman's famous Topeka candy "Cleveland's Choice" to new customers, we will send one pound of "Cleveland's Choice"—pure, clean chocolate candy by mail anywhere in Kansas or adjoining states, put up in a fancy box for only 60 cents. Send us your candy order for parties, weddings.  
**BATMAN'S, 720 Kan. Ave., Topeka**

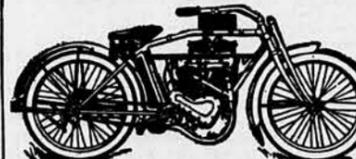
You are invited here  
**The Addis Jewellery Store**  
 817 Kansas Ave.  
 The Distinctive Jeweler

**G. SCHMIDT**  
 Merchant Tailor  
 Phone 259 604 Kansas Ave.  
**TOPEKA, KANSAS**

**We Pay You!**  
 North American Acc. Ins. Co.  
 C. B. Jordan, Gen'l Agt.  
 425 New Eng. Bldg., Topeka, Kans.

**THE Boeger Studio**  
 High Class Photography  
 Phone 3989  
 707 Kans. Ave. Topeka, Kan.

Merely this—  
 Investigate the New Two-Speed  
**YALE Motorcycle**



Write for information or call at our store in Topeka.  
**J. C. HARDING CO.**  
 108 E. 6th Street

**The Antiseptic Barber Shop**  
 Largest, Cleanest and Best in Kansas  
 Ten Chairs, Up-to-Date Sanitary Service  
**U. B. NEXT**  
 Under Central National Bank  
 700-702 Kan. Ave. Topeka, Kan.

**THE FELIX CLOTHING COMPANY**  
 I. W. Felix F. W. Griggs  
 (Next to the National Hotel)

**W. J. LEWIS**  
 The Highclass Eyeglass Man  
 Jeweler Optician  
 809 KANSAS AVENUE  
 Sign Big Spex.

# Welcome To Topeka — Come And See Us

The advertisers on this page welcome you to make your headquarters with them. All conveniences will be at your command. Meet your friends at these places where every courtesy and consideration will be given you. The stores will offer bargains and the employees of these institutions will render all assistance to promote your stay a pleasant one. These advertisers are the leaders in their various lines. Keep these pages for reference.

## KANSAS MOTOR CAR CO.

One Block East, One Block South of Postoffice.

Special Fair Week Storage Rates  
Responsible for all packages left in cars.  
Make our garage your headquarters.

REPAIRS . . . GASOLINE . . . SUPPLIES  
HUDSON SIXES

## PAIGE

AUTOMOBILES GIVE THE MOST VALUE FOR EVERY DOLLAR INVESTED. A real dollar's worth for every dollar of selling price. \$1,195.00 for a 36 horse power, fully equipped five-passenger touring car, using the famous large size Gray and Davis starting and lighting system, Bosch Magneto, Multiple Disc Clutch running in oil. A unit power plant with a three-point suspension. 116-inch wheel base with 34 x 4 tires and a GENUINE Honey Comb Radiator. This car is not an assembled product, but MANUFACTURED IN THE PAIGE FACTORY, THE MOST UP TO DATE FACTORY IN THE BUSINESS.

W. H. IMES & CO.,  
914 Kansas Ave., Topeka, Kan.

## M. L. Zercher, Book and Stationery Co.

TOPEKA, KANSAS

Books, Stationery, Office Equipment,  
Shaw-Walker Filing Cabinets

W. S. LINDSAY, A. M., M. D.  
Mental and Nervous Diseases

MERRILL K. LINDSAY, M. D.  
Surgery

## LINDSAY & LINDSAY PHYSICIANS & SURGEONS

829 Kansas Ave

TOPEKA, KANSAS.

PHONE 230

## THE GERMAN AMERICAN STATE BANK

3rd and Kansas Ave.

Deposits Guaranteed  
Interest Paid on Time Deposits

DEPOSIT YOUR MONEY FOR SAFE KEEPING  
In the

## CENTRAL NATIONAL BANK

TOPEKA, KANSAS

Capital and Surplus, \$270,000.00

Telephone 248

## The Capital Shirt Factory

L. C. RAHN, Proprietor  
Makers of

MADE TO MEASURE SHIRTS

624 Kansas Ave.,  
Topeka, Kansas

## FARM MORTGAGE COMPANY

Loans & Investments

Will place conservative loans in Norton, Graham, Trego, Ness, Hodgeman, Ford, Gray, Clark and any county east thereof. Money ready when papers executed and title approved. Good options! Write us for rates!

Mulvane Bldg., Topeka, Kansas.

## AUTOISTS

Get our new 1914 catalogue of supplies and accessories — we carry everything for the automobile — prompt service, best goods, fair prices — largest supply house in state — special proposition to dealers and garage men.

SOUTHWICK AUTO SUPPLY CO.,  
925 Kansas Ave. Topeka, Kansas

## C. M. HILL & SON

WALL PAPER and PAINTS

826 Kans. Ave. Phone 825

## THE Topeka State Bank

Interest on Deposits — Guaranteed Under the Laws of the State of Kansas.  
TOPEKA, KANSAS

While in Topeka, Fair Week, step into

## THE TOPEKA ELECTRIC CO.

816 Kansas Ave.  
We carry a complete line of Electrical and Gas Fixtures and appliances. Special prices to out of town purchasers.

Salary and Commission paid to good men to sell Germania Life

## Insurance for GEO. GODFREY MOORE AGENCY.

New England Bldg., Topeka, Kan.

## GIBLER'S

The most Reasonable  
and Reliable Drug  
Store in Topeka

Corner 4th & Kansas Ave.

SUITS O'COATS  
TO MEASURE

## Ira W. Burdick

125 W. SEVENTH  
PHONE 3201

UNIFORMS TROUSERS

North American Life Insurance Co.,  
Topeka, Kans.

Without obligation on my part please send me particulars regarding your 20 pay life reduction premium policy.

Occupation . . . . . Age . . . . .  
Name . . . . .  
Address . . . . .

## HOTEL THORNE

EUROPEAN  
Rates 50c, 75c, \$1.00; With Bath \$1.50  
Per Day

Opposite Santa Fe Depot, Topeka, Kan.  
C. S. ALEXANDER, Propr.

## A Kansas Institution THE ALLIANCE CO-OPERATIVE INS. CO.

Topeka, Kansas.

18 years old, \$13,000,000 insurance in force. Reserve fund \$80,000.00. The only Fire Co. in Topeka.

Writes all kinds of farm and city property on mutual plan. Grain insurance a specialty. Responsible agents wanted in unoccupied territory.

## The C. C. BOOHER Moving and Storage Co.

419 E. FOURTH ST.  
PACKING AND PIANO MOVING.

## GOOD MORNING FOLKS

Won't You Try  
Our Dainty  
Dairy Lunch  
and  
This Noon?  
Don't Forget  
That Our Pies  
and Cakes Are  
the Very Best  
Ever!

**P A S H O**  
the Good Bakery  
710  
Kansas Avenue

## JUNK WANTED

WAR PRICES PAID.

Look at the list of valuable things ordinarily thrown away that you can turn into money.

We want old rope, rags, tin, copper, brass, lead, rubber boots, old tires, hose, old machinery, bones and dozens of other things that you can pick up at a profit.

## YOUR PROFITS WILL SURPRISE YOU

Write for our terms to Agents.

On every farm there is a quantity of the above articles. Pick them up the first rainy day and write to us for a quotation. Car loads or local shipments are solicited. In some counties we have agents systematically gathering junk and making fine wages. WE WANT MORE SUCH AGENTS.

Shippers will find it to their advantage to ship to us as our long experience in this business enables us to handle your goods at the best advantage.

Quick returns are our strict rule. If you do not know how to select and gather junk, we will be glad to have you write to us for information.

## DYAL BROS. & CO.

212, 214, 216 North Kansas Ave.  
TOPEKA, KANS.

## H. W. Bomgardner

Funeral Director

and

Licensed Embalmer

Masonic Building

621 Jackson Street

Phone 146 W

## FIRST CLASS AMBULANCE SERVICE

Folding Tables and Chairs for Rent

## ENGINES AND PUMPS.

Simplicity, durability and efficiency is what you want in machinery.

We have it. Our engine has none of the troublesome igniting features; no carburetor, no spark plug, no battery, no magneto, no cam, no gear. Burns the low-grade, cheaper oils.

Our machinery has none of the Give-Trouble parts. Write for circular. VALK MFG. CO., 912 Jefferson Street.

# CONSIGN YOUR STOCK TO THE ST. JOSEPH STOCK YARDS

## NATIONAL LIVE STOCK COMMISSION COMPANY.

The National Live Stock Commission Company in volume of business is among the largest in the world. It has six branch houses, located in Chicago, Kansas City, St. Louis, Omaha, Fort Worth and St. Joseph, and rank among the very best in each of these markets. It does a general commission business in cattle, hogs and sheep, but never handle anything of a speculative nature. The company is financially strong and employ the best salesmen it can get, and consequently do things and accomplish results for shippers which smaller firms cannot. The St. Joseph office of this company is in charge of James C. Sager as manager. He has been active in this market for sixteen years and has for six years managed this company. It has been largely due to the close application he has given the business, with its consequent satisfaction to shippers, that has made the National one of the best companies to do business with in St. Joseph.—Adv.

## FIGHTING HOG CHOLERA.

Attention has been again called to the fight against hog cholera by the government's appropriation for experimental work in the various states. One of the biggest drawbacks in combating this dread disease has been inferior serum. The hog raiser frequently was induced to try the treatment after hard work and then obtained only disastrous results.

Under the stringent inspection of the federal government the conditions in favor of a successful fight against this disease are wonderfully improved. Plants are now built with the knowledge that they will be closely inspected and must come up to certain standards to be licensed to do business.

There are several model plants in Kansas and Missouri any one of which would be a good example to hold up before all serum manufacturers. One of these is the plant of the St. Joseph Live Stock Serum Company, located at the stock yards at St. Joseph, Missouri. This company, although it has been in business for sometime have just completed this season, two new buildings which make its plant and laboratories second to none from a standpoint of sanitation and convenience.

From beginning to end no detail has been overlooked in the construction of the plant which would contribute in any way to the sanitary manufacture of good potent serum. Even now just as the expensive additions to their plant have been finished the officers of this company say that they are ready and willing to accept anything new that can be shown to have merit. Two innovations that are found in this plant of particular interest are, the live steam sterilizer and the compressed air bottling device. The former is a large iron cylinder with a removable head in each end. One of these heads opens into the wash room and the other into the serum laboratory. By this arrangement vessels and instruments may be taken to the wash room and cleaned in the big tub provided for that purpose. They are then placed in the sterilizer and rendered aseptic with live steam. They are then taken out the other end of the cylinder directly into the room where they are to be used.

The other innovation is a bottling device. A metal container holding several gallons, but small enough to be placed inside the sterilizer, is so arranged that it can be made airtight. Serum is placed in this receptacle when ready for bottling and compressed air forced through alcohol to purify it, into the tank. This increased pressure within forces the serum through a tube into a graduated container which measures the serum and puts it into the bottle without pouring it or exposing it to the air. These are but two of the complete details in connection with this plant which show how complete it is. The quality of the serum made is consequently of the very best. This is shown by the fact that last year one man used \$9,000 worth of this company's serum and said he only lost fourteen out of twenty-two thousand hogs vaccinated.

The officers of this company are: L. E. Cooper, president; H. M. Gillett, treasurer and E. J. Netherton, secretary and laboratory supervisor. Mr. Cooper

has been connected with the live stock business for a great many years and is an expert judge as well as salesman of hogs. Mr. Gillette is also a man of long experience in the hog and cattle business and attends to the buying of stock for use at the serum plant. Upon Dr. Netherton, however, falls the responsibility of supervising the actual manufacture of the serum. He is a man of thorough training, having practiced as a veterinarian for eighteen years, owning one of the finest veterinary hospitals in the state. Dr. Netherton is one of the ablest men for his position in the United States. He comes from a family of doctors and has been such a close student of new ideas that his methods include every new and proven theory of any consequence. With a man of this caliber in charge of its plant, which includes in its equipment everything possible in modern appliances, it is no wonder that the St. Joseph Live Stock Serum Company has made such an enviable reputation for its serum.—Adv.

## PERSONALITY IN SERUM MAKING.

### How One Man Has Permanently Associated His Name With This Industry.

No one man has done more for the advancement of the commercial manufacture of hog cholera serum than the late Mason S. Peters. He was one of the most active in the original research work for the practical use of this remedy in combating hog cholera. It is very much to be doubted if this honorable gentleman had any intention of making money out of the exploitation of serum, but rather we believe it was his object to gain relief for the hog raisers and farmers in general from the worst scourge to which animals are heir. When it was proved to be a successful form of treatment, or rather a successful method of obtaining immunity, he did engage in the commercial manufacture of the product.

In this field he was also leader and made a tremendous success. This is not to be wondered at when one realizes that Mr. Peters had been actively engaged in various live stock interests all of his life with the exception of the time he served

Mr. N. A. Peters, who is now managing this plant, was formerly engaged at the Sioux City plant and afterwards in Kansas City. He has had charge of the St. Joseph plant for a year and a half and now has the most successful business in his territory. This plant was the original in St. Joseph and has always lived up to its reputation of never turning out any batch of serum that was not of absolutely first quality, both in purity and potency. Mr. Peters is himself expert in every detail of the manufacture of this product and, although he has competent veterinarians associated with him, is able to perform any part of the work. For the most part, however, Mr. Peters confines his efforts to the selection and purchase of good stock for his plant and the managing of the details in the office.

Dr. A. W. Ester, a graduate veterinarian, is in charge of the plant. He is one of the most skillful and experienced veterinary surgeons in the serum business and qualified in every way to supervise such a laboratory. Doctor Ester is ably assisted in the handling of this plant by Dr. H. W. Schirmer, who is also a graduate veterinarian. It is without doubt due to the careful manner in which these doctors conduct each and every operation in the United Serum Company's laboratories that it can be said that there has never been a complaint from any user which could be traced to any fault of the serum.

Mr. N. A. Peters is certainly to be congratulated upon the success he has made as a manufacturer of serum, for success in this business means careful watching of infinite detail and can be judged only by results after the product has been used. In this case results are perfect.—Adv.

## CARE IN SERUM MAKING.

### Experience and Sanitation Essential in Producing Safe Serum.

Throughout this country of ours no one subject has occupied so much attention recently as the high cost of living. One big factor in the solution or partial alleviation at least of this expensive situation is the national fight against hog

cholera. Since the government, through its Department of Animal Husbandry discovered hog cholera serum and proved its efficiency the hog raiser has had some encouragement to build up his herds. He has been shown that vaccination now will give him cheap insurance against the greatest and most expensive scourge that can befall live stock.

The government perfected this serum but it was Mason S. Peters who tried it commercially and demonstrated its use. He it was who secured the services of a government veterinarian and made the tests on the now famous "poison squad" at the Kansas City stock yards. From that beginning has grown a tremendous industry in which thousands of dollars are invested and many experts employed. In the beginning farmers had a right to be a little skeptical of hog cholera serum. It is conceded that the initial activities of the serum companies were responsible for much of the spread of cholera, in fact many ranches formerly free from its ravages were actually infected by bringing sick hogs from a neighbor's yards and putting them in the midst of a healthy herd after vaccinating in order to supply the necessary cholera germs to give immunity. Now the serum and cholera blood or virus are both injected into the animal in what is known as the double or simultaneous treatment and the result is absolute immunity for the life of the animal.

Anti-hog cholera serum is made from the blood of a hyper-immune hog; that is, from the blood of an immune hog into which cholera blood has been injected. The hog into which the cholera blood is injected must be absolutely immune to cholera. He must have had cholera and recovered, or have been made immune by vaccination. Several days after the cholera blood has been injected the hog is hyper-immune and his blood may be drawn for serum. The fact that a hog can thus be made artificially immune proves beyond question that the serum prevents cholera, otherwise a hog after being injected with cholera blood would inevitably succumb to the disease.

After a hog has been made hyper-immune there are two ways of getting his blood for serum. The original way was to bleed from the tail by cutting off the end at intervals of about two weeks and re-hyper after four bleedings and continue this as long as the hog had any tail, then kill him and get all of his blood. The newer way, originated and first put into practice by Mason S. Peters, and one preferred now is to kill the hog and get all of his blood the first time and not tail-bleed at all. This gives more potent serum and has the additional advantage of a post mortem examination of the carcass immediately to detect any other disease that may be present such as tuberculosis.

Mason S. Peters, who organized the first commercial serum company in the United States in 1908, was in the live stock commission business for 35 years. He spent his whole life, with the exception of his term in Congress, in various live stock pursuits and rounded out one of the most successful careers among Kansas City's business men before his death a few months ago.

At the time of his death he had his six sons all associated with him in the manufacture of hog cholera serum and was operating seven separate plants. The business of the Kansas City office is now in charge of W. G. Peters. He has been active in the business for a number of years and is thoroughly familiar with every detail of the manufacture of hog cholera serum. Mr. Peters is on the job daily and it is largely due to this untiring energy as well as intimate knowledge of his business that accounts for his phenomenal success.

The plant of the National Serum Company is located at the corner South Second and Myers streets, and the offices at 634 Live Stock Exchange. Upon entering their laboratory one receives the impression that he is entering a hospital. Everything is in white and even the windows are covered with cheesecloth as a dust protection. Every receptacle about the laboratories is carefully sterilized in a large especially built plant for that purpose and is then put away until needed. Everything possible is done to prevent contamination of the serum or virus during its manufacture and so adroitly are the safe guards placed in the National Serum Company's plant that it is safe to say there is no chance for a foreign element of any kind to get into their serum.

The laboratories of the National are in charge of Dr. Geo. Butin, who was with the government for twelve years and during four had charge of all the veterinarians at the yards in Kansas City, and Dr. John D. Thrower, who was head government man at Armour's previous to his connection with this company. With such men as these in charge considering all the scientific training they have had, it is small wonder that the National has attained the reputation it enjoys for marketing only the most potent serum or virus.

In the beginning the business of this company was built up on a basis of honesty and integrity and the customers once gained by such a business practice are always retained. Although this company sold enough serum to vaccinate over one hundred thousand hogs last year they had no complaint traceable to the serum. A record like this is to be envied and probably accounts for the fact that among competitive manufacturers and users of serum alike praise of National Serum Company products is everywhere evident.—Adv.

Agriculture is the world's principal industry. With ocean transportation facilities and means of communication highly developed, agriculture of this and other countries is international in scope. Hence the far-reaching effect of Europe's titanic war in Kansas and other commonwealths of the United States.



THE LATE MASON S. PETERS AND HIS SIX SONS, ALL MAKING SERUM.

in Congress. Mason S. Peters was successful in the serum business because he was a practical man with abundant experience in the care of live stock to draw upon. He surrounded himself with able and efficient assistants and used every effort and resource at his command to make the most potent serum possible. At the time of his death a few months ago Mr. Peters was operating seven distinct serum plants in as many cities and he had all of his six sons associated with him in the business. Under these conditions the business has been continued with each of the boys managing a separate plant, and it is safe to say that the name of Peters will be prominently associated with the manufacture of hog cholera serum for a great many years to come.

The Mason S. Peters United Serum Company of St. Joseph, Missouri, is in charge of N. A. Peters and one of the most successful of the chain of plants. This St. Joseph plant resembles nothing so much as a hospital laboratory and is in every way as clean and sanitary. They have a separate building for each operation in the development and killing of serum hogs. The cholera pigs are killed and their blood used for hypering in an adjoining room without ever having been taken out of the building. Another building is provided for the killing of serum hogs and here in turn the serum is prepared without possible contact with any contaminating air. Other smaller buildings are provided for changing clothes, storing serum in the cooler, etc.

cholera. Since the government, through its Department of Animal Husbandry discovered hog cholera serum and proved its efficiency the hog raiser has had some encouragement to build up his herds. He has been shown that vaccination now will give him cheap insurance against the greatest and most expensive scourge that can befall live stock.

The government perfected this serum but it was Mason S. Peters who tried it commercially and demonstrated its use. He it was who secured the services of a government veterinarian and made the tests on the now famous "poison squad" at the Kansas City stock yards. From that beginning has grown a tremendous industry in which thousands of dollars are invested and many experts employed.

In the beginning farmers had a right to be a little skeptical of hog cholera serum. It is conceded that the initial activities of the serum companies were responsible for much of the spread of cholera, in fact many ranches formerly free from its ravages were actually infected by bringing sick hogs from a neighbor's yards and putting them in the midst of a healthy herd after vaccinating in order to supply the necessary cholera germs to give immunity. Now the serum and cholera blood or virus are both injected into the animal in what is known as the double or simultaneous treatment and the result is absolute immunity for the life of the animal.

Anti-hog cholera serum is made from the blood of a hyper-immune hog; that is, from the blood of an immune hog into which cholera blood has been in-

# POULTRY



It is always in order to clean out the poultry house. It can never be done too often or too thoroughly.

At this time of year the chickens look ragged and dilapidated and are in full molt. They are often totally neglected at this trying period when they ought to have the most careful attention.

Of the making of new varieties of poultry there is no end. Red Orpingtons are the latest novelty, a variety produced by crossing Black and Buff Orpingtons and the old Red Dorking. The originator hails from Sussex, England.

If you have any fowls that are worth exhibiting, you should send them to the State Fair at Topeka, September 14 to 18. The premiums on poultry are more liberal than at any other western fair, and the entry fees are only 25 cents a bird or \$1 a pair.

Every poultryman should try to conduct his business as carefully as he would any other business, for it is the small savings that make for profit in every business. Unnecessary losses have no excuse in any business, and poultrymen who aspire to become masters of the business should try to prevent them.

If you are thinking of sending some birds to the Panama-Pacific Exposition at San Francisco next year, you can get a premium list now by writing to D. O. Lively, superintendent of the live stock department. In the poultry department no entry fee will be charged, but a nominal charge is made for coop rent, feed and handling. The premiums in both single and pen classes are very liberal.

Keep all your early-hatched pullets

and get them started to laying as early as possible, for strictly fresh eggs will be at a premium this fall. The European war has already sent the price of eggs soaring, along with sugar and other commodities, and the highest price is not yet in sight. Before the war commenced poultry experts predicted that fresh eggs would be selling at 75 to 80 cents per dozen in New York City in November and December. This was simply on account of the scarcity of beef; so what may one expect if the war holds on for some months? Take good care of your pullets. They are money-makers.

The partial failure of the corn crop leaves wheat as the mainstay of the poultryman for his chicken feed the coming season, and there is no one feed that is better for the fowls. However, if you must have mixed grains, it is better to buy each kind separately, and mix them on your own premises, according to some formula you may have found that is adapted to your own needs. In this way you will not need to buy such grains as you do not care for, and you will be much surer of the quality of each kind you use, for sometimes there is a mixture of dirt and weed seeds and damaged grain when all are together. In some mixed chicken feed that we have recently bought were a large proportion of ground corn cobs put in to increase the bulk and the weight. The grain inspector's duties ought to be enlarged so as to enable him to test and examine the feed that is sold by grain dealers as well as to test the grain sold by the farmers. Where one raises his own grain, whether it be wheat, kafir, or any other grain, it is obvious that more of that kind will be fed to the chickens than any other, for what he buys will certainly be more expensive than what he raises.

# RUMELY Power Farming Machinery



## Save Every Rain

Keep the soil cultivated and plow fast, deep and at the right time. You have a tractor that furnishes the right power for such jobs, if you own a

15-30 Horsepower **OILPULL** 30-60 Horsepower

The OilPull saves expense as well as moisture. It burns cheap kerosene or distillate at all loads. It saves time. With it you can work fast—you can plow, seed and pack the soil at one operation if you want to.

The OilPull is easy to start and easy to operate, and will harvest, haul, thresh, pump and do dozens of other jobs for you. Get OilPull catalog EB15. It describes all this.

In gasoline tractors, the GasPull is a leader and if you want the best in stationary engines, the Rumely-Falk for kerosene and the Rumely-Olds for gasoline will be sure to suit you. Every Rumely machine is backed by Rumely service—49 branches and 11,000 dealers. Supplies and parts on short notice. **RUMELY LINES**

Kerosene Tractors Gasoline Tractors Steam Engines Engine Gang Plows Threshing Machines Clover Hullers Gasoline Engines Oil Engines Baling Presses Cream Separators Corn Machines Lighting Plants

## RUMELY PRODUCTS COMPANY

Chicago (Incorporated) Illinois  
Wichita, Kan. Lincoln, Neb. Kansas City, Mo.

READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

**"It cost me only \$8888"**

**COLUMBIAN BIN**

**\$8888**

**1000 Bu.**

2,000,000 Bushels of Wheat have been stored in **Columbian Metal Grain Bins** so far this season, representing a gain to the owners of at least one-half million dollars, which in all probability will be doubled or trebled. Without **Columbian Metal Granaries** this wheat could not have been held and this profit made. \$2.00 wheat is bound to come. Even without the war Europe would have needed every bushel of wheat we could spare. Holding your grain is the wisest thing you can do. The **Columbian Metal Granary** is the best investment you can make. Many owners have not only paid for their's but have made \$200 besides on their investment. You can do the same or better.

### For Wheat or Corn

At a small additional cost we will furnish you this bin suitable for either corn or wheat. This is done by special perforations that gives more ventilation for corn, yet keeps out the rain and at the same time holds the smallest grains of wheat. This gives you an all round bin suitable for any storage purpose.

### Send No Money

See your dealer today or use the attached coupon. Give us the name of your bank and we will send them the bill-of-lading with draft attached. If you are in a big hurry wire in your order or have your dealer do so. A 1,000 bushel wheat bin costs only \$88.88. The Combination wheat or corn bin \$91.88. 500 bushel bin \$66.66. 500 bushel combination wheat or corn bin \$69.66. These prices include the freight to your station.

**Warning!** Be sure to get a Columbian Bin. Accept no substitute. If your dealer cannot supply you we will. Write today. Don't delay.

### No Delay. Prompt Shipment.

You should have your COLUMBIAN bin up on your farm within a week after sending your order. We have special equipment enabling us to make a bin every four minutes. It can be shipped a few hours after your order is received. We furnish all tools, bolts, etc. and with a helper or two you can make short work of putting it up. It can be erected at the stack and the wheat threshed directly into it. When empty it can be moved anywhere. It is rat-proof, rain-proof, and will keep your grain in perfect condition. Being made of the best grade galvanized steel with heavily reinforced joints, this granary is strong and rigid. No other bin is so well made. Write for free circular or send in your order today.

**Columbian Steel Tank Co., 1601 West 12th Street, Kansas City, Mo.**  
Also Manufacturers of Columbian Metal Silos. Write for Catalog.

**USE THIS COUPON!**

Columbian Steel Tank Co., 1601 West 12th Street, Kansas City, Mo.

Please send me one **Style "A"** Metal Combination Granary of \_\_\_\_\_ bush capacity. Price \$ \_\_\_\_\_

NAME.....  
STATION.....  
P. O.....  
of.....  
STATE.....  
Send Draft to..... Bank.....



RESERVOIR LIFTS OFF AND ON EASY AS A WASH BOILER.

MAJESTIC MAJESTIC

The 15 gallon all copper reservoir heats water as quickly as a kettle on a stove top; oven door lowers onto heavy braces; oven rack stays level, under load, when pulled out. Reservoirs flush with stove top have aluminum lids.

## Good cooking made easy!

Good cooking depends as much on the range as on your skill. A cheap range or worn out stove makes cooking uncertain; and often spoils your best efforts.

Is that fair to you, or to your family, whose health and good humor are effected by what you serve?

The Majestic makes good cooking easy and sure. Made of charcoal iron and malleable iron; it stands rust and wear three times as long as ranges made of ordinary range metals. Put together with cold rivets that keep the joints absolutely tight always, (no putty used.) Lined with extra heavy pure asbestos that holds in the heat and reflects it onto oven. Scientifically designed to maintain uniform temperature with least use of fuel; and to circulate heat evenly to all parts of oven. You never have to "turn the baking" in a Majestic.

The cost of a Majestic, in service, is less than that of any ordinary range. The fuel, repairs and work it saves and the years longer that it lasts, more than offset its little extra cost.

If you realized how much the Majestic reduces the work and worry of cooking, you would get one now. Find out! If you don't know the Majestic dealer near you, ask us. (There is one in every county of 40 States). Write for Range Comparison explaining the many Majestic points of superiority.

Majestic Mfg. Co., Dept. 140 St. Louis, Mo.

## Great Majestic Malleable and Charcoal Iron Range



(One quality - many styles and sizes, with or without legs)



## Electric Lights

### At LOW COST! For All Your Farm Buildings.

A Plant made purposely for Farms and Country Homes. Clean, brilliant, safe, dependable light; no dirt or trouble—no danger of fire or explosion. Low initial cost. Almost no running expense. Your house and all your buildings can be cheaply and quickly fitted with electric lights.

### The Barber-Dwinnell Lighting Plant

Is a simple, trouble-proof, thoroughly practical and easily installed electric light system. Nothing complicated, or hard to understand. Operated perfectly by anyone. Practically no expense after installation. Attach gun orator to any gas engine while it is pumping or doing other work, and charge storage batteries to last several days. Will run all electrical devices—lights always ready for instant service. Hundreds of plants in operation, in central-west—all giving absolutely dependable service year after year. Money-back guarantee—write today for descriptive booklet containing full information—free.

BARBER-DWINNELL ELECTRIC & MFG. CO. 602-8 East Fifteenth St., Kansas City, Mo.



### The Big Store

Opens a promising fall season with new stocks of all that is best and most attractive in fall merchandise—suited to the needs of all. The advantages of shopping here, by mail or in person, have never been better—never even so good as now. Qualities, varieties and prices are more attractive, fashions are entirely different from those of former seasons; the plain, practical, every-day needs of every member of the family may be amply supplied at the least cost.

IF YOU WRITE, our Mail Order Department will use the most conscientious care in filling your orders, saving money for you whenever opportunities offer.

IF YOU COME, we will refund your railroad fare according to the amount of your purchase.

THE MILLS DRY GOODS COMPANY, TOPEKA, KANS.

## SCHOOLS AND COLLEGES

K. W. stands B. for C.

### Kansas Wesleyan Business College

The Largest and Best College in the West  
A Successful School and Successful Methods. Character Building and Business Training. A Good Position for Every Graduate. Moderate Tuition—Clean City—Expert Faculty. Free Winter Chautauqua, Lectures, Stereopticon. Stenography, the Machine Way of Shorthand. Illustrated College Paper Free. L. L. TUCKER, President, Salina, Kansas.



### Needs Young Men and Women

For good positions. A good position for every graduate. We furnish employment for students to pay expenses while attending school. Write today for our new catalog. 119 E. EIGHTH ST., TOPEKA, KANSAS.

### \$40. Dollars Will Pay for a Full

Commercial or Shorthand-Typewriting Course (Life Scholarship) in this school. Positions secured. Board and room reasonable. No additional charge made for English branches. Write today for particulars and how to get a free ticket to our school. CENTRAL KANSAS BUSINESS COLLEGE, Lock Box 455. Abilene, Kansas.

### CHRISTIAN BROTHERS COLLEGE

St. Joseph, Mo.  
FOR YOUNG MEN AND BOYS.  
Thorough commercial and scientific courses and preparatory course for younger boys. Boarders and day students. Graduates can secure good positions. Next term begins Sept. 8. For catalog address BRO. E. LEWIS, President.

# HOME CIRCLE



A tablespoonful of corn starch mixed with the flour in making sponge cake will prevent heavy streaks or fallen corners or centers. Try the use of the corn starch and see how light and feathery your sponge cake will be.

One of KANSAS FARMER's folks who grows ferns and palms with seemingly little trouble, once a month places around the root of each plant a tablespoonful of castor oil. This treatment gives growth and fresh color.

parsnip ranks high. For usefulness it stands above the carrot and salsify, and gives the beet a close run for first place.

You have all had trouble with the scorching of cakes and pastry. This may be overcome by placing a cup of hot water in the oven. In baking gems or muffins, one of the molds may be filled with water instead of batter. The results of this plan will prove highly pleasing.

Among the edible roots for food the In almost every well regulated household paraffin is now generally used. A

## FASHION DEPARTMENT—ALL PATTERNS TEN CENTS

This department is prepared especially in New York City for KANSAS FARMER. We can supply our readers with high grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Special offer: To anyone ordering a pattern we will send the latest issue of our Fashion Book, EVERY WOMAN HER OWN DRESSMAKER, for only 2 cents; send 12 cents for pattern and book. Price of book if ordered without pattern, 5 cents. Address all orders for patterns or books to KANSAS FARMER, Topeka, Kansas.



No. 6809—Ladies' Waist: Linen or crepe de chine can be used to make this waist, with the trimming of contrasting material. The waist closes at the front and is made with the sleeves extending to the neck edge. The sleeves can be made in either the long or short length. The pattern, No. 6809, is cut in sizes 34 to 44 inches bust measure. Medium size requires 2 yards of 44-inch material and 1/4 yard of 27-inch contrasting goods. No. 4830—Ladies' Kitchen Apron: This is the apron for a real cover-all. It is a one-piece model, cut out in a large round at the neck and also at the armholes and fastening with a single button at the shoulders in the back. A short underarm dart fits it to the figure and a patch pocket completes it. The pattern, No. 4830, is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 1/4 yards of 27-inch material. No. 6644—Ladies' Dressing Sack: In this pretty model we have the body and half the sleeve in one, a single seam running down the neck edge to the wrist along the outer arm. The neck is trimmed with a handsome collar and a cuff to correspond completes the sleeve. The pattern, No. 6644, is cut in sizes 34 to 44 inches bust measure. Medium size requires 3/4 yards of 36-inch material. No. 6436—Ladies' Skirt: This is one of the high waisted skirts which depend for their effect upon the long folds of the draped material. The skirt is in three pieces and closes at the left side of the front. The pattern, No. 6436, is cut in sizes 22 to 30 inches waist measure. Medium size requires 2 1/2 yards of 36-inch material. No. 6638—Ladies' Skirt: Serge or linen can be used to make this skirt. The skirt closes at the left side of the front and can be made with either the high or regulation waistline. The pattern, No. 6638, is cut in sizes 22 to 32 inches waist measure. Medium size requires 2 1/2 yards of 44-inch material. No. 6460—Girls' Sack: This apron may be used as a dress or to protect the dress. It is plain and comes from the neck to the hem of the skirt. There is a small turn-over collar and full length bishop sleeves. Patch pockets are placed in front and the strings are fastened in at the underarm seam and form a bow in the back. The pattern, No. 6460, is cut in sizes 2 to 12 years. Medium size requires 2 1/2 yards of 36-inch material. No. 6657—Children's Dutch Rompers: One or two materials can be used to make this garment. The rompers are made with one-piece bloomers, which button to a waist. The waist is made to be slipped on over the head. The pattern, No. 6657, is cut in sizes 2, 4 and 6 years. Age 4 years requires 1 yard of 36-inch light goods and 1 1/4 yards of 36-inch dark goods.

convenient method of melting and pouring is desirable and a good plan is to buy a cheap tin teapot in which to melt the paraffin. The supply should always be left in the teapot ready for use. The spout of the teapot is a matter of great convenience in pouring the paraffin where it is wanted.

Now is the time to begin thinking about and planning for the remembrances to be given at Christmas time. Make a list of relatives and friends whom you wish to remember and as you go about your daily tasks try to think of something which would be especially appropriate for each. Dainty or useful gifts made by one's friends are always acceptable and there is no more pleasant pastime than the fashioning of a gift which will be both pleasing and useful to the recipient. Many such gifts can be made between now and Christmas and by so doing the real spirit of the season can be enjoyed rather than making of it a time of confusion and worry as is so often the case.

Meal times should be contented, comfortable, cheerful times, for the sake of the health and happiness of the family. Do not select these occasions for general fault findings and scoldings just because everyone is handy and cannot get away easily. If seasons of reproof and correction must come, let it be later, and between individuals.—Successful Farming.

When the appetite is not good upon rising or stomach a bit sour with a tendency to gas, there are some minute creatures in the stomach which need to be "swept out" with greens. Next to the copious use of water, spinach ranks first for this purpose. Probably the best way to cook it is to boil it thoroughly, drain, hash it and dress with butter. We do not eat as much butter as we should, though we exceed the proper amount of cooked grease. New Englanders eat boiled spinach with a drawn-butter sauce. Germans usually eat eggs with greens and whether poached, boiled or fried, they are especially good as a spinach accompaniment.

Plants grown in the house require a period of rest. Under natural growing conditions a plant will rest—it lies dormant for a period, which to the plant corresponds with sleep for the human. "When a plant ceases to bloom," says Eben E. Rexford, in his book—"Floriculture," published by Orange Judd company, Chicago, "and shows inclination to stop growing by ripening its leaves, encourage it to rest by withholding water in a great degree and by giving it a less amount of light and heat than it has been having and be sure that it gets nothing of a stimulating nature. Light, warmth and water are all excitants of plant growth, and by withholding them we make it easy for the plant to stand still. If you have a cellar that is quite dark and the temperature in it is not very much above freezing in the coldest weather, it is just the place to put such plants as show a desire to rest.

A nice lot of potted and blooming plants will give much satisfaction and pleasure to the household during the fall and winter. The common idea that plants in pots will grow well in any kind of soil is one of the mistakes made by many people. Each plant should have a soil specially prepared for it and the character of soil to which each plant is adapted will best be learned by observation. The best general purpose soil, however, is that composed of one part of soil from the garden, assuming, of course, that this is fertile, has been well worked and is in good physical condition. To this should be added one part of soil taken from just below the sod of grass. This will be full of fine grass roots. And one part of thoroughly rotted manure and sand, half and half. Leaf mold may be used in the place of that soil obtained from below the sod of grass, if it is more easily obtainable. Under no conditions should fresh manure be used in preparing soil for potted plants.

**To Get Rid of Red Ants.**

In reply to many inquiries we have printed several formulas the past season. This is another which had the desired effect for the subscriber who gave it a trial. Buy five cents' worth of tartar emetic. Take about a quarter of a teaspoonful of the powder, mix with a little sugar, and make very moist with water. Set it around in little shallow dishes where the ants seem to be the thickest. It may take a couple of hours or a day before they will leave. They do not die, but can't seem to stay where the

tartar emetic is. It is a poison, so keep it out of reach of children. The ants may come back again in time. If they do, give them another dose. Persist in it. It is well worth trying.

**Kafir Muffins.**

Two tablespoonfuls granulated sugar; two tablespoonfuls melted butter; two eggs; one cup sweet milk, salt, pepper, two teaspoonfuls baking powder in a cup of kafir flour and one cup of wheat flour. Bake in muffin pan.

**Lemon Sherbet.**

Three pints of milk; three cups of sugar; juice of four lemons; one tablespoonful of lemon extract. Mix the lemon juice, extract and sugar and pour into milk, without stirring, after the milk has been chilled in the freezer. It is necessary to turn the freezer only a few minutes and the result will be a delicious, refreshing and inexpensive dessert.

**Rule That Worked Both Ways.**

When he had carefully examined the shoes the physician had brought in for repairs the German cobbler handed them back, saying: "Dem shoes ain't worth mending, Doctor."  
"Very well, Hans," said the Doctor; "then of course I won't have anything done to them."  
"Vell, but I sharge you feefty cents already yet."  
"Why, what for?"  
"Vy, when I came to see you de udder day you sharged me t'ree dollars for telling me dot dere ain't noddings der matter mit me."—Selected.

**Stoves & Ranges**  
**Buy Your Stove at Wholesale**  
Direct from the Factory  
You save \$5.00 to \$40.00—get a month's free trial—pay cash or small payments. This book is the stove and range quality standard of America. Why buy at retail, from a small assortment, when you can buy at wholesale, direct from factory—with 500 styles and sizes to choose from? Quality, price, prompt shipment, year's guarantee and liberal terms gave us our 275,000 customers. Write for book and prices. Ask for Catalog No. 100  
**Kalamazoo Stove Company, Mfgs. Kalamazoo, Michigan**

**MANHATTAN Business College**  
**HAS HELPED MANY**  
and can help you through the Commercial, Shorthand, Civil Service, Penmanship, Typewriting, English, Banking, and Court Reporting Courses. For information or catalog address  
**L. W. NUTTER, Box D, Manhattan, Kansas.**

**COMMERCIAL Spalding's COLLEGE**  
10th & Oak Sts., KANSAS CITY, MO.  
4th Year. \$100.00 College Building has 15 Rooms, including Auditorium and Free Gymnasium. SHORTHAND, TYPEWRITING, BOOK-KEEPING, TELEGRAPHY AND ENGLISH. DAY & NIGHT SCHOOLS. Write to-day for FREE Catalogue "C"

**Telegraphers Make \$55 to \$165 Per Mo**  
You can learn quickly and cheaply and earn board while learning. Graduate into a paying job. Write for catalog.  
**SANTA FE TELEGRAPH SCHOOL,**  
Desk F, Topeka, Kansas.

**WASHBURN COLLEGE, TOPEKA**  
College, Law, Music and Art Departments. Large campus, eleven buildings, complete libraries, college home for young women. Special advantages for law students. Catalogue on request.

**LAWRENCE Business College**  
Lawrence, Kansas.  
Largest and best business college in the west. Positions secured or free tuition. Big Catalog "B" Free.

**OTTAWA Business College**  
OTTAWA, KANS. CATALOG FREE

CUT FLOWERS AND DESIGNS SENT quickly for weddings, parties and funerals. Satisfaction guaranteed. The Rosery, Topeka, Kan.

**Free—the New "NATIONAL"**

**Money-Saving Style Book For Fall and Winter**



The New "NATIONAL" Fall Style Book is just off the press. It is filled with the very latest fashion ideas. Never has the "NATIONAL" offered you such a complete Style Book. Every deserving style is shown, every fashion we thought might please you is pictured for your choice. And every page is a page of bargains. If you like to dress well, and if you want to save money on your clothes, you will want to see it. Your copy is ready. Send for it today and see the thousands of bargains like these:

**"NATIONAL" Money-Saving Bargains**

Waists.....	\$.49 to \$7.98	Silk and Serge Dresses for Misses and Small Women.....	\$2.98 to 14.98
Skirts.....	1.98 to 7.98	Coats for Misses and Small Women.....	4.98 to 15.98
Ladies' Silk and Serge Dresses.....	2.98 to 27.50	Suits for Misses and Small Women.....	7.98 to 15.98
Ladies' Ready-Made Suits.....	7.98 to 15.98	Boys' and Young Men's Clothing.....	2.49 to 12.98
Ladies' Tailored Hat.....	.49 to 6.98	Junior Misses' Dresses.....	1.98 to 3.98
Ladies' Coats.....	4.98 to 25.00	Junior Misses' Coats.....	1.98 to 3.98
Furs.....	1.98 to 18.98	Junior Misses' Suits.....	5.98 to 10.98
Ladies' Shirts.....	.85 to 2.98	Children's Dresses.....	.50 to 6.98
Petticoats.....	.29 to 4.98	Children's Coats.....	2.98 to 6.98
House Dresses and Kimonos.....	.89 to 4.98	Children's, Misses' and Infants' Shoes.....	.29 to 2.98
Gloves.....	.17 to 2.75	Infants' Dresses and Coats.....	.29 to 6.75
Corsets.....	.49 to 5.00		
Woolen Underwear.....	.15 to 3.98		
Sweaters.....	.49 to 4.98		

Also a full line of Underwear, Hosiery, Scarfs, Veils, Gloves, Sweaters, Leather Goods, Jewelry and a complete line of Boys', Misses' and Children's Wearing Apparel. Don't forget to mail the coupon.



**National Cloak & Suit Company**

257 West 24th Street  
New York City

Mail Coupon Today

No Agents and No Branch Stores

**The "NATIONAL" Policy**  
We prepay postage and expressage on all our goods to all parts of the world. Every "NATIONAL" garment is sold under the "NATIONAL" Guarantee, which says that you may return any garment not satisfactory to you and we will refund your money and pay postage or express charges both ways.

**Fill in the Coupon and Mail It Today Sure**  
**Free Money-Saving Coupon**  
National Cloak & Suit Co. 257  
257 West 24th St., New York City  
Please send me, free, my copy of the Money-Saving "NATIONAL" Fall Style Book.  
Name.....  
Street.....  
Town..... State.....



The Spreader with the Beater on the Axle

**H**ERE'S the low down spreader with the big drive wheels. The beater and all driving parts are on the rear axle. That means no clutches to give trouble, no chains to break or to get out of line; it means less than half the parts heretofore used on the simplest spreader.

Only hip high to the top. Easy to load. You see where to place each forkful. The result is an even load that spreads uniformly.

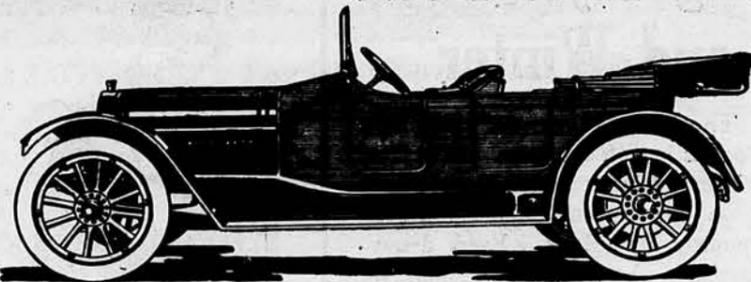
Light draft because the beater runs on roller bearings and the center of the load is comparatively near the team. Staunch, strong and easy to operate.

See the John Deere, the spreader with the beater on the axle. Sold by John Deere dealers everywhere. Send for beautiful booklet, also for

### "Farm Manures and Fertilizers"—Free

A book by Dr. W. E. Taylor, soil expert. It tells the value of manure, how it should be stored, and how applied to the land to get the most out of it. You can get both books free when you write about John Deere Spreaders by asking for package No. Y13

**JOHN DEERE, MOLINE, ILLINOIS**



### \$1075 Fully Equipped F. O. B. Toledo GETTING THE MOST OUT OF LIFE—

Time used to be when the farmer disliked the automobile and did his best to discourage its use.

Today more automobiles are bought by farmers than by any other single class.

It was found that the automobile encourages farming, because it brings the city and the country closer together. It keeps the boys on the farm.

The automobile allows the use of the horses for other work. When the horses are exhausted, the automobile is ready for further duty. Perhaps in a pleasure way.

Trips to the town stores, which formerly occupied a day, become a matter of a few hours.

More than any other agency the automobile helps the farmer and his family to get the most out of life, to do the most work in a given time. And, therefore, it is worth more to them than it costs.

This car is the most sensational value offered by the automobile industry.

The price includes full equipment. Electric equipment throughout. Demountable rims.

Write for catalog or call at our show room and let us tell you about the various models and give you a demonstration. It costs you nothing.

## OVERLAND COMPANY

F. W. MILLS, Manager

819-21-23 Quincy Street, TOPEKA, KANSAS.

J. S. WARNER, District Agent.

## BRAKE AND CLUTCH

Items of Every Day Interest About the Automobile and For the Motorist

"The greatest asset on a touring trip is common sense. The next greatest asset is efficient equipment," writes F. H. Trego, who has made the journey from coast to coast by motor car many times and therefore knows whereof he speaks.

Having finished their harvest and gotten their wheat safely in the bins, seven Reno County farmers with their families last week made an overland drive to Colorado in touring cars. There were five automobile loads in the party. They drove to the mountains by the new Santa Fe Trail. They carried camping equipment and with this expect to spend at least a month in the Pike's Peak region of Colorado. All are well-to-do farmers who have harvested big wheat crops and are entitled to a rest taken in a way that a millionaire might envy.

To get out of a mud-hole, this plan is suggested by Mr. Trego, a coast-to-coast tourist: "If the rear wheels are stuck and will not take hold, dig a hole in front of each forward wheel into which the wheels can immediately roll. In front of the rear wheels place brush, hay, straw, weeds or other similar things. When the car moves, block the rear wheels quickly and repeat the holes in front. Drive the rear wheels as slowly as possible to avoid unnecessary turning." Every tourist should carry a spade. It is an essential part of the equipment on any motor trip of considerable length.

If you would get the best wear out of cases and so reduce the cost per mile for tires to the minimum, observe these points: Do not drive with under-inflated tires. Inflate the case to the pounds marked on the case and maintain that inflation. Do not delay tire repairs. Make the repairs when needed. Do not stop or start suddenly. Be moderate and careful in the use of brakes. Do not run in ruts or scrape against the curb. Do not fail to use talc in the casings. Avoid driving over sharp obstructions. Do not carry spare tubes unprotected. Don't fail to keep spare casings in a cover.

A large percentage of road accidents could be avoided if proper driving precautions were taken. An important cause of accidents is when an automobile driver in a rear car tries to make the man in front "eat his dust." On one side of the forward car or directly in front may be another machine, buggy or pedestrian, which to the driver of the rear car is not within his sight. Invariably when passing machines in this manner from the rear the driver opens his cut-out and by increasing speed passes the machine in front at so rapid a pace that he does not see the other occupant of the road and the result is an accident.

Few people recognize the enormous strength of the ordinary pneumatic tire. Recent tests have proven that a good quality of casing will stand up under strains which would prove fatal to iron and steel. Many tests have been made for the Society of Automobile Engineers, involving practically every type of rim, clincher and straight-side tire. The test consisted in taking stock tires and putting them on rims and forcing the air into the tires until something gave way. The rims, of course, were not mounted and reinforced by wheels. In these tests not a single tire gave way. Some tires were inflated to 400 pounds per square inch before the rim collapsed. In one instance the same tire was used fourteen times, breaking one rim after another.

Sales conditions in the automobile field have been widely affected by recent reductions in price of gasoline, oil, tires, and other supplies. Gasoline is now selling at slightly less than 11 cents in Topeka as compared with 20 cents a year ago. Lubricating oil is costing 25 per cent less than a year ago, and these two reductions alone go far in cheapening the cost of motoring. Tires had reached the low point in the history of the trade prior to the European war, but since which time advances have been made. How long this advance will hold depends upon European conditions, for it is from Europe that the rubber supply is received, but it must be remembered that automobile cases were never so well

built as now and the 5,000-mile guarantee is common to manufacturers, so that while the cost of a casing of a given size has increased, the mile service it will render is done at a less cost per mile than heretofore.

Whether touring or not, always see that the automobile is well supplied with oil. It is a good plan to at all times carry a gallon of lubricating oil in a can of suitable dimensions under the rear seat. This oil should be used only in emergencies and when it is impossible to procure the brand of oil the motorist has been using. The editor does not believe in the mixing of oil of several brands in the crank case. In a drive from Topeka to Denver, which we made, two one-gallon cans of oil supplied the amount necessary for the trip and some besides. The kind of oil we used was not obtainable along the route. We believe in buying oil in and from the original trade-marked package. We have seen a half dozen brands of oil sold from the same barrel.

If you should be driving to Colorado you will find the pleasure increased to go one route and return by another. There are two great highways across the state and each is in fairly good condition. Every mile of either is not a boulevard, but there are many stretches of perfect road on each. Other stretches are no worse than you drive over every week. The Santa Fe Trail is one route, and the Golden Belt the other. Each is well marked. The driver with gumption cannot lose the road. Nevertheless, a log book is a good thing to have along. There is a good deal of satisfaction in having it, although after the first day's travel you probably will slip it under the cushion and not think of it again. The log of the Golden Belt can be had for 25 cents from C. M. Harger, the president of the association maintaining that route, and whose address is Abilene, Kansas. We do not know the headquarters of the Santa Fe Trail, but Clarence Jordan, secretary of the Kansas Automobile Association, Topeka, Kansas, can tell you, and he may be able to supply the log.

Today's demand is centered on the car of moderate cost and of proven capability. The average motorist has as a result of his experience placed the stamp of approval upon the car of moderate horse power, moderate weight, moderate wheel base, yet which runs sturdy and smooth and which is economical in operation. The field of automobile manufacture is narrowing down to a few reliable companies, manufacturing such cars as have met this demand. The manufacture of motor cars is now on a thoroughly substantial basis and cars are built carefully and with a view to giving the longest possible service. In the formative period of the industry it was not difficult to deceive the public and the market was flooded with cars of little or no worth. Today cars are built not for the use of a year or two and then to be replaced by a new car, but are now designed to serve the purchaser and his family for a considerable period of years. It is not unusual now for a man to say, "I bought this car because I thought it would last as long as I wanted a car." Manufacturers have met this demand of the public.

The above heading, "Brake and Clutch," has been borrowed by KANSAS FARMER from the Reflector, a weekly newspaper published at Abilene in Dickinson County and in which county the automobile is so important in every-day life that a column or more of interesting auto items is printed under that heading each week. In Dickinson County several hundred automobiles are owned and these largely by farmers. It occurs to us that the owners of that county are getting more pleasure and satisfaction therefrom than are the motor owners of other counties. The Reflector is frequently called upon to record a neighborhood run in which the auto owners and their families of one neighborhood on one day make a visit to towns and farm communities in other sections of the county. These calls are returned by runs from other towns and communities and the occasions are of interest as well as of educational value. We do not know of any one thing which will afford the farmer and his family as much pleas-

## BE AN AUTO EXPERT

We teach you how to run and repair automobiles in six weeks and fit you for a good paying job or we don't charge one cent. Practical instruction, plenty of road work, etc. Only school teaching pattern making, moulding, casting, etc.

Free illustrated catalog shows how you can hold a job paying \$20 a week up. Write TODAY.

LINCOLN AUTO SCHOOL,  
2345 O' St., Lincoln, Nebr.

# Wanted!

**Ambitious Men Everywhere To Accept  
Hundreds of Big-Money Opportunities in the  
AUTO BUSINESS!!**

Big demand for trained men everywhere to open up Sales Agencies, Garages, Repair Shops—to accept positions as Salesmen, Demonstrators, Drivers, Factory Testers, Starter Experts, Repair Men and Garage Managers. Earn \$16 to \$30 month or more. Learn here in 8 weeks—the greatest Auto Training School in the world—6000 students.

## \$50 Scholarship FREE!

In order to partially meet demand for auto experts we are making most unusual offer. Our Complete Course in "Automobile Science" covers every department of the work—and our tuition rates are exceptionally reasonable. To all who enroll now we give Special \$50 Course in Electric Starting, Lighting and Traction Engineering FREE. Send your name at once for big 64-page book telling all about our school and get \$50 Free Scholarship Certificate.

**Auto Training School, Kansas City, Mo.**  
1184 Locust St.,

**FARM Telephone**  
**LINE**  
**Instruction Free**  
**Book**

Fully explains most successful plan for organizing and building neighborhood telephone lines at low cost. How to start co-operative companies, by-laws, rules and helpful advice by experts. Every telephone man needs this useful information book at a special "Auto-Tel" price. If you have no time, let us help you select one. Send for Catalogue and price.

**Swedish-American Telephone Mfg. Co.**  
Dept. 20 Chicago, Ill.

**YOU can EARN on AUTO**  
**HERE'S YOUR CHANCE TO GET**  
**A NEW FORD TOURING CAR**  
**FOR A FEW WEEKS' WORK.**

By my new, easy plan, anyone over 16 years old can get a brand-new Ford Touring Car for a little easy, respectable work among neighbors. Free Book tells all about it. Postal freight. Send. AUTO TOUR, 646-16th St., OMAHA, NEB.

## AUTO SALVAGE CO.

1418 Main Street, Kansas City, Mo.  
Engines, gears, axles—transmissions, 50% to 65% less than list prices. Money refunded if goods not satisfactory. Second hand cars at salvage prices. Supplies, oils and greases. Correspondence solicited. We buy wrecked, burned or damaged cars.

**MEN WANTED**

We positively teach you at home by mail to earn \$25 to \$50 weekly as Chauffeur or Repairman. Students trained to positions. Best system, lowest price. MODELS FURNISHED. Write for Free Book. Practical Auto School, 68a Beaver Street, New York

life as a good touring car. The farmer has few things with which to play. The automobile is a good plaything; where one is owned it supplies the sport necessary to remove the monotony of farm life.

Touring by motor is on the rapid increase and it is altogether probable that it will increase from year to year. There is no better way for the car owner to spend a few weeks off than by motor-ing through territory he has not seen. Such a trip combines pleasure and education and sometimes business. The greater proportion of Kansas travel this year is to Colorado. The farm motor owner has just entered upon this year's touring period. He cannot get away very well until the harvesting of feed crops is done and in advance of wheat seeding. If he drives to Colorado or to some other distant point there are a few things he should observe, as follows: Don't wait until the gasoline is nearly gone before filling up—keep the tank full. Carry a two or three-gallon water bag which the automobile supply men are selling—you might spring a radiator leak, burst a water hose or lose water from boiling, when the water carried will come in handy. Don't forget the yellow goggles. Hours and hours of travel over roads of light-colored soil will tire the eyes without them. Don't ford water without first wading through it. Don't drive over twenty-five miles and hour, because unexpected small dry washouts will break springs. Don't drink alkali water. Don't wear new shoes and don't carry good clothes.

**Under-Inflation Damaging to Tires**  
"To judge the air pressure in a tire by its look or feel is at best a very poor makeshift," says a Goodyear tire booklet. "For a motorist to be without a pressure gauge is very much like the carpenter trying to work without a rule."

The Goodyear Company, Akron, Ohio, has been issuing of late a number of hints on the care and preservation of tires, so that the utmost mileage can be obtained. The supposition that the heating of the air in a tire by the sun or pavement in hot weather brings about a dangerous pressure has been exploded by a practical test, and it has been

shown that for a motorist to lower his air pressure because the sun is hot actually injures the tire far more than any possible increase of pressure could. The reason for this is that the heat caused by the flexing of an under-inflated tire destroys the tire much more rapidly than the average motorist realizes.

## KANSAS HOSTESS FOR WORLD.

(Continued from Page Five.)

J. Kerr of the Oregon Agricultural College.

Wednesday night will be Foreign night, and, despite war, will not be so limited as might be imagined. The Argentine minister at Washington, Romulo S. Noan; the head of a great Mexican agricultural college, N. P. Escobar; Harold Hamil Smith of London, editor of "Tropical Life"; A. Aaronsohn, who is doing a notable work in Palestine; E. Pasmazoglou, Grecian consul at St. Louis; William P. Anderson, Russian agricultural commissioner to the United States; Niel Nielsen, Australian trade commissioner to the United States; Dr. J. L. Young, Chinese agricultural envoy; and Dr. Jose Aragon y Montijo of Spain will be present.

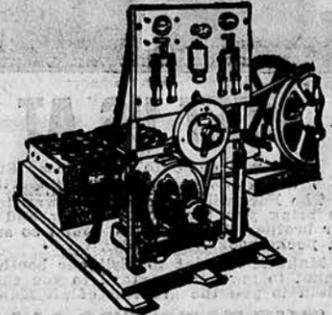
Tuesday morning E. H. Webster, former dean of the Kansas Agricultural College and director of experiment stations, will preside at a fine Dairying and Silos session. T. A. Borman, editor of KANSAS FARMER, O. E. Reed of the Kansas Agricultural College, and a number of Canadian and other representatives of this great industry will be the speakers.

Thursday afternoon there will be more of Marketing and Credits, and a general program, some of the speakers being Joseph Hirsch of Corpus Christi, Texas, representing the American Bankers' Association; Bank Commissioner Charles M. Sawyer of Kansas, and Representative Frank W. Mondell of Wyoming, former president of the Congress.

Thursday evening there will be a dinner to noted visitors, given by the Kansas Board of Control, and after that a big night at the Exposition.

Thus will end the Congress, while the Exposition will continue up to and including Saturday night, October 17, when the greatest agricultural event of the year anywhere in the world, and decidedly the biggest thing for Kansas in its history, will have closed.

## Electric Lights for Everybody



More light, better light, comfort, safety from fire. Electric light whenever and wherever you want it. Run your engine a few hours occasionally and you have a 24-hour electric service. First cost is low, cost of operation only a few cents a day. We have manufactured electric plants for 25 years, have thousands in use.

## The "Nyrap-Exide" ELECTRIC PLANT UNIT

which we are now offering, is the latest and best—easy to set up—easy to operate—safe and reliable. You want electric lights in your home. Write our office nearest you and get our new book. It explains everything. It's free.

**The Electric Storage Battery Co.**  
Philadelphia  
New York Chicago Boston St. Louis Cleveland  
Atlanta Denver Detroit Rochester San Francisco  
Toronto Portland, Ore. Seattle Los Angeles

## BLADE HARROW



**GREAT FOR WHEAT.**  
Levels the surface and packs the sub-surface.  
Does what the harrow and the sub-surface packer do—only one operation with the Blade Harrow is necessary.  
It's good for listed corn cultivation and just the thing the potato grower has been looking for.  
Ask for catalog and special offer.  
**BLADE HARROW CO., Lawrence, Ks.**

When writing advertisers, please mention KANSAS FARMER.

1859

1914

# WHY LIFE INSURANCE IS NECESSARY TO THE FARMER

## Because the Farmer Cannot Obtain Through Any Other Source What Life Insurance Provides.

Life Insurance in a sound company like The Equitable Life Assurance Society of the United States, 165 Broadway, New York, replaces a man's earning power immediately at his death. By no other means can he secure so large a return in the event of his death; and if kept in force the policy must be paid in full some time.

## Because It Is a Better Method for Saving Than a Savings Bank.

The Equitable Society has a Surplus of over \$84,000,000 and total assets of over \$528,000,000. A Savings Bank account will never return more than the amount of the deposits, plus a little interest. But an Equitable policy may return from 20 to 50 times the amount invested, in the event of your death. Moreover, an Endowment Policy will return the full amount of the insurance to you if living at the end of a certain period of years, in addition to furnishing life insurance. No Savings Bank will do this.

## Because the Payments Encourage Systematic and Continuous Saving.

Many farmers who could never save money before have learned how

to do so by means of an Equitable Endowment Policy. Such a policy not only provides life insurance for \$1,000, or \$5,000, or \$10,000, or more, as may be desired, but affords an easy channel for saving regularly small sums of money which might otherwise be wasted. And after 10, 15 or 20 years the amount of the policy is paid to the person insured, if he is then living. If he should die before, the amount is paid to his family.

## Because Life Insurance Will Clear a Mortgage or Any Other Debt.

Farmers all over the country are insuring their lives in the Equitable so that their farms will be free and clear at their death. The proceeds of a life insurance policy in the Equitable can be made to pay off a mortgage or any other debt. Thus no sacrifice sale of real estate or other property is necessary.

## Because Money Can Be Raised on an Equitable Policy.

Life Insurance appeals still further to the farmers for the reason that an Equitable Policy contains a table of annually increasing Cash Values, beginning with the third year, and the Company will advance money on the sole security of this policy. Ready money is sometimes worth double its ordinary value when crops fail and times are bad. A life insurance policy has saved many hundreds of business men from ruin because of the ready money to be obtained thereon.

From September, 1912, to August, 1914, the Equitable Society has loaned on Kansas farms more than \$1,718,000 which is considerably more than the total assets of all of the Kansas Life Insurance Companies combined. Fill out and mail the attached coupon today.

## THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE U. S.

165 Broadway, New York.

**CHARLES A. MOORE, GENERAL AGENT**

Third Floor, New England Bldg., TOPEKA, KANSAS.

CHARLES A. MOORE, General Agent,  
Topeka, Kansas.

Please send me full particulars regarding a Life Insurance Policy

for \$.....at age.....

Name.....

Full Address.....



## MEET US AT THE STATE FAIR

When you come to the Kansas State Fair at Hutchinson this year, September 12-19, don't overlook the most important displays of the many you will see there. The Fair will show you the way to better, surer, safer, cheaper farming. Let it also bring you the money-saving and farm-protecting message that over 45,000 of your brother Kansans have found so satisfactory to learn, accept and apply to their own pocketbooks.

Make it a point to visit our booth in the Liberal Arts building, where we will be glad to meet you, extend to you the glad hand of fraternity and fellowship, and explain to you the greatest of all Kansas institutions—

### THE FARMERS ALLIANCE INSURANCE CO.

Come to our booth. You will be welcome there at all times. Slip into one of our big comfortable chairs in a cool corner and while resting your weary feet, let us show you what Farmers' Alliance Insurance really is, and what its MUTUAL methods will do for you.

Come and let us show you how this grand big Mutual Farm Insurance Company of Kansas was organized, developed and managed right here on Kansas soil by Kansas farmers.

Come and let us show you how we can furnish you with farm insurance—protection against loss by tornado, fire and lightning, at rates 20 to 40 per cent lower than those charged by the old-line stock companies—rates that will save you from \$5 to \$15 on the cost of every thousand dollars' worth of insurance you carry.

Come and let us show you how we pay back our policy-holders every cent over and above legitimate expenses, thereby furnishing you with farm insurance at actual cost.

Come and let us show you the benefits that accrue to you by keeping Kansas money in Kansas if you will put your insurance in this great Farm Mutual. Let us hear from you anyway, whether you come to the Fair or not. Don't delay this matter. Write us today, NOW. Give us your name and address and we can send you full particulars about our plan of insurance.

### FARMERS ALLIANCE INSURANCE CO.

ROOM 2, F. A. I. BUILDING, McPHERSON, KANSAS.



## Feed Them Pratts

Here is real egg-making joy for laying hens. Makes them relish their morning's feed and sends them happy to their nests. No sick, doxy birds standing around, but the entire flock full of life, laying regularly, and showing money-making form. Feed them

### Pratts Poultry Regulator

Gets the laying hens into the egg-a-day class, and starts up the lazy ones. Makes no difference about breeds—the better the birds the more Pratts will do for them. Develops pullets into early layers. Brings birds quickly and safely through the moult and puts them back again on the egg-laying job.

Go to your dealer and tell him you want Pratts Poultry Regulator. Comes in 25c packages up to big, generous 25-lb. pails at \$2.50. Pratts does all we say and more—must do it or we give you your money back and no questions asked.

That has been our guaranty for 42 years. A Regulator with such a record is worth asking for and insisting that you get it and none other.

**PRATT FOOD COMPANY**  
PHILADELPHIA CHICAGO TORONTO

## CENTRAL-TOPEKA PAPER CO.

JOBBER OF  
EVERYTHING IN

# PAPER

TOPEKA :: :: KANSAS

MENTION KANSAS FARMER WHEN YOU WRITE.

### Silos and Milk Cows

There is one newspaper in Kansas pursuing an idea this editor has long held in the matter of interesting country readers. This idea hinges around the belief that the country daily or the country weekly needs the country reader on its subscription list, and if he is to read and pay for such paper, then the publication should contain items of interest to the country public. This idea is worked out admirably by the Hutchinson Daily News, which each day contains from one-half column to a column of interviews with farmers and of which the following is a sample:

"Court Brown, an old Seward County cattleman, is urging that the farmers of that section grow less wheat and pay more attention to dairying.

"There is no reason," he argued, "why the farmer cannot raise some feed each year and have that to feed his cows and have the cream and milk to sell. I do not believe that one should never try to raise wheat, but I do believe the farmer out here should not depend on that crop alone. It is too uncertain; that is, it is not to be depended upon year after year. A small bunch of milk cows will make a living for a man and family and the feed can be raised here, because last year out here proved that."

"We must build silos," said George Blake, of Kingman County. "If every farmer had about two silos, and kept one in reserve all the time, we would hear little about forced shipments of stock on account of scarcity of feed."

"Dave Marsh, of Harper County, built last year a silo of 110 tons. It proved the best investment I ever made," he said. "I will build another of the same size this year, as two silos work well. One can be kept full all the time. I filled my silo twice last year, the second time with corn fodder and dry kafir."

#### Does the Mrs. Have Good Washer?

We doubt if one of each half dozen families in Kansas uses a washing machine. No one has compiled figures on this point, but in our travels we observe woman after woman washing by hand. This is not because the family cannot afford a washer, but because of the deep-seated feeling that washers will not accomplish satisfactory work. We do not believe there is a more tiresome and all-around disagreeable job which comes week after week, year in and year out, than that of doing the average farm washing. If this operation could be so simplified as to make it easier, more joy than the farm woman could believe, would come into her life.

On a drive to Leavenworth not long since, we observed a half dozen washings under way and in no case was a machine in use. These good women were within the shadow of the buildings of the Victor Manufacturing Company of Leavenworth, which makes the "Wonder" washer and wringer. These women, washing the old-fashioned way, should have known of the merits of this washer. A few minutes spent at the factory would have demonstrated to them its efficiency. I visited the factory—it is one of the show places of Leavenworth. A factory employe put through one washerful of dirty underwear to show me what it would do. I was astonished. He used only hot water and common soap—no washing compound or lye. But the machine was easily operated—we know because the man induced us to work the lever a few minutes, and in fact we did the washing without knowing it.

Here is what one "Wonder" user wrote the company: "I get up at six o'clock on Monday, have breakfast by seven, heating the water at the same time—at eight my other work is out of the way and I commence washing with my 'Wonder' washer and wringer. Five in the family, clothes reasonably soiled, yet at nine o'clock the last piece is on the line. I have never seen such clean clothes or clothes so easily washed. No boiling—no rubbing on the board—no noise—no cogs—I wouldn't have any other."

Should some man read this in whose home there is not a washer, we request that he loosen up and investigate the claim. If some of our good women folks need a washer and can't make the old gent turn loose of a few dollars, we suggest that they hold up the chicken and egg money a few weeks—"where there's a will, there's a way." The more joy that can come into the life of the farm wife, the better will be the farm home and its life and the happier all will be.

Please note change in the ad of W. W. Otey & Son of Winfield, Kan. They offer a number of herd boar prospects sired by Good Enough Again King and Crimson Wonder 4th. Please read ad and write them about their herd. Kindly mention Kansas Farmer.

# JOHN DEERE



Wheel  
Plows  
With Quick  
Detachable  
Shares

### Unscrew One Nut—That's All

THE latest improvement on John Deere Sulky and Gang Plows is John Deere Quick Detachable Shares. Unscrew one nut and the share comes off—slip share on; tighten the one nut and you are ready for work. Shares on or off quick, that's the idea. Here's what it means to you:

1. No trouble to change shares.
2. Eighty percent of time saved.
3. No danger of damaging share.
4. Share is drawn up closer.
5. Share is stronger—not weakened by bolt holes.
6. Resharpened or sprung shares can be drawn into place—no drift punch necessary.
7. No unequal strain on share.
8. No injury to hands in taking share off.

We have beautifully illustrated booklets on the following plows with John Deere Quick Detachable Shares:

- New Deere Sulky and Gang. (High Lift Frame Plows).
- John Deere Stag Sulky and Gang. (Low Lift Frameless Plows).
- John Deere Two Way Sulky. (Side Hill or Irrigated Land).
- John Deere Engine Gang. (For Traction Engines).

Mention the booklet that you want and ask for our big free book—

### "Better Farm Implements and How to Use Them."

Describes the John Deere full line of farm implements. It should be on every farm. Tells how to adjust important tools.

Ask for package P-13 Address your letter to

**JOHN DEERE**  
PUBLICITY DEPT. MOLINE, ILL.



## You Can't Beat Galloway Prices Anywhere

You can't get Galloway quality at anywhere near my price. I get one small manufacturing profit, the rest of your dollar buys what you need. The other way your dollar pays the profit of the manufacturer, the jobber and the dealer. You have tried the old way. Now try my way and see what you save.



**Five New Selling Plans**  
Cash, Credit, Note or Easy Payments. One of these will suit your needs. Any plan allows you 30 days for trial of Engine, Cream Separator or Manure Spreader. If not satisfied that they are as good as any you ever saw or heard of, the goods come back and you're nothing out.



## Kerosene Engine

The SANDOW Stationary Engine runs on kerosene or gasoline. Starts without cranking—throttle governed—hopper cooled—speed controlled while running—no cams—no valves—no gears—no sprockets—only three moving parts—portable—light weight—great power—15-day money-back trial. Sizes, \$ to 20 H. P. Send postal for free catalog. Detroit Motor Car Supply Co., 250 Canton Ave., Detroit, Mich.

## 5-ft. Boiler Steel Hog Troughs \$1.95

Write for free descriptive circular. "Made of Heavy Boiler Steel 1-8 in. Thick"  
FULTON SUPPLY CO. 1600 Fulton St., Chicago, Ill.

**Depth and Diameter of Silo**

T. T. D., Lyon County, asks how deep a silo should be in proportion to its diameter.

In general, the depth of the silo should not be less than twice nor more than three times the diameter. The greater the depth the better the silage will keep on account of the pressure from above. If less than 24 feet deep the quality of silage will not be the best. A very great height is to be avoided on account of the excessive amount of power required to elevate the silage.

There is a relation of size of herd to diameter of silo which every feeder should observe in determining upon the capacity and dimensions of silo to build. The following table will show the proper diameter of the silo for herds of different sizes to be fed 30 to 40 pounds per animal per day. The table is based on the weight of a cubic foot of silage as being 40 pounds, and also on the removal of at least two inches of silage from the entire surface per day.

It is safe to figure that a 900-pound cow will consume 30 pounds of silage daily and a 1,200-pound cow 40 pounds. Yearlings will eat about one-half as much as mature animals. Fattening cattle will consume 25 to 35 pounds for each thousand pounds of live weight and depending upon the feeding period. Sheep will eat about one-eighth as much as a cow.

Inside Diameter of Silo, Feet.	Quantity of Silage in 2 Inches, Pounds.	Number Animals that May Be Fed, Allowing	
		40 Pounds per Head	30 Pounds per Head
10	524	13	17
11	634	16	21
12	754	19	25
13	885	22	29
14	1,026	25	34
15	1,178	29	39
16	1,340	33	44
17	1,513	38	50
18	1,696	42	56
20	2,094	52	70

**SELECTION OF SERUM.**

**What Determines Good Quality.**

At this particular season of the year there is no subject which seems to be attracting more attention from farmers than the vaccination of hogs to prevent cholera. It has formerly been the custom to employ a local veterinarian to do the work and permit him to furnish whatever serum he pleased, but now the hog raisers themselves usually have a preference as to what serum shall be used. They like to know how and by whom it is made.

Among the newly improved serum plants of Kansas City, the Eagle Serum Company has attracted attention and favorable comment on account of its finely equipped laboratory and the scrupulous care used in the manufacture of its product. The company has been in business a little over three years and has just finished an addition to its plant which is a hospital laboratory in finish and equipment. It has also improved its yards and pens and now has a model plant, capable of making monthly, sufficient serum to vaccinate sixty thousand hogs.

The officers of this company are: Dr. R. B. Grimes, president; R. M. Eagle, secretary, and Dr. John T. Eagle, laboratory supervisor. Both Dr. Grimes and Dr. Eagle are thoroughly experienced and competent veterinarians, they have served the United States government in field work and packing house inspection. It can be said without fear of contradiction that Dr. Grimes is the peer of any man engaged in the general manufacture of serum when it comes to the technical and practical knowledge necessary to such work. Dr. Eagle is said to be one of the best men in America in the diagnosis of hog cholera and post-mortem examination. R. M. Eagle has charge of the financial and business end of the company. He is a self-made man, with over thirty years of experience in the packing business. He started as cash boy and left as vice-president of the company, and was manager for Lipton and Swift during that time. The success of the Eagle Serum Company and the high potency and quality of their serum is due entirely to the thorough practical experience and technical training of the officers of the company.—Adv.

Wisconsin claims to be the foremost state in dairy husbandry. She has more dairy cattle than any other state, and nearly 50,000 silos to aid in feeding them. She produces nearly one-half the cheese made in the United States and immense amounts of butter, cream, and condensed milk. She has more pure-bred Guernsey cattle than any other state, and stands next to New York in the testing associations, and there are over ninety organizations interested in the community breeding of dairy cattle.

# Does your Washing IN 3 MINUTES!

This claim might sound exaggerated to you just because no other washer in the world can equal it, but there's many a woman reading this today who owns a Wonder Washer and knows how true this claim is. As remarkable as this record is, it is absolutely the truth and we prove it to you free beyond all doubt.

We prove conclusively that with this remarkable washer you can wash thoroughly a washerful of the dirtiest clothes with wonderful ease in from two to three minutes—exactly the same washing that takes from 15 to 20 minutes of hard work with any other machine.

We prove that every thread of your clothes will be absolutely clean—far cleaner than any other machine can possibly wash them. Works like magic—simply wonderful.

## Greatest Time and Labor Saver Known

With the Wonder Washer you do not have to wash extra-soiled clothes longer than the others. By a remarkable Wonder Washer exclusive feature these extra-soiled clothes are cleaned as quickly as less soiled garments.

This astonishing Wonder Washer advantage does away with the extra hard work required with other machines when washing extra soiled articles. You never need a washboard if you use a Wonder Washer.

There positively never was anything like this remarkable machine. It is absolutely the most amazing invention—the one great help that women the world over have been hoping for—the one machine that positively takes all the drudgery out of washing.

It makes absolutely no difference what washing machine you have ever used, you never have tried a washer that can do the work so fast, so easy, so thoroughly as this astonishing invention.

*Saves Its Cost in a Few Weeks*



The Machine that Out-Sells All Others

# WONDER WASHER AND WRINGER

The Machine That Out-Sells All Others

Nothing Else Like It—None Equal

**Greatest Scientific Invention for Women**

### Easiest to Operate

It's really the simplest washing machine you've ever seen—no complicated parts to get out of order. Simply move the handle a few minutes and the clothes are spotless—pure—clean. The numerous ball-bearings make it run so easily and noiselessly that a mere child can do a big washerful as easily as you can do it. There's not a fraction of lost motion. This Wonder feature—not found in any other machine—helps cut down wash day labor. You have no idea what a boon it is to every housewife.

**Large Capacity**

## No Boiling—No Washing Powders!

There is no other washing machine in the world that saves you so much time in so many ways as the Wonder Washer. You don't have to waste time "breaking" the water. Common washing soap and the Wonder Washer quickly "breaks" the hardest water. You don't have to boil the clothes. The Wonder Washer saves you the money you now waste for lye and other washing compounds. It prolongs the life of your clothes—does away with the damage to clothes caused by all washing powder.

### 4 Operations at Once!

Just think of this! The four important operations in washing—rubbing, squeezing, suction and stirring—are all used at the same time in the Wonder Washer without a particle of damage. This wonderful washer combines all the latest and best principle of mechanical washing, but it is absolutely different in every respect from any other washing machine. You must not confuse it with any other—you must not judge it by any other. Because other machines require lots of hard work, time and fussing you must not think that the Wonder Washer is like them.

Our Factory has at last caught up with the tremendous inflow of orders after working night and day, and we can now offer the public more Wonder Washers while they last.

### SPECIAL WONDER OFFER

Right now we are demonstrating free to the public the amazing work done by the Wonder Washer. Our demonstrator may be giving a free public demonstration at the leading dealer's in your town right now. Go to this great demonstration and see how easy the Wonder Washer cleans the most soiled articles like lightning. See how it washes the most delicate articles without a particle of damage. You will quickly realize that you cannot do your washing with the greatest ease and in the quickest time without a Wonder Washer. **ALL OTHER METHODS ARE NOW DISCARDED**—high-priced machines are no longer considered best just because they cost more. Right now the remarkable price at all dealers everywhere is \$8.00. If you do not know at which dealer's in your town our demonstration is being given, WRITE US for his name and address. A card will do—but send it now—save money.

**VICTOR MANUFACTURING CO., Dept. B Leavenworth, Kan.**

## HOOPLESS WOOD SILOS ARE BEST

**Cost No More & Lasts Longer**



Hoopless Wood Silos are made of 2 x 4's cut circular and laid as timbers in an elevator are laid, making perfect circular silo. The outside is then finished with seven-eighths flooring nailed up and down making a perfect tie. The silo is braced with rods. It will not twist or blow down. Wood silos are acknowledged to be superior to cement or metal for the proper keeping of silage. The Hoopless Wood Silo is the best wooden silo and is made on the strongest and most scientific lines.

We have some open territory for good live agents. Write us for particulars regarding a silo or a silo agency.

**CURRY SILO CO.**

623 QUINCY ST., TOPEKA, KANSAS.

Do not give way to fretfulness. It takes the fragrance out of life and leaves only weeds where a cheerful disposition would cause flowers to bloom.

ESTABLISHED 1878.

# THE MERRIAM MORTGAGE CO.

TOPEKA, KANSAS.

## REAL ESTATE LOANS

**OFFICERS:**

E. B. Merriam, President; F. D. Merriam, Vice-President; C. B. Merriam, Treasurer; J. C. Harmon, Secretary.

**INCORPORATORS:**

E. B. Merriam, E. D. Osborn, A. Fassler, F. D. Merriam, C. W. Merriam, C. B. Merriam, J. S. Harmon.

### We Are the Financial Correspondent

## OF THE EQUITABLE LIFE ASSURANCE SOCIETY OF NEW YORK

This large, prominent and successful Life Insurance Company, with assets of more than Five Hundred Million Dollars, has just entered Kansas on broad and liberal lines for investments in farm mortgages, and will be a very important factor in the financial transactions of this state, and will become closely identified with its interests.

## ADVERTISEMENT.

A SEEDSMAN THAT HAS MADE GOOD.



Gene Hayes.

The farmers of Kansas who attend the big State Fair in Topeka should make it a point to visit the Hayes Seed House on Kansas Avenue between the Rock Island and Union Pacific depots. Hundreds of the fine fields of alfalfa, oats, potatoes, corn, feterita, millet and other farm products in Kansas this year came from Hayes. It is vitally important that the seed grain should be pure and fresh. That is what you get at the Hayes Seed House, as a visit will convince you. Mr. Gene Hayes, the proprietor, is one of the leading seedsmen in the Missouri Valley and has built up a splendid business with the producers of this section through fair dealing, close prices and furnishing good seed that will grow. Mr. Hayes is a successful producer, too, and this year has a splendid crop of potatoes, alfalfa, corn, oats, artichokes, feterita, millet, sorghum and other farm crops. He will select and grade this seed and samples will be on display to visitors. It would be a good time while in Topeka to look at what he will have to offer, and you can have your seed selected and be sure of what you will get next spring. Mr. Hayes is in the market now for good clean alfalfa seed, seed corn, feterita, cane seed, millet, kafir and all grass and field seeds. If you have any seed to sell, write to the Hayes Seed House, 524-526 North Kansas Avenue, Topeka, Kan.

**\$16 Buys This Improved**

**SIX-FOOT ALL-STEEL WINDMILL.** If you want to buy a light running all-steel windmill, guaranteed for five years, buy the new Improved Clipper. Money back if you are not satisfied. Over 1,000 Clipper Windmills in use. Six-foot mill without tower, \$16; mill and 20-foot tower, \$32.50. We make all sizes and ship promptly. We are agents for the Westchester Gasoline Engines, gas, gasoline or coal oil burners; 1 1/2 horsepower, \$35. Have any size you want up to 12 horsepower.

Shapp & Irving, Proprietors.  
**CLIPPER WINDMILL & PUMP COMPANY**  
Topeka, Kansas.

**Bargains in Land**

**CENTRAL MISSOURI FARMS**—Write for descriptive price list of corn, wheat, clover and bluegrass farms that will prove profitable and satisfactory. 100 improved farms described and priced in Callaway County, the home of the big bluegrass pasture and the banner mule county of the world. **HAMILTON & CRENSHAW, Box 5, Fulton, Mo.**

**WE SELL OR TRADE ANYTHING, ANYWHERE.**  
**REALTY EXCHANGE CO., NEWTON, KAN.**

**ALFALFA AND CORN FARM**

**Northeastern Oklahoma**—first and second river bottom; 715 acres in 550 cultivated; 40 fine timber; balance meadow; abundance of water; natural gas for house use; finest soil. Great bargain at \$45 per acre. Terms. **BEARD LAND CO., Muskogee, Okla.**

**14 Quarter Sections, 2 to 6 miles from Richfield** county seat, Morton County. Will sell by quarters, halves or sections to suit purchaser. Price, \$7.50 to \$9 per acre, half cash, balance 5 years at 7%; in shallow water district. Hundreds of bargains in good farms in proven territory. **Thos. Darcy, the Land Man, Offerle, Kan.**

**FOR SALE**—320 acres of slightly rolling upland, with part of it low enough that it will raise alfalfa; 4-room frame house, nice little barn for 8 head of horses, granary for 1,000 bushels of grain, splendid well of soft water; 290 acres in cultivation, balance meadow and pasture; 100 acres rented for wheat, one-third to purchaser; 190 acres for spring crops. This farm is so situated that grain and feed crops always command a good price from ranch owners in the Brookville district. A bargain at \$45.00 an acre. Write for list of 100 Central Kansas farms for sale. **V. E. NIQUETTE, Salina, Kansas.**

**FARM OF 640 ACRES FOR SALE** in Morris County, Kansas, within radius of 8 miles having four towns, on three different railroads; fenced all around and cross-fenced hog-tight; 80 acres in splendid corn; 35 acres kafir corn; 35 acres feterita; all goes with farm; 190 acres in pasture and meadow, balance in cultivation; wheat made 30 bushels to the acre; will be sold all right; all necessary buildings on place; also new Perfection silo, 185 tons. Write owner, **David Goertz, Route 4, Hillsboro, Kansas.**

**160 ACRES** 1 1/2 miles from good town on main line of Mo. Pac. Ry.; in the oil and gas belt; farm pays oil royalty of \$15 per month; 60 acres in cultivation, balance in fine blue stem grass; 20 acres in alfalfa. This is a fine creek bottom farm and one of the best stock and grain propositions in the country. Farm fenced and cross fenced; no other improvements; no agents; will sell direct to purchaser on easy terms. Address **Lock Box 761, Fredonia, Kansas.**

**IRRIGATED ALFALFA LANDS** In the wonderful Pecos Valley of Texas. Most profitable farming in the world; 5 to 7 cuttings annually with average price above \$14 five years past; finest fruit in America; better climate than Kansas; cheapest water; lowest taxation and freight rates; best and cheapest irrigated land anywhere; will sell 20 acres or more on terms to suit, or accept choice city or farm realty in payment. Special inducements to colonies. Write for full particulars. **STRATTON LAND CO., Wichita, Kansas.**

# The Wichita Union Stock Yards

## The Market That Satisfies

### Where You Get The Price and The Fill The Greatest Industry In Kansas

The most convenient and profitable live stock market in the West. Concrete dipping vats for the dipping of quarantine and native stock. Two large concrete horse and mule barns with daily capacity of 1,000 head. The shipper will net more dollars at Wichita than at any market in the world.

You Will Ship to Wichita Some Day. Why Not Today?

**C. H. BROOKS, President.**

**J. A. McNAUGHTON, Vice-President.**

**C. C. MINER, Secretary-Treasurer.**

**D. C. SMITH, General Manager.**

**MAKING SERUM IN WICHITA.**

The business of manufacturing hog cholera serum is taking on more importance and is of greater interest to the farmers and hog raisers of Kansas every day. Secretary Mohler of the Agricultural Department of this state showed in his last report that more loss was sustained in the hog raising industry from cholera last year than all other contributing causes put together and the movement nationally as well as locally is toward vaccination as a preventative.

At this time Kansas has a law which compels every hog brought into this state, except for immediate slaughter to be vaccinated. The theory of hog cholera prevention has been so well worked out and demonstrated that it can now be said to have been absolutely proved that this greatest of swine plagues can be controlled if not absolutely eradicated by co-operation among raisers and the use of good serum properly administered.

Among the companies making a business of the manufacture of this serum commercially there is one which stands out prominently in the southwest, and is favorably known throughout Kansas, Oklahoma, Iowa and Nebraska. This is the Wichita-Oklahoma Serum Company of Wichita, Kansas, and Oklahoma City, Oklahoma.

This company has a reputation for high-potency and satisfactory results in its product which is the envy of all its competitors. The officers of this company are: H. E. Newlin, president and general manager; A. B. Moore, vice-president, and A. A. Reefe, secretary. These are all business men of considerable experience and all practical men in either serum manufacture or hog and cattle business. They are men of integrity who believe in making the best product possible and have ample means to install and equip the necessary plant for the work.

Two veterinarians are in charge of the technical part of their plant and both are men eminently qualified to fill their positions. One of them, Dr. P. J. Meenan was for five years with Mulford who conducts the largest laboratories in the world.

The plant of the Wichita-Oklahoma Serum Company is a model of its kind. Everything that will contribute to sanitation and consequent potency and quality in the output has been installed in these laboratories. Every part of this company's manufacturing process is inspected by government men and bears their stamp of approval.

One very good and convincing argument in favor of the Wichita-Oklahoma Serum Company's product is the fact that last year its loss in healthy herds from vaccination was only one and one-half per cent. When you consider that it sold last year over a quarter of a million doses, or enough to vaccinate one-seventh of the hogs grown in Kansas this record takes on added significance. It shows absolutely that its product is pure and free from contamination of every kind and also that it is real Niles-Dorsett serum and capable of overcoming that dread disease, hog cholera.

There are several reasons for the phenomenal success of this company during the past three years and one of the biggest is H. E. Newlin, the manager. He is thoroughly experienced in every detail of the business, both in the manufacture and administration of serum. This is not all, however, for he manages the business in fact as well as name and sees to it personally that things are done as they should be. He is assisted by skilled men picked for their ability in this work and the result is bound to be a serum product that is a standard of itself.

If every serum company in America made as good a product as the Wichita-Oklahoma turns out the fight against hog cholera would be limited in time and successful beyond a doubt.—Adv.

**HOW A BIG COMMISSION BUSINESS HAS BEEN BUILT.**

One of the commission firms which has been a great factor in building up the Wichita stock yards is that of Paugh & Company. It has been active in that market for twenty-two years and is one of the oldest at the yards. The firm is composed of W. M. Paugh, G. W. Kanavel and A. E. Lehrling. W. M. Paugh has been the active head and manager of the business for twenty-two years and it is safe to say that no man at the Wichita stock yards enjoys a wider acquaintance or is more widely known among cattle shippers than he. It has been largely due to his close application to business, together with the staid policy of the firm to give the best of care to cattle consigned to it, that has made this firm so successful. During all of the twenty-two years Mr. Paugh has been absent only two weeks.

Mr. Paugh is a great booster for the Wichita market, especially for stockers and feeders. He points out that shippers to this market have the shortest possible haul from grass and consequently the cattle come and go in good condition. Another recommendation that Mr. Paugh is always making to stockmen is the combination of hogs, alfalfa and corn and he has been instrumental in many instances is not only increasing some farmer's personal profits, but also doing a service to the Wichita hog market. He has been prominently identified with every movement for the betterment of either Wichita stock yards or the city of Wichita, and can truthfully be classed as a "booster."—Adv.

**UNION STOCK YARDS NATIONAL BANK, WICHITA, KAN.**

This bank began a general commercial banking business in May, 1910, and has now grown to proportions where it is rated as one of the important factors in the financial circles of the Southwest. They cater especially to cattle interests and provide every facility possible to the shipper in keeping with sound banking.

The officers of this bank are F. T. Ransom, president, and J. M. Reynolds, vice-president and cashier. Mr. Ransom was formerly with the Stock Yards National Bank of St. Louis and has had a thorough experience in all phases of bank-

ing. Mr. Reynolds was for five years state bank examiner, and through this position enjoys the acquaintance of most of the country bankers of Kansas.

Two years ago the stockholders of this bank organized a Cattle Loan Company which has been a big help to the Wichita market. They have over \$800,000 loaned on cattle and are instrumental in interesting eastern capital in behalf of Kansas feeders and stock raisers.—Adv.

**HEALY & COMPANY.**

E. J. Healy is the pioneer commission man of the Wichita yards. He has been active there for twenty-five years and has not only been a successful business man, but a gentleman held in high esteem by all who know him. He does a general commission business in cattle, sheep and hogs, and has made his big success by adhering strictly to the policy of fair and honorable treatment to both shipper and buyer. He was for years a shipper himself and knows how to satisfy them. He has for the past forty-four years been engaged in this line of work and knows every detail of it. No shipper ever made a mistake when he trusted Mr. Healy with his cattle.—Adv.

**UNION LIVE STOCK COMMISSION COMPANY.**

This company was established eighteen years ago at Wichita Stock Yards and the success of it has been shown by the fact that the Union stood second in volume of business done at the yards last year. Although they do a general commission business, they specialize in the handling of stock cattle and bought more orders of this particular kind last year than any other firm in that market. They protect the interests of the shipper to the best of their ability and have built up their big volume of business upon the consequent satisfaction which they give.

The officers of the firm are: A. B. Moore, president; H. E. Newlin, vice-president, and A. A. Reife, secretary and treasurer. All of these men are thoroughly experienced in the live stock industry and active in the business. Mr. Reife, who is the manager, enjoys a very wide acquaintance among shippers in the Southwest and is considered by all to be a man above reproach when it comes to fair and honorable dealing.—Adv.

**Value of Balanced Ration.**

The value of properly balancing the rations for dairy cows is shown in the instance of S. F. Nichols, of Beatrice, Neb. With a ration consisting of silage, alfalfa, and ear corn meal costing \$6.90 per day for twenty cows, the average product for three days was 307 pounds of milk valued at 3 cents, giving returns of \$2.31 per day above the cost of feed. With the ration properly balanced by addition of oil meal and bran and decreasing the ear corn meal, the cost of feed for the same cows was \$6.76 per day. The average amount of milk given for three days was 379 pounds, which at 3 cents gave a profit above cost of feed of \$4.61. The value of the balanced ration above that formerly fed was \$2.30 per day in increased returns.



**Certain-teed ROOFING**

**The General says:-**

Eggs are eggs—when your hens don't lay. A warm chicken house encourages the hens. Make the roof—and sides too—of

**Certain-teed ROOFING**

—The label guarantees it for 15 years—the three biggest mills in the roofing industry are behind that label. No roofing "tests" can give you that assurance.

Your dealer can furnish *Certain-teed* Roofing in rolls and shingles—made by the *General Roofing Mfg. Co.*, world's largest roofing manufacturers, East St. Louis, Ill., Marcellus, Ill., York, Pa.

**Do Not Depend on One Crop**

Secretary Mohler, of the Kansas Board of Agriculture, gave those in attendance at the Ottawa Chautauqua these thoughts to browse upon:

"The farmer who milks some cows, has a flock of fowls, a patch of alfalfa, and plants some ground to the never-failing sorghums, is sure of a regular income whether the season be wet or dry, and is on the highway to assured success. Those who 'put all their eggs in one basket,' like the man who depended wholly on wheat that fails, are the ones who find themselves in uncomfortable situations. The uncertainties and shortcomings of straight grain farming, whether wheat or corn, or both, have been long apparent, in spite of adaptability of soil and climate.

"There is a possible aftermath of this year's big wheat crop I think worth bringing to attention, and that is the increased sowing it may induce this coming fall. In my opinion—and this is not advice, just simply giving you something to turn over in your minds—it would be injudicious to go in for more acres of wheat. Let's not be carried away in our enthusiasm because of this year's success, and sow more wheat and depend on it too strongly.

"Farmers' operations are, of course, largely governed by their circumstances, but experience has shown that too much dependence on wheat often results in disappointment and debt. Let us remember that considerable areas of wheat were sown under unusually favorable conditions last fall—in fields that were practically summer fallowed, owing to the cultivation of corn that failed.

"Moreover, it is history that good crop seasons follow dry years, as the baking of the earth, the cracking of the soil and the rest the land has had, all contribute to creating conditions favorable to succeeding crops. Let us adhere to the growing belief that it is the best policy to follow a well ordered diversity in connection with live stock and the silo."

**Trust Company Enters New Field.**

Each year more and more farmers are investing in bank stock. Such stocks are safe investments, of certain earning capacity, quick collateral and readily saleable. The South-Western Trust Company, now being organized in Kansas City and which organization is now nearly complete, will specialize in the handling of farm mortgages along the line of the rural credit plan now before Congress, and to accomplish its



plans is offering the sale of its stock to the farmers of Kansas. The idea of the farmer, as an investor, being permitted to make a profit in dividends from the farm mortgage business, is one that has not been followed in this section of the United States. The stock of the company is being distributed in Kansas, Northern Oklahoma, Southwestern Iowa, Southeastern Nebraska and Western Missouri, covering possibly the most valuable farm loan security in the United States, and the percentage of profits should be large.

The organization of the South-Western Trust Company has attracted much attention in financial circles because of the unique methods employed and of the business policy to be pursued. It is not the purpose of the new company to accept commercial checking accounts, but to devote its energies exclusively to a trust business as well as farm mortgages, commercial paper, and to cooperate with country banks, etc. Its business will be like that of the exceedingly prosperous trust companies in eastern cities and it will have the field to itself, as there is no similar organization in the Southwest. Already many well known bankers and business men in this section have become identified with the new company, for it is expected to be an especially profitable investment for the stockholders. The new institution is organizing under the Missouri banking laws, thereby insuring protection for all owners of stock.

The executive offices of the new trust company are in the Commerce building, Kansas City. Mr. Blackmore Louis, secretary of the organization committee, will be glad to furnish particulars.

If you are going to exhibit some birds at the fall fairs, it is time you were taking them in hand. They will need extra care, extra feed and special handling before they are fit for exhibition purposes.

**Your Own Tinsmith**

SEAL THE LEAKS IN MILK CANS, BOILERS, POTS AND KETTLES, WITH

**Hollenbeck's Metal Court Plaster and Three Ply Metals**

Which is a thoroughly practical article which can be easily applied to any metal except aluminum, and by anyone in mending all kinds of Pipe, Granite-ware, Cooking Utensils, etc.

A package of fifteen square inches of Hollenbeck's Metal Court Plaster will be mailed, postage prepaid, to any address in the United States, on receipt of 25 cents.

If package is required to be registered for safe delivery, add 10 cents to pay same. Write, Gardiner Specialty Co., 4533 Payne Avenue, CLEVELAND, O.

**10c**

This Surprising 88¢ Bargain. Where have you ever seen such a remarkable bargain? You would expect to pay \$1.00 for a season of equal quality. We show it here to give you an idea of the amazing value offered in our Big Bargain Book. Write for it today—now.

**Order Now**

Send 10c for one of these big books at our risk. Your money back if not perfectly satisfied. Made of good quality blue and white checked paper—very durable and handsome like new. Neatly bound around the edges with white cord. Has a decorative white cloth waist band. It extends around the neck. Has neat patch pocket in front. Color—blue and white check only. Order by No. 2348. We pay postage. Check only 10c.

**Send Today for Bargain Book**

of wearing apparel in newest styles. Mailed by **W. & H. WALKER**, 892 Herr's Island Ave., PITTSBURGH, PA.



**Weigh Your Own Produce**

and know positively that you are getting a "square deal."

Mistakes may cost you thousands of dollars. You have absolute protection with a

**MCDONALD PITLESS SCALE.**

It is the most substantially built, the strongest, heaviest, most accurate wagon and stock scale you can buy at any price. Requires no pit. Can be erected by anybody. Channel steel frame will last a lifetime—Protected bearings—Cannot freeze. Used for weighing U.S. Mails. Unequaled accuracy.

Write for FREE BOOKLET. Flying Dutchman Dealers sell them.

**MOLINE PLOW CO.**  
Dept. 4 MOLINE, ILL.

The Fulton Supply Company, 1600 Fulton Street, Chicago, Ill., is advertising in this issue of Kansas Farmer, their heavy feeding troughs, for which they claim excellent results, and they would be glad to send complete information regarding these troughs for the asking to those who mention Kansas Farmer.

**GOOD LUMBER CHEAP**

**Posts, Roofing, Millwork, PAINT and CEMENT**

Most economically conducted.

The **LARGEST** stock of **NEW BRIGHT LUMBER**—The greatest proportion all under cover.

The **LONGEST LIST** of satisfied customers of any institution in the Lumber Business in all the Middle West.

The most competent **EXPERT** management—over 25 years in the manufacturing, wholesaling and retailing.

**THE MOST JUST TERMS**—

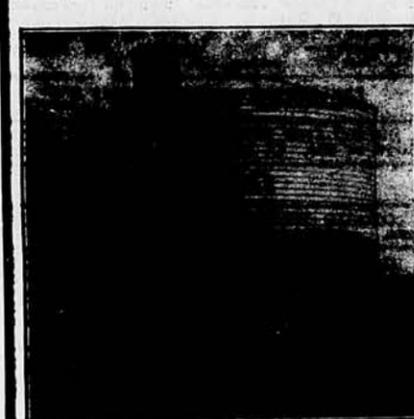
Come and see—If misrepresented in any way, all expenses refunded. We ship direct from the Mill and save extra freight and handling, as well as from our very complete stock at Omaha.

**HAVE SAVED 50% MANY MEN**

**FARMERS LUMBER CO.**  
(Capital \$250,000.00)  
24th and Boyd, Sts., Omaha, Nebraska.

**WHEAT AND CORN BIN** Made of Corrugated Iron

**Buy Today and Store Your Crops for Higher Prices**



Here is the "SECURITY," the strongest, safest and most convenient metal grain bin you can buy. It has many exclusive features not offered in any other bins and is adapted, with ventilating system, to store wheat, corn and other grains. It is made of No. 20-gauge corrugated sheet iron and will last a lifetime. Each bin is shipped complete all ready to set up. Anyone can put a SECURITY metal grain bin together in a few hours.

Corrugated sheets are much stronger than smooth sheets, as corrugation strengthens metal to twenty-nine times that of smooth sheets.

Being made of No. 20-gauge corrugated iron sheets, the sides of a SECURITY do not require bands or braces of any sort. The manhole in the roof is the largest put on any metal grain bin and, as shown in illustration, the dormer window feature makes it possible to scoop grain into the bin during a high wind without scattering.

The rafter frame is not a part of the covering of the roof and is erected before putting on the sections. This makes it easier to put on and stronger. The roof is the strongest made and is built to resist the weight of winter snows.

The ventilating system of the SECURITY is the most practical yet devised, and when you see one you will wonder that it wasn't thought of before. This bin can be placed on sled runners and hauled around when empty. All that is necessary for a base is a few plank laid level on the ground, with drainage trench.

There is absolutely no question about the necessity of a SECURITY granary on your farm. Write today for free booklet fully describing the different sized bins we make. We are prepared to make quick shipments. A spout for running grain into wagon or sacks is furnished with each bin. This bin is fire-proof, rain-proof, and mouse-proof, and if the price of grain continues upward, as everything indicates that it will, the increased value of your grain stored will much more than pay for the bin this year. Address all communications to

**THE KANSAS CULVERT CO.**  
411 North Tenth St., Salina, Kansas  
Manufacturers of Corrugated Culverts and Tanks of All Kinds.

Established 1894. Local and Long Distance Telephones 192.

**L. M. Penwell FUNERAL DIRECTOR**

506-508-510 Quincy Street  
Topeka, Kansas

PRIVATE CHAPEL AND PARLORS, LADY ATTENDANTS.

# Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your advertisement here reaches over 300,000 readers for 4 cents a word per week. No "ad" taken for less than 60 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order.

**SITUATIONS WANTED** ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

## HELP WANTED.

**GOVERNMENT FARMERS WANTED**—Age 21 to 50. Good salary. Write Ozment, 44-F, St. Louis.

**AGENTS WANTED TO SELL STAND-**ard acetylene lighting plants. The successful farm home light. Write Acetylene actory, Wichita, Kan.

**RAILWAY MAIL, CLERK-CARRIERS,** and rural carriers wanted. I conducted examinations—can help you. Trial examination free. Ozment, 44-R, St. Louis.

**WILL PAY RELIABLE MAN OR** woman \$12.50 to distribute 100 free packages Perfumed Borax Soap Powder among friends; no money required. Ward Company, 214 Institute Place, Chicago.

**WANTED—MARRIED MAN FOR 25** to 30 dairy cows, close to small town. Work consists of milking cows, feeding and caring for them and separating milk. Wages, \$50 per month. J. P. Nolan, Garden City, Kan.

**WANTED—FOUR MARRIED MEN WITH** families to work on stock and grain ranch by the month the year around. Separate roomy houses furnished. R. A. McMath, Minneola, Kan.

**THOUSANDS OF GOVERNMENT LIFE** jobs now open to men and women. \$65 to \$150 month. No layoffs. Summer vacations with full pay. Common education sufficient. Full directions how to get position—free. Write immediately, Franklin Institute, Dept. K-82, Rochester, N. Y.

**FREE ILLUSTRATE DBOOK TELLS OF** about 300,000 protected positions in U. S. service. Thousands of vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Just ask for booklet S-809. No obligation. Earl Hopkins, Washington, D. C.

**WE WILL PAY YOU \$120 TO DISTRIBUTE** religious literature in your community. Sixty days' work. Experience not required. Man or woman. Opportunity for promotion. Spare time may be used. International Bible Press, 200 Winston Building, Philadelphia.

**YOUNG MAN, WOULD YOU ACCEPT** and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job? Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Co., Dept. 873, Chicago.

**SALESMEN—EARN \$2,000 TO \$4,000 A** year. New combination, 12 tools in one. Sells at sight to contractors, farmers, teamsters, fence builders, threshers, miners. Weighs 24 pounds, lifts 3 tons. Stretches wire, pulls posts, holsts, etc. Chance for men who want honest money making proposition. Harrah Manufacturing Co., Box M, Bloomfield, Ind.

**WANTED—AGENTS, SALESMEN AND** solicitors, ladies and gentlemen, to take orders for electric appliances. Morse Family Paraffin Battery, Voltaic Electric Insoles, Lung and Chest Protectors, Catarrh Inhalers, and new Abdominal Supporters. Lectures on electricity and catalog sent free of charge. Write today for a catalog. Our agents make big money taking orders. The Electrical Appliance Co., 217 West Fifth St., Topeka, Kan.

## REAL ESTATE.

**FORTY ACRES FOR SALE WITH CROP.** F. A. Sudheimer, Route 1, Chandler, Okla.

**RANCHES—I HAVE TWO GOOD** ranches for sale on easy terms. For information apply to J. R. Phelan, Alliance, Neb.

**WANTED—TO HEAR FROM OWNER OF** good farm for sale. Send description and cash price. D. F. Bush, Minneapolis, Minn.

**POOR MAN'S CHANCE.—DEAL WITH** owner for 160 acres creek valley, alfalfa, corn, wheat, well improved farm. H. H. Burns, Argonia, Sumner Co., Kan.

**960 OR 480 ACRES GOOD SMOOTH** wheat or pasture land, Ford County, such as sells at \$25 to \$30, goes to quick buyer at \$15. Reeves & Sons, Dodge City.

**A GOOD SECTION OF PRAIRIE LAND** and fenced in Gove County, Kansas. Price, \$4,000. Will trade half for beef-bred cows. Henry Hagen, Arapahoe, Colo.

**FOR SALE—HALF SECTION OF LAND** 5 miles south of Cimarron, Gray County, Kansas. A bargain for someone. R. H. Beals, Owner, St. John, Kan.

**LIST YOUR FARMS, RANCHES AND** city property with me for sale or exchange. R. F. Glinder, real estate specialist, 501 New England Bldg., Topeka, Kan.

**137 ACRES, WALLACE COUNTY LAND,** at \$8 per acre. Will take good 5-passenger auto in up to \$500, balance part cash and part time if wanted. John Bygren, Weskan, Kan.

**FOR SALE OR EXCHANGE—480 ACRES** of irrigated land in the famous San Luis Valley, Colorado; 6 miles south of Alamosa. For further information write P. E. Benson, Littleton, Iowa.

**STOCK FARM—1,500 ACRES, 100 IN** cultivation, abundant grass and water, on good public road, 10 miles from Cleburne; fine place to raise stock; small cash payment, balance on easy terms at low rate of interest. Owner, Box 16, Cleburne, Texas.

**FARMS WANTED—WE HAVE DIRECT** buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 43 Palace Bldg., Minneapolis, Minn.

**KANSAS CITY BUSINESS PROPERTY,** 150x50 feet, corner Fifth and Troost Ave., must be sold to settle an estate. A rare bargain in the fastest growing city in the West. Address K. C. Property, care of Kansas Farmer.

## REAL ESTATE.

**OZARK FARMS AND PASTURE LAND** at lowest prices and liberal terms. Write for list. Avery & Stephens, Mansfield, Mo.

**RICH BOTTOM LAND IN FAMOUS OIL** best, Tulsa County, Oklahoma. Price, location and terms right. C. H. Cleveland, Skiatook, Okla.

**NEW MEXICO. FOR SALE—160 ACRES** in growing country, 5 miles from county seat of 4,000; level deep rich soil, every acre tillable. Will double in value in few years. Bargain as farm or investment. Must sell. Write W. W. Wilson, Dryad, Wash.

**FOR SALE—844 ACRES OF FINE RICH** chocolate loam soil, underlaid with shallow water and covered with heavy coat of grass. Soil three to six feet deep, 99 per cent tillable, and three miles this town. Fine crops here. Price, \$12.50 per acre. Easy terms and long time. Address R. J. Murray, Slaton, Lubbock Co., Texas.

**STOCK FARMS—ONE OF THE BEST** farms in Lonoke County; ideal location for a home, close to market, schools and churches; healthy neighborhood. 402 acres, must sell at once, \$12,000. Rare opportunity. For terms and description address the owner, S. D. Ross, Lonoke, Ark.

**SHIELDS RIVER VALLEY IS MONTANA'S** best farm lands by actual prize tests. 200 acres, fenced, level, running water, fine meadow, 120 acres plowed for spring planting, \$40 per acre. Eggs, dairying, general farming. Smaller and larger farms, \$18.00 up. Easy terms. Good roads. Close to railroad. Good town. Your opportunity. Act now. John Hefferlin, Owner, Livingston, Montana.

**THE MULTI-CROP COUNTRY.—THERE** are good reasons for the influx of farmers to the southern country. They can buy land at low prices and get the increase in value. They can make good money from the crops. They have a healthful climate, pure water and plenty of wood. Ask for literature, free. Wm. Nicholson, Immigration Agent, Kansas City Southern Railway Co., Room 414 K. C. S. Bldg., Kansas City, Mo.

**VICTORIA, AUSTRALIA WANTS SET-**tlers; special inducements; government land; railroads; free schools; cheap irrigation; \$1 years to pay for farms adapted to alfalfa, corn, grains, fruit, etc.; climate like California; ample markets; reduced passages; special excursion next November; free particulars from F. T. A. Fricke, Government Representative from Victoria, 687 Market St., San Francisco, Calif. Box 34.

## HORSES AND MULES

**SHEPHERD PONIES FOR SALE, FROM** herd of 100. C. H. Clark, LeCompton, Kan.

## CATTLE.

**GRADE HOLSTEIN COWS AND HEIF-**ers. Arnold & Brady, Manhattan, Kan.

**CARLOAD OF TWO-YEAR-OLD HIGH** grade Jersey heifers. Geo. Aid, Gallatin, Mo.

**FOR SALE—REGISTERED HOLSTEIN** bulls. Smith & Hughes, Route 2, Topeka, Kan.

**FOR SALE—DOUBLE STANDARD** Polled Durham bulls, cows and heifers, also some high grade cows and heifers. C. M. Albright, Overbrook, Kan.

**FOR SALE—100 REGISTERED HERE-**ford cows, calves, bulls and heifers; 20 registered Poland China boars, bred sows and gilts. Also a flock of B. F. Rock cockerels, Bradley strain. Write or come quick. Fred R. Cottrell, Irving, Kan.

**HERE HE IS, MR. JERSEY BREEDER:** A show calf out of a show cow sired by a show bull. Solid coal black points, dropped March 25, 1914. Price, \$100. Also one dropped July 13, 1914, price \$50. These calves registered, transferred and crated f. o. b. Sarcoxie, Mo. Answer quick, this appears but once. Cave Spring Registered Jersey Farm, Sarcoxie, Mo.

**FOR THE NEXT 90 DAYS WE ARE DIS-**posing of all our Holstein calves, from heavy producing high grade Holstein sires, and a very fine registered Holstein sire. The calves are from 4 to 6 weeks old, weaned, beautifully marked, strong and vigorous. Either sex, \$17, crated for shipment to any point. If you wish to get a start with good ones, send your order at once. Whitewater Stock Farm, Whitewater, Wis.

## SERUM.

**VACCINATE AND SAVE YOUR HOGS.** The old pioneer house, The Shihler Hog Cholera Serum Co., 1602 West 16th St., will immunize your hogs for life. Testimonials from all over the United States.

## HOGS.

**O. I. C. BOARS AND GILTS. ROY S.** Enight, Burns, Kan.

**REGISTERED HAMPSHIRE—MARCH** boars for sale. Write for prices. B. F. Fleischer, Hoyt, Kan.

## SHEEP.

**REGISTERED SHROPSHIRE RAMS—**Yearlings, \$20 to \$30. Also registered Scotch Collie pups, \$3 and \$5. Will show at Topeka State Fair September 14. Clarence Lacey, Maple Hill Farm, Meriden, Kan. Mutual and Independent phones.

## CREAM.

**CREAM WANTED.—THE TOPEKA PURE** Milk Company makes butter, lots of it. We pay the highest market price to farmers who ship their cream direct to us. Prompt return of cans and check for cream. We solicit you for a trial shipment. Fourth and Jackson Streets, Topeka, Kan.

## POULTRY.

**BUFF WYANDOTTES—THE UTILITY** breed. A splendid lot of youngsters coming on. Wheeler & Wylie, Manhattan, Kan.

**FORTY-THREE VARIETIES POULTRY,** pigeons. Special prices on young stock. Incubators, supplies. Catalog, 4c. Missouri Squab Co., Dept. D. R., Kirkwood, Mo.

**S. C. WHITE LEGHORNS, THE KIND** that lay eggs. Eggs for hatching, \$1 for 17; \$5 per 100. Write J. L. Shaner, Route 1, Maple Hill, Kan.

**PURE AND WHITE, ALSO PURE** White Indian Runners, Pekin Ducks, White Guineas, Geese, Chickens. Stock only. Emma Ahlstedt, Roxbury, Kan.

**INDIAN RUNNER DUCKS AND DRAKES,** S. C. Buff Orpingtons, B. Plymouth Rock cockerels. Good stuff at right prices. Geo. Hawes, Wakefield, Kan.

**EGGS FOR HATCHING FROM PURE-**bred ducks, turkeys and chickens. Poland China pigs, the big easy-keeping kind, \$8 each, \$15 a pair (not related). Mrs. Maggie Rieff, St. Peters, Minn.

**R. C. RED EGGS FOR HATCHING FROM** Ingtons, S. C. W. Leghorns, Indian Runner Ducks. These are all from prize winning stock. Eleanor Poultry Ranch, Brighton, Colo.

**OUR WHITE ROCKS HAVE WON MAJORITY** prizes wherever shown. I have 200 for sale, cockerels and pullets. Satisfaction guaranteed. We also can furnish matured cockerels for shows. W. K. Trumbo, Roseland, Kan.

**I DEFY ANY MAN ANYWHERE TO** give you better quality in combined bred-to-lay and exhibition S. C. White Leghorn eggs. They cannot do it. Ninety per cent fertility guaranteed. \$1 per 15; \$6 per 100. Send for my illustrated mating list. Geo. E. Mallory, Box 476, Boulder, Colo.

## TOBACCO.

**FOR SALE—FINE LEAF, CHEWING** and smoking tobacco. Send stamps for free samples. W. L. Parks Tobacco Co., Adams, Tenn.

## MISCELLANEOUS.

**WE MAKE ALL KINDS OF STEEL** tanks, troughs, grain bins, and sell pumps. Prices right. Clipper Windmill Co., Topeka.

**1914 TWO-SPEED YALE MOTORCYCLE,** demonstrator; used very little; bargain. J. C. Harding Co., 106 E. Sixth St., Topeka.

**BUTCHER SHOP AND FIXTURES FOR** sale; good business and location. Sam Wedel, Pawnee Rock, Kan.

## DOGS.

**COLLIE PUPPIES, SABLE & WHITE** Stock Farms, Seward, Kan.

**COLLIE PUPPIES CHEAP. LAWDALE** Kennels, Hiawatha, Kan.

**FULL-BLOOD TRAIL HOUND PUPS FOR** sale, very cheap. Write at once. Melvin L. Rickard, Guide Rock, Neb.

## AUTO PARTS.

**AUTO WRECKING CO., 13TH AND OAK** Kansas City, Mo. We tear em up and sell the pieces. We save you 50 per cent on repair parts. Also buy old autos, condition no object.

**TREES, SEEDS AND PLANTS.**

**WANTED—ALFALFA SEED, SWEET** clover, red clover, etc. Send samples. Hayes Seed House, 524-526 N. Kansas Ave., Topeka, Kan.

**FOR SALE—ALFALFA, SWEET CLO-**ver, red clover, timothy, etc. Samples free. Hayes Seed House, Topeka, Kan.

**TREES AT WHOLESALE PRICES FOR** fall planting. Fruit book free. Address Wichita Nursery, Box L, Wichita, Kan.

**SWEET CLOVER SEED, WHITE AND** yellow, 16 cents pound. W. M. King, Mason, Kentucky.

**ENGLISH BLUEGRASS SEED FOR SALE** at 10 cents per pound, by A. J. Insko, Phone 6612, Independence, Kan.

**HOME GROWN ALFALFA SEED, \$6.00** per bushel; sacks free. Guaranteed free from any foreign seed. T. F. Kreipe, Route 16, Tecumseh, Kan.

**FOR SALE—ABOUT 300 TONS OF AL-**falfa and about 1,000 tons of good prairie hay. Will sell in carload lots, but prefer to sell all together. Chas. I. Zirkle & Co., Garden City, Kan.

## ELECTRIC LANTERNS.

**SERVICEABLE EVERYWHERE. THE** safest, handiest lantern for autoists, merchants, farmers, etc. Turn the switch and get a flood of light. Eliminates filling, matches, oils, danger. Always ready. Price \$3.50 delivered. Safety First Company, Box 477, Wichita, Kan.

## PATENTS.

**PATENTS PROCURED OR FEE RE-**funded. Official drawings free. Send sketch for free search. Patent Exchange, Jordans Bldg., Washington, D. C.

## BEE SUPPLIES.

**FOR SALE—BEES IN 10-FRAME HIVES,** first class shape, \$4.50 per colony. O. A. Keene, 1600 Seward Ave., Topeka, Kan.

## HONEY.

**EXTRACT HONEY, GUARANTEED PURE,** \$9.50 for two 60-pound cans. W. P. Morley, Las Animas, Colo.

## Bargains in Land

**MR. RENTER, HERE'S YOUR CHANCE.** 160 acres well improved; 60 fine pasture, 20 prairie meadow, balance cultivation; some good alfalfa land. For quick sale, \$3,600. Small payments buys it. Write for description and list of Labette County bargains. D. H. WALLINGFORD, Mound Valley, Kan.

## REAL ESTATE BUSINESS PAYS

**BEST. Study during spare time. SERVICE** SYSTEM, 117 N. Dearborn St., Chicago.

**Buy or Trade** with us—Exchange book free. Bersie Agency, Eldorado, Ka.

**320 ACRES DAIRY FARM FOR SALE.** Fully equipped for good business, 25 choice cows. Good improvements. Horses, implements. Will sell part or all, one-third cash, terms to suit buyer. Write for particulars. F. D. WEBB, Sterling, Kansas.

**ANY SIZED Arkansas farm, no rocks,** hills or swamps, all tillable, general farming and fruit \$1.50 per acre down, balance 20 years, 8 per cent. Crop failures unknown. E. T. TETER & CO., Little Rock, Ark.

**FOR SALE.** 270 acres, two miles from station, 18 miles from Emporia; well improved; excellent water; \$40 per acre. List describing farms and ranches mailed on application. G. W. HURLEY, Emporia, Kansas.

**FOR JEFFERSON COUNTY or Northeast** Kansas farms, any size, where alfalfa, bluegrass and corn are the staple crops, at from \$50 to \$100 per acre. Write or see. The Harman Farm Agency, Valley Falls, Ka.

**160 ACRES, 5 1/2 miles Chanute; 90 a. cult.** some creek bottom, good house, large barn, 1 mi. school, free gas. Will carry \$5,500 at 5 per cent. Price, \$8,000. Other good farms. J. L. TAYLOR, Chanute, Kan.

**Wakarusa Bottom 160 ACRES—135 in** cult., 18 acres alfalfa, timothy; 80 hog-tight; 6-room house, good barn, near schools, 3 1/2 mi. to railroad. \$80 per a. W. M. Forbes & Co., Topeka, Kan.

**SPECIAL SNAP.** Eighty acres, improved, well located, in Southeastern Kansas. Terms, \$800 cash, balance in small payments from 2 to 10 years. Price very low. Fine climate. Big crops. Send for illustrated booklet. Address, THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

## Look At This

**230 ACRES, 8 miles McAlester; 75 acres** tillable, balance pasture. \$12.50 per acre. Worth \$20. \$2,000 incumbrance, 4 years. SOUTHERN REALTY CO., McAlester, Okla.

**NOTICE—We are making exchanges of all** kinds of property, no matter where located. Send your description at once and get terms. No fees.

**MID-WEST REALTY EXCHANGE,** Dept. 6, Riverton, Nebraska.

**FOR RENT OR SALE—240 acres improved** irrigated farm near Wheatland, Wyoming. Good soil, climate, and abundant water. All farm products thrive, especially alfalfa and wheat. Give renter option to buy. WALTER ASHTON SMITH, OWNER, Mulvane Building, Topeka, Kansas.

**North Central Kansas—480 acres, dandy** creek, grain and stock farm, close to high school, German church (Mo. Synod) and school. Price, \$30 a. Write for particulars. Make personal inspection is better. J. F. BAUM, Natoma, Kan.

**RENTER'S OPPORTUNITY.** Lyon Co. 80 imp., 60 a. cult., 10 a. alfalfa, \$3,200; mtg. \$1,600. 50 a. unimp., 10 a. located, \$2,800; easy terms. Now is your time to own a farm. Other good bargains. List free. FRED J. WEGLEY, Emporia, Kansas.

## FOR SALE

**Modern six-room house and 1 1/2 lots in** Emporia, Lyon County, Kansas. Easy terms. Gas, electricity, bath, paved streets, taxes paid, one block from Santa Fe station and car line, four blocks from main street; out-buildings and good shade. Good investment as a rental. Hasn't been idle a month since built. Write Chas. Clarke, 334 Kansas Ave., Topeka, Kan.

## IRRIGATED ALFALFA FARM

**I will trade my irrigated alfalfa farm of** 320 acres, every acre good, well pumping 1,500 gallons water per minute, 70 acres in alfalfa, located in the Plainview shallow water district. No junk considered. J. WALTER DAX, OWNER, Plainview, Texas.

## FOR SOON SALE

**120 acres nice smooth land, 60 in culti-**vation, 30 smooth meadow, balance pasture. This land is rich and productive, crop will show for itself. Good house, cellar and out-buildings, big barn, fruit, fine water, nicely located. Only \$25 per acre. Will carry \$1,500 back on land. If you want this, come at once. F. D. GREENE, Longton, Kansas.

## A BARGAIN

**90 Acres, 1/2 mile university, 1/2 mile street** car. Extra good improvements, water and furnace heat in house; ideal home. Owner, N. A. GWIN, Lawrence, Kan.

## FOR SALE

**Three lots, 8-room house, good barn, cistern,** city water and gas; one-half block of Gage Park line, 20 minutes' walk of High School and Washburn College. Price, \$2,500. One-half cash, easy terms on balance. W. A. Bowles, 715 Morris Ave., Topeka, Kan. Owner.

## FOR SALE

**Eighty Acres of the best bottom land in** Kansas. This land is all in cultivation but unimproved. The land lies due south of Salina on the Ninth Street road, only two miles from the Wesleyan University. We could sell either the north or south 80 and might get the owner's consent to sell the whole quarter. This farm has not changed hands in 45 years, and no other land in that locality is for sale at any price. Notwithstanding these facts, we are in position to offer it at \$50 per acre margin. Here is an opportunity to own the best farm in Kansas. The R. P. CRAVENS AGENCY, Salina, Kan.

## Bargains.

**You can save many dollars every year by** ordering your wearing apparel from the National Cloak & Suit Company. Be sure to read their advertisement on another page and send a trial order at their risk. They will refund your money if you are not satisfied.

Breeders' Directory

The following classified list contains the names of many of the reliable breeders of pure-bred live stock. They will gladly answer your inquiries. Your name should be in the list. If interested, write Live Stock Department, Kansas Farmer, for further information.

- HEREFORD CATTLE. H. V. Baldeck, Wellington, Kan.
HOLSTEIN CATTLE. T. M. Ewing, Independence, Kan.
ANGUS CATTLE. R. Blickensdorfer, Lebanon, Mo.
JERSEY CATTLE. C. J. Morek, Storden, Minn.
AYRSHIRE CATTLE. Loveland Farm Co., Omaha, Neb.
POLLED DURHAM CATTLE. J. H. Walker, Lathrop, Mo.
BERKSHIRE HOGS. N. H. Gentry, Sedalia, Mo.

- SHORTHORNS. G. A. Laude & Sons, Rose, Kan.
SHROPSHIRE SHEEP. Locust Lawn Farm, Oakland, Ill.
POLAND CHINA HOGS. P. M. Anderson, Lathrop, Mo.
DUBOC JERSEY HOGS. D. O. Bancroft, Osborne, Kan.
HAMPSHIRE HOGS. H. D. DeKalb, DeKalb, Iowa.

SHROPSHIRE SHEEP

REGISTERED SHROPSHIRE RAMS

Sired by Imported C H Justice (010035R). Choice rams and priced to sell. E. E. LAUGHLIN, Rich Hill, Bates County, Missouri.

ELLIOTT'S SHROPSHIRE SHEEP

Choice two-year-old and yearling rams, sired by imported Buttar ram. Also choice ewes, will be bred to imported ram. Prices reasonable. Satisfaction guaranteed. J. W. ELLIOTT, Polo, Mo.

Doyle Park Shropshires

Fall is here and so are we with a choice lot of registered Shropshire rams. If you need one, write us for prices. DOYLE PARK STOCK FARM, O. A. Homan & Son, Peabody, Kansas.

SHROPSHIRE RAMS AND EWES

150 yearling and two-year-old rams. One imported four-year-old Cooper ram. Ewes any age. Write or visit us. Prices reasonable. DANIEL LEONARD & SONS, Corning, Iowa.

OXFORD DOWN SHEEP

REGISTERED OXFORD DOWN RAMS—One, two and three years old, priced right. T. T. BALLEW, Route 2, Columbia, Mo.

OXFORD AND HAMPSHIRE SHEEP, O. I. C. Hogs, Choice Rams, Bred Sows from show stock. Bargain prices. Hogs immunized, double treatment. W. W. WALTMIER & SONS, Peculiar, Mo.

POLAND CHINAS

HIGHLAND STOCK FARM, Poland Chinas, Shorthorns; choice big-bone spring and summer boars by Expansive Wonder. Also fall boars. BROWN HEDGE, Whiting, Kansas.

MOORE & SON'S POLANDS

Choice male pigs by "Choice Goods," a splendid big-type boar of the great Tecumseh family and out of large, prolific sows of best big-type breeding. Very reasonable. F. E. MOORE, Gardner, Kansas.

MAHAN'S BIG POLANDS have size and quality. Headed by son of Expansive. Sows of unusual size and smoothness. Pigs, either sex. J. D. MAHAN, Whiting, Kansas.

BERKSHIRE HOGS

Large English BERKSHIRES. Choice bred sows and gilts; fall farrow. Choice pigs sired by prize winning boars, either sex. H. E. CONBOY, Nortonville, Kansas.

AUCTIONEERS.

L. R. HAMILTON. Clarksdale, Mo. LIVE STOCK AUCTIONEER. GOOD REFERENCES.

LAFE BURGER. LIVE STOCK AND REAL ESTATE AUCTIONEER. Wellington - Kansas

FRANK J. ZAUN. Fine Stock Auctioneer. Independence, Mo. "Get Zaun. He Knows How." Bell Phone 675 Ind.

P. E. McFADDEN, HOLTON, KANSAS. Live Stock and General Farm AUCTIONEER.

R. L. HARRIMAN. Live Stock Auctioneer. Write for dates, terms, etc. Address, Buncheon, Missouri.

Col. C. A. HAWK. Live Stock and General Auctioneer. Ethingam, Kansas.

John W. Miner. Live stock auctioneer. Give me a trial. Reserve, Kansas.

J. A. MORINE, GENERAL AUCTIONEER. Pure-bred Live Stock a Specialty. Box 155, Lindsborg, Kansas.

Col. C. M. Scott. Live Stock and General AUCTIONEER. Hiawatha, Kansas.

COL. J. E. MARKLEY. Fine Stock and General Auctioneer. Powhattan, Kansas.

COL. FLOYD CONDRAY. Stockdale, Kansas. References—My Customers. Leonard & Sons' Shropshires. The attention of sheep breeders is called to the card of Daniel Leonard & Sons, of Corning, Iowa. The flocks of Shropshires owned by this firm have been established for over half a century. Only imported rams such as years of experience enables them to select without regard to price, are used at the head of the flocks. The type and quality is thoroughly fixed and the uniformity of their Shropshires is remarkable. They are offering 150 yearling and two-year-old rams, ewes of any age, and one imported Cooper ram, a choice individual and a most excellent breeder. They are in a position to furnish breeding stock of unsurpassed quality at reasonable prices. Write them your wants, mentioning Kansas Farmer.

HOLSTEIN CATTLE.

HOLSTEINS and GUERNSEYS FOR SALE

Thirty head of large high-grade nicely-marked Holstein heifers, 3 and 3 years old, due to freshen in September and October. A select lot of 40 large fancy-marked light-colored yearling heifers. Also 20 head of registered and high-grade Guernsey heifers 1 and 2 years old. T. R. MAUREE, Ashland, Ohio.

M. E. MOORE & CO.

CAMERON, MISSOURI. BULL CALVES FROM A. R. O. COWS. Sired by Sir Korndyke Imperial 53683. Calves suitable for heading registered herds.

HOLSTEINS—Best of breeding and individuality. Registered and unregistered O. I. C. sows of best strains. White Wyandotte chickens. J. M. Chestnut & Sons, Denison, Kan.

HOLSTEIN COWS AND HEIFERS. For quick sale—car grade Holstein cows and heifers; ten heifer calves; ten grade Guernsey cows and heifers; four registered Holstein bulls ready for service; all tested; priced right. HENRY GLISSMAN, Sta. B, Omaha, Neb.

SUNFLOWER HERD HOLSTEINS

Oskaloosa, Kan. Watch this space for the best thing in Holsteins. F. J. SEARLE, Prop., Oskaloosa, Kansas.

Segrist & Stephenson, breeders of registered working high testing Holsteins. Choice young bulls out of record cows for sale. Farm adjoins town. Holton, Kansas.

SHADY GROVE HERD. Four choice bred young bulls from high record dams. Also 3-year-old herd bull. Inspection invited. G. F. MITCHELL, Holton, Kan.

CHOICE HOLSTEIN COWS. Well bred cows, two-year-old heifers and 25 choice heifer calves, all good colors. Prices reasonable. GEO. F. DERBY, Lawrence, Kansas.

Choice Young Bulls from record cows. Herd headed by son of Buffalo Aggie Beets, world's second greatest 3-year-old. David Coleman & Sons, Denison, Kan.

TIME to buy your Holstein bull is when he is a calf. CARL SNYDER, Route 7, Topeka, Kansas, has a good one.

HOLSTEINS FOR SALE. High-grade cows and springing heifers, also registered bulls ready to use. Exceptionally good breeding. Write Springdale Stock Ranch, Concordia, Kansas.

Butter Bred Holsteins

For Sale—A herd bull, also choice bull calves. Prices very reasonable. Write today. These bargains will not last long. J. P. MAST, Scranton, Kan.

GOLDEN BELT HOLSTEIN HERD. Prince Hadria at head of herd. He has 26 A. R. O. sisters, 21 brothers and several daughters. Extra choice young bulls for sale out of 600-pound A. R. O. dams. Farm near town. W. E. BENTLEY, Manhattan, Kansas.

SIXTY HEAD of registered and high-grade Holstein cows and heifers, also a few registered bull calves. HIGGINBOTHAM BROS., Rossville, Kansas.

HOLSTEIN BULL CALVES always on hand and worth the price. H. B. COWLES, Topeka, Kansas.

CHOICE YOUNG HOLSTEIN BULLS. Backed by Records. Priced to Sell. JOHN RENSINK, Boyden, Iowa.

When writing advertisers, please mention KANSAS FARMER.

DUROC JERSEYS

TATARRAX HERD DUROCS

Two hundred spring gilts, in lots to suit customer, from one to a carload. Also choice boars. Entire spring crop immunized. Pigs by Tatarrax, G. M.'s Tat Col. and Kansas Col. by Cherry Col. and Tippy Col. Come and see our herd. BUSKIRK & NEWTON, Newton, Kansas.

FANCY DUROC BOARS AND GILTS. Fall boars by Smith's Graduate by J. R.'s Col. by Graduate Col., out of best sows. Choice lot of gilts by J. R.'s Col. bred for June litters to Gold Medal. Priced for quick sale. J. R. SMITH, Newton, Kansas.

Choice Durocs All Ages

Duroc spring boars and gilts, fall gilts, yearling sows to farrow in September and October. A choice offering priced reasonable. ENOCH LUNDGREN, Osage City, Kansas.

Crystal Springs Duroc Jerseys. The Big Prolific Kind. Boars by Bull Moose Col. by King the Col. From big, well bred sows. Write for descriptions and prices. Arthur A. Patterson, Ellsworth, Kansas.

GOLDEN RULE DUROC JERSEYS. Twenty spring boars, tops of entire crop. Sired by Dreamland Col. and River Bend Col., out of big mature sows. Priced to sell. LEON CARTER, Asherville, Kan.

DUROC JERSEY BOAR PIGS—Right in breeding and individuality. Write for prices and descriptions. W. J. HARRISON, Axtell, Kansas.

MARSH CREEK DUROCS—Boars for the farmer and stockman. Immuned, best of breeding, good individuals. Write for descriptions and price. R. P. WELLS, Formoso, Kan.

GOOD ENUFF AGAIN KING. The grand champion of Kansas, 1913. Crimson Wonder 4th, a second prize boar. We have a number of herd boars for sale reasonably. W. W. OTEY & SON, Winfield, Kansas.

JACKSON COUNTY BREEDERS' ASSOCIATION

A whole community banded together to boost for more and better live stock.

WATCH FOR THE SIGN OF MEMBERSHIP

Every member advertising uses it.

Annual stock show in Holton, Sept. 30-Oct. 2. Correspondence invited. Bruce Saunders, Pres., Holton, Kan. Devere Rafter, Sec'y, Holton, Kan.



HORSES AND MULES

It is a big saving for you to buy at this time of year a growthy young stud from my big bunch registered Percherons, 1, 2, 3 and 4 years old. Uncommonly large bone and in pasture condition are developing to immense size like their imported sires and dams. Farm raised and farm priced. Fast direct trains from Kansas City and St. Joseph. FRED CHANDLER, ROUTE 7, CHARITON, IOWA.



HORSES AND MULES.

JACKS AND JENNETS

20 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned, broken to mares and prompt servers. A few good jennets for sale. Come and see me. PHIL WALKER, Moline, Elk Co., Kansas.

Black REGISTERED Jack

For Sale. 15% hands high, six years old, a good breeder. Also Duroc Jersey hogs. LOUIS KOENIG, Solomon, Kansas.

M. H. ROLLER & SON. Circleville, Kan. Fourteen big Jacks, 25 jennets. One imported Percheron, one high-grade Belgian stallion.

PERCHERONS FOR SALE. Write for prices and descriptions. JAS. C. HILL, Holton, Kansas.

JERSEY CATTLE

GLENWELLS FARM

GRANDVIEW, MO. Western Home of RALEIGHS & EMINENTS. Bull Calves, \$35.00 and up, and some Bred Females.

GREEN HILL JERSEY FARM

For Sale—Several young bulls up to 15 months old, sired by Viola's Majesty. Dams American and imported cows of choice breeding and individuality. D. LEE SHAWHAN, Lees Summit, Mo.

ALPHA DELL FARM JERSEYS. Headed by grandson of Golden Fern's Lad out of line-bred Sophie Tormentor dam. Stock for sale at close prices. F. J. SCHERMAN, Route 8, Topeka, Kansas.

MAPLE LAWN DAIRY FARM. Fountain's Valentine heads herd. Unregistered cows for sale. W. R. LINTON, Denison, Kansas.

SUNFLOWER JERSEYS, headed by Imp. "Castor's Splendid," mated with real working cows. Choice young bulls of serviceable age. H. F. ERDLEY, Holton, Kansas.

TWO JANUARY BULL CALVES. Out of high producing dams; Flying Fox and Golden Fern's Lad breeding; for sale at very low prices. D. A. KRAMER, Washington, Kan.

BULL CALVES by grandson of famous Oxford Lad and son of Diploma's Fair Maiden, 11,400 lbs. milk, 9 mos. Also females. J. B. Porter & Son, Mayetta, Kan.

A FEW CHOICE SONS AND DAUGHTERS OF FINANCIAL COUNTESS LAD and other noted bulls; young cows will milk FORTY to SIXTY POUNDS per day, out of richly bred large producing dams. Priced reasonably. Must reduce herd. W. N. BANKS, Independence, Kansas.

FAIRVIEW JERSEYS. Performance is prime requisite in this herd. Best of breeding. Write for prices and descriptions. R. A. GILLILAND, Mayetta, Kan.

REGISTERED JERSEYS. Butter-bred bull calves from heavy producing cows, priced right. MAXWELL JERSEY DAIRY, Topeka, Kan.

ANGUS CATTLE

"BLACK DUSTER" heads our herd of richly bred cows. Choice cows with calves at foot and re-bred. Also young bulls. Berkshires. GEORGE McADAM, Holton, Kan.

GUERNSEY CATTLE



BUY GUERNSEYS FOR PROFIT

Quantity and Quality combined with economical production makes The GUERNSEY Cow most desirable. Send for literature. Guernsey Cattle Club, Box K. F., Peterboro, N. H.

CHOICE YEARLING BULL FOR SALE. Also registered bull calves. Write for prices. R. C. KRUEGER, Burlington, Kan.

FOR SALE—Five registered Guernsey bulls. Phil R. Toll, 430 Midland Building, Kansas City, Mo.

POLLED DURHAM CATTLE

FOR SALE. Herd headed by Roan Choice and Matchless Avon. Young stock, both sexes, for sale. Prices reasonable. Come and see my herd. C. J. WOODS, CHILES, KANSAS.

RED POLLED CATTLE

RED POLLED CATTLE. A few choice bulls, ready for service, priced reasonable. I. W. FOULTON, Medora, Kan.

RED POLLED CATTLE

For Sale—A choice lot of cows, bulls and heifers, all registered, with good quality. AULD BROS., Frankfort, Kansas.

COBURN HERD RED POLLED CATTLE AND PERCHERON HORSES. Twelve extra good young bulls. Some extra fine young stallions, among them first prize and champion of Topeka Fair. Also young cows and heifers. GROENMILLER & SON, Pomona, Kansas.

RILEY COUNTY BREEDING FARM. Red Polled headed by the last son of Crema Bulls all sold. Percherons headed by son of Casino. Visit herd. ED NICKELSON, Leonardville, Kan.

HOLSTEIN CATTLE

ADVANCED REGISTRY HOLSTEINS. Forty-two cows and heifers in herd average over 20 pounds A. R. O. Young bulls for sale and a few cows and heifers. We have been breeders for 30 years. Correspondence and inspection invited. MCKAY BROTHERS, Waterloo, Iowa.

CORYDALE FARM HOLSTEINS. Headed by Jewel Paul Butter Boy, Reg. No. 94245. Five choice registered bulls, ages 4 to 9 months, from large richly bred cows with strong A. R. O. backing. Nicely marked. Splendid dairy type. Reasonable prices. L. F. CORY, Belleville, Kan.

CHENANGO VALLEY HOLSTEINS. For quick sale, 100 head high-grade nicely marked cows and heifers, due to freshen in September and October; also fifty fancy marked yearlings, all tuberculin tested. Prices reasonable. F. J. Howard, Bouckville, Madison Co., N. Y.

# AUCTION SALE OF ENTIRE HERD OF HOLSTEIN FRIESIANS

Great Bend, Kansas, Tuesday, September 22, 1914

**75 Head** BULLS, COWS AND HEIFERS **75 Head**

16 Registered Animals, 59 High Grade Cows and Heifers

7-8 to 15-16 PURE

The Best Families Represented. Tuberculin Tested, State Inspected

Of course you are going to the State Fair, September 12 to 19. Arrange to leave the Fair one day and visit this herd, select the animals you want, and if you can't come to the sale, mail your bids to F. W. Brinkman, Clerk of Sale.

This herd is headed by Sir Mechthilde Dieuwertji 45426, one of the most prepotent bulls in the county. He will have four daughters in this sale that averaged 10,000 pounds milk in one year with first calves; these are grades. He is backed by Segis Pontiac Perfection 68500, whose dam has an A. R. O. record of 22.52 pounds butter fat in seven days. We offer Woodcroft Hartog 70421 and Sir Fayne Mooie 124371, whose dam, Fanny Belle Mooie 95368, has an A. R. O. record of 24.52 pounds butter fat made as a three-year-old.

Such cows as Viola Ormsby Mercedes DeKol Aaggie 147728, Royal Maud DeKol Aaggie 75413, Lady Veman Jane 162063, Ida DeKol Aaggie 66943, and sons and daughters of these great animals are offered.

## No Illinois Cattle Here

We offer our grade herd of 59 strictly high-grade cows and heifers from yearlings to eight years of age. There is no better grade herd in the Middle West. Large, well-marked, sound in every respect, and every one a heavy milker—no outlaws.

Automobile hacks will meet all trains. Lunch on the ground. Catalogues mailed on request.

AUCTIONEERS, SNYDER & BALES.

F. W. BRINKMAN, CLERK.

A. T. & S. F. and Missouri Pacific Railroads. One and one-half miles north and one mile west of Court House.

**W. G. Merritt & Sons, Owners, Great Bend, Kansas**

## GRAFF'S FIRST ANNUAL MULEFOOT HOG SALE

At Rosendale, Mo., Thursday, October 1, 1914.

Sixty Head of March and April Boars and Gilts. Seven Yearling Boars.  
Ten Head of Tried Sows bred to farrow in December and January.

This offering is sired by the famous herd boar, Dodger Chief, and out of champion dams. Dodger Chief will sell on day of sale. Send name for catalog at once.

ERNEST E. GRAFF --:-- ROSENDALE, MISSOURI

### POLAND CHINAS

#### BIG-BONED SPOTTED POLANDS.

Seventy-five splendid old original big-boned Spotted Poland China Spring Pigs to offer; single pigs, pairs or trios; 20 gilts bred for August and September farrow. Write your wants before buying elsewhere. I will save you money. Satisfaction guaranteed. Also Jersey bulls and bred heifers.

THE ENNIS FARM, Herline Station, Mo. (Just South of St. Louis.)

Pioneer Herd Big-Type Poland Chinas. Choice lot of sows and gilts for sale, bred for summer and fall litters to the three times grand champion boar, Smuggler S58913, A173859, and Logan Price. Booking orders for spring pigs in pairs or trios. Prices reasonable.

OLIVIER & SONS, Danville, Kansas.

### BEN FRANK'S POLANDS

One hundred Poland China spring pigs, the big type or the big medium type. I have the hogs and prices to please you.

BEN FRANK, Route 3, Jefferson City, Mo.

#### LYNN GROVE SPOTTED POLANDS.

Choice fall boars and open fall gilts. We have Spotted Boy, Cainsville Boy, Billy Sunday, Lucky Judge, Brandywine, Clipper, Good Enough, Budweiser, Lineville Chief and Clipper breeding.

J. O. RILEY & SON, Cainsville, Mo.

#### BIG-TYPE HERD HEADERS.

Thirty head big-type Poland spring boars by noted sires. Thousand-pound herd header prospects out of big roomy sows sired by Missouri Jumbo, 590 pounds at 16 months, in breeding form. Prices right.

HENRY KOCH, Edina, Mo.

### WEDD & SONS, BARGAINS

Twenty choice big-type Poland China spring boars at prices that will move them. Also a few spring gilts. Everything guaranteed as represented.

GEO. WEDD & SONS, Spring Hill, Kansas.

#### PAN LOOK HEADS HERD.

Biggest possible big-type breeding. Fall boars and gilts sired by him for sale. Be your own judge. Out of Expansion bred dams.

JAS. ARKELL, Junction City, Kan.



SPRING PIGS by Major Jim, Blue Valley Buster, A Jumbo Wonder, out of Gold Metal, Major Jim, Model Look, Big Bone Pete and Whats Ex sows. O. B. Clemetson, Holton, Kan.

#### ROY JOHNSTON'S POLAND CHINAS.

Early spring gilts. Pigs of March and April farrow. Boars of serviceable age. The quality herd of strictly big-type breeding. Priced reasonable.

ROY JOHNSTON, South Mound, Kansas.

### FRAZIER'S BIG POLANDS

Fifty choice fall boars for farmers and breeders. Will not hold a fall sale. Will offer my best spring boars and a few gilts at very reasonable prices. Can furnish pairs or trios. Herd boars, Frazier's A. Wonder and Expansion Hadley. Come and see me.

E. D. FRAZIER, Drexel, Missouri.



DODSON'S BIG SMOOTH KIND. Herd boars Sunny Colossus, Orange Chief, mated to sows with size and quality. Bred sows and spring pigs. Prices right. Description guaranteed.

WALTER DODSON, Denison, Kan.

#### WONDER POLAND CHINA HERD

Headed by Model Wonder, assisted by a son of Blue Valley. Mated to as big sows as can be found. We offer spring gilts by first named boar and bred to the other one at reasonable prices.

O. R. STRAUSS, Milford, Kan.

### A ORANGE AGAIN

Heads our Poland Chinas. Choice big fall boars, also 30 spring boars. Prices right.

HUBERT J. GRIFFITHS, Clay Center, Kan.

### CLOVER LEAF HERD POLANDS

Choice spring boars by Blue Valley, Sparks' Giant, and Good Enough. Big bone, big type, high quality boars at a low price. Write for prices and description.

JACOB SPARKS, Pattonsburg, Mo.

### Poland Chinas That Please

Fall and spring boars fit to head herds. Sows of all ages, open or will breed. Prices reasonable. Write us your wants.

P. L. WARE & SON, Paola, Kansas.



COLEMAN'S BIG SMOOTH POLANDS. 150 in herd. Herd boars O. K. Lad, Hadley C. Expansion, Price We Know, Mastodon and Mogul sows. Herd has tops from many sales. Choice boar pigs, also Jersey cattle.

JOHN COLEMAN, Denison, Kansas.

### Faulkner's Famous Spotted Poland

We are not the originator, but the preserver,

of the Old Original Big-Boned Spotted Poland.

Write your wants. Address H. L. FAULKNER, Box K, Jamesport, Mo.

#### POLAND CHINA BOARS.

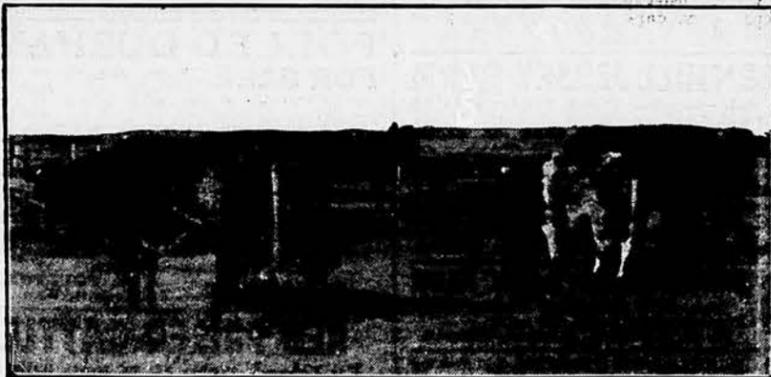
For Sale—Four extra good fall yearling boars sired by D. Wonder by B. Wonder by Blain's Wonder and out of our best sows. They have size and quality and are priced right. First order gets choice. Write us.

SULLIVAN BEUS, Moran, Kansas.

## SHORTHORN CATTLE SALE

—AT—

Girard, Kansas, Tuesday, September 22, 1914



40--Breeding Cows and Heifers--40

10--Young Bulls of Breeding Age--10

The cows and heifers are bred to the great Scotch herd bull, ORANGE MAJOR, by Orange Viscount (twice an American Royal winner), by Lavender Viscount. ORANGE MAJOR is also a half brother to the great Orange Model bull used by W. A. Bettridge at Pilot Grove, Mo. ORANGE MAJOR is one of the low-down thick-fleshed block-type bulls and has produced a splendid lot of calves. A few of the heifers will be bred to Ingle Lad Jr. by Ingle Lad. They are a good, useful lot of breeding cows and heifers. Catalogs are ready to mail out. Send for one, and come to our sale, September 22, 1914.

Sale at farm near Girard, Kan. Auctioneer, J. W. Sparks.

**ADAM ANDREW,  
FRED COWLEY,**

**Girard, Kansas  
Hallowell, Kansas**

ADVERTISEMENT. OFFICIAL KANSAS GRADES.

Under provisions of Chapter No. 222, Laws of 1907, the Grain Grading Commission appointed under said act met pursuant to published call at the governor's office in Topeka, Kansas, on the 15th day of June, 1914, and established the following grades of grain, to be known as Kansas Grades, to be in effect on and after the first day of August, 1914.

Wheat which has been subjected to "scouring," or to some process equivalent thereto, or containing an objectionable amount of rye, shall not be graded higher than No. 3.

Wheat containing live weevil shall not be graded, but the inspector shall give the type of wheat and test weight and note "Live Weevil."

Inspectors shall in no case make the grade of grain above that of the poorest quality found in any lot of grain inspected, where it has evidently been "plugged" or otherwise improperly loaded for the purpose of deception.

All inspectors shall make their reasons for grading below No. 2 fully known by notation on their reports. The weight alone shall not determine the grade.

The word "New" shall be inserted in each certificate of inspection of newly harvested wheat until August 1st of each year.

All orders for reinspection must be in the office within the first forty-eight hours following the original inspection, and in no case will grain be reinspected after a lapse of three days from the date of the original inspection.

All claims of damages against the inspectors or weighmasters must be filed in the office before the grain has left jurisdiction of this department.

In case of an appreciable mixture of hard and soft wheat, red and white wheat, durum and spring wheat, with each other, it shall be graded according to quality thereof and the kind of wheat predominating, shall be classed No. 1, 2, 3 and 4 Mixed Wheat, and the inspector shall make notation describing its character.

All oats or barley that has been chemically treated with sulphur shall be classed as "Sulphured Grain," and inspectors shall note same on certificates of inspection.

These official Kansas Grades are given us by the Grain Grading Commission, and will be the basis of all inspections made. Misunderstandings can be avoided by interested parties making themselves familiar with these rules.

No. 1 Kansas Turkey hard winter wheat of the long berry, dark amber colored type of the Turkey varieties, shall be sound, sweet, dry and clean, and shall contain not more than 5 per cent of yellow, hard, and weigh not less than sixty-one pounds to the bushel.

No. 2 Kansas Turkey hard winter wheat of the long berry, dark amber colored type of the Turkey varieties, shall be sound, sweet, dry, and well cleaned, and shall contain not more than 5 per cent yellow hard and weigh not less than fifty-nine pounds to the bushel.

No. 3 Kansas Turkey hard winter wheat of the long berry, dark amber colored type of the Turkey varieties, shall be sound, sweet, dry and clean, and shall contain not more than 5 per cent yellow hard and weigh not less than fifty-six pounds to the bushel.

No. 1 Dark Hard.—Shall be hard winter wheat of the dark type, sound, sweet, dry, plump and clean, and may contain not more than 10 per cent yellow hard, and shall weigh not less than sixty-one pounds to the bushel.

No. 2 Dark Hard.—Shall be hard winter wheat of the dark type, sound, sweet, dry and all cleaned, and may contain not more than 10 per cent yellow hard, and shall weigh not less than fifty-nine pounds to the bushel.

No. 3 Dark Hard.—Shall be hard winter wheat of the dark type, sound, sweet, dry; but not clean enough for No. 2, and shall contain not more than 10 per cent yellow hard, and shall weigh not less than fifty-six pounds to the bushel.

No. 4 Dark Hard.—Shall be hard winter wheat of the dark type, tough, sprouted or from other causes so badly damaged as to render it unfit for No. 3, and shall contain not more than 10 per cent yellow hard.

Rules Governing Dark and Yellow Hard Wheat. Dark hard wheat and yellow hard wheat mixed more than 10 per cent shall grade the wheat predominating—dark and yellow, or yellow and dark—and inspection certificates issued accordingly; and the other specifications for each of these grades shall be the same as for Kansas hard winter wheat of the same grade.

No. 1 Yellow Hard.—Shall be hard winter wheat of the yellow type, sound, sweet, dry, plump and clean, and shall weigh not less than sixty-one pounds to the bushel.

No. 2 Yellow Hard.—Shall be hard winter wheat of the yellow type, sound, sweet, dry and well cleaned, and shall weigh not less than fifty-nine pounds to the bushel.

No. 3 Yellow Hard.—Shall be hard winter wheat of the yellow type, sound, sweet, dry; but not clean enough for No. 2, and shall weigh not less than fifty-six pounds to the bushel.

No. 4 Yellow Hard.—Shall be hard winter wheat of the yellow type, tough, sprouted, or from any cause so badly damaged as to render it unfit for No. 3 Hard.

No. 1 Red Winter.—Shall be red winter wheat, sound, sweet, dry, plump and clean, and shall weigh not less than sixty pounds to the bushel.

No. 2 Red Winter.—Shall be sound, sweet, dry, and well cleaned, may contain not

more than 8 per cent of hard winter or white winter wheat, or both, and weigh not less than fifty-eight pounds to the bushel. No. 3 Red Winter.—Shall be sound, sweet, dry, may be some bleached, but not clean enough for No. 2, may contain not more than 8 per cent of hard winter or white winter wheat, or both, and shall weigh not less than fifty-five pounds to the bushel.

No. 4 Red Winter.—May be tough, skin-burned or dirty, may contain not more than 8 per cent of hard winter or white winter wheat, or both, must be cool, and shall weigh not less than fifty pounds to the bushel.

No. 1 White Winter Wheat.—Shall be sound, sweet, dry, plump and clean, and shall weigh not less than fifty-eight pounds to the bushel.

No. 2 White Winter Wheat.—Shall be sound, sweet, dry and clean, and not contain more than 8 per cent of red winter or hard winter wheat, and shall weigh not less than fifty-six pounds to the bushel.

No. 3 White Winter Wheat.—Shall be sound, sweet, dry, may be some bleached, but not clean or plump enough for No. 2, and contain not more than 10 per cent of red winter or hard winter wheat, and shall weigh not less than fifty-three pounds to the bushel.

No. 4 White Winter Wheat.—Shall include tough, musty, dirty white winter wheat, not to contain more than 10 per cent of red winter or hard winter wheat, and shall weigh not less than fifty pounds to the bushel.

No. 1 Northern Hard Spring Wheat.—Must be northern grown spring wheat, sound, sweet, dry and clean, more than 50 per cent of the hard varieties, and weigh not less than fifty-seven pounds to the bushel.

No. 2 Northern Hard Spring.—Must be northern grown spring wheat, not clean, sweet or sound enough for No. 1, more than 50 per cent of the hard varieties, and weigh not less than fifty-six pounds to the bushel.

No. 3 Northern Hard Spring.—Must be northern grown spring wheat of inferior quality, more than 50 per cent of the hard varieties, and weigh not less than fifty-four pounds to the bushel.

No. 4 Northern Hard Spring.—Shall include all inferior, shrunken, northern grown spring wheat that is badly damaged, more than 50 per cent of the hard varieties, and weigh not less than forty-nine pounds to the bushel.

No. 1 Dark Spring.—Shall be spring wheat of the dark variety, sound, sweet, dry, plump and clean, and shall weigh not less than fifty-nine pounds to the bushel.

No. 2 Dark Spring.—Shall be spring wheat of the dark variety, sound, sweet, dry, clean and of good milling quality, and shall weigh not less than fifty-seven pounds to the bushel.

No. 3 Dark Spring.—Shall be spring wheat of the dark variety, sweet, but may be some bleached and shrunken, and shall weigh less than fifty-five pounds to the bushel.

No. 4 Dark Spring.—Shall include spring wheat of the dark variety, tough, musty, sprouted, or that which from any cause is rendered unfit for No. 3, and shall weigh not less than fifty pounds to the bushel.

No. 1 Durum.—Shall be bright, sound, sweet, dry and clean durum wheat, and shall weigh not less than sixty pounds to the bushel.

No. 2 Durum.—Shall be sound, sweet, dry and clean durum wheat, and shall weigh not less than fifty-eight pounds to the bushel.

No. 3 Durum.—Shall be dry, sweet, may be some bleached, or from any cause unfit for No. 2, and shall weigh not less than fifty-five pounds to the bushel.

No. 4 Durum.—Shall include durum wheat that is tough, bleached, or shrunken, and shall weigh not less than fifty pounds to the bushel.

No. 2 Pacific Coast Wheat.—Shall be dry, sound, clean, may be tainted with smut and alkali, and weigh not less than fifty-eight pounds to the bushel.

No. 3 Pacific Coast Wheat.—Shall include all other Pacific Coast wheat, may be smutty or musty, or for any reason unfit for flouring purposes, and weigh not less than fifty-four pounds to the bushel.

No. 1 Rye.—Shall be plump, sound, dry and free from other grain, and well cleaned, and shall weigh fifty-six pounds per bushel.

No. 2 Rye.—Shall be plump, sound and clean, and shall weigh fifty-four pounds per bushel.

No. 3 Rye.—May be shrunken, bleached, or not clean enough for No. 2, and shall weigh not less than fifty-two pounds per bushel.

No. 4 Rye.—To include all tough, musty, dirty rye, unfit for No. 3, and shall weigh not less than fifty pounds per bushel.

No. 1 White Oats.—Shall be pure white oats, dry, sweet, sound, clean and free from other grain and weigh not less than thirty-two pounds per bushel.

No. 2 White Oats.—Shall be seven-eighths white, sound, dry, and contain not more than 1 per cent each of dirt or foreign matter, or 3 per cent of other grain, and weigh not less than thirty pounds per bushel.

No. 3 White Oats.—Shall be seven-eighths white, sound, dry, and not more than 3 per cent of dirt or foreign matter nor 5 per cent of other grain.

No. 4 White Oats.—Shall be seven-eighths white tough, musty, or from any cause unfit for No. 3.

No. 1 Mixed Oats.—Shall be mixed oats of various colors, dry, sound, sweet, clean, and free from other grain, and weigh not less than thirty-two pounds per bushel.

No. 2 Mixed Oats.—Shall be mixed oats of various colors, dry, sound, sweet, and not more than 2 per cent of dirt or foreign matter or 3 per cent of other grain, and weigh twenty-eight pounds per bushel.

No. 3 Mixed Oats.—Shall be mixed oats of various colors, sweet, and shall not contain more than 3 per cent of dirt or foreign matter or 5 per cent of other grain, and weigh twenty-four pounds per bushel.

SHORTHORN CATTLE

175 HEAD OF SHORTHORNS

Consisting of many choice animals carrying the blood of noted sires. Foundation stock purchased from the best breeders. Fifty head must sell in sixty days. Start in the Shorthorn business. All kinds of Shorthorn breeding stock from which to select—cows, heifers and bulls, cows with calf at side, others due to calve soon, grandsons and daughters of such sires as Avondale, Prince Oederic and other noted sires. Write, wire or phone me when to meet you at Peabody, either Rock Island or Santa Fe depot.

LOOKABAUGH'S SHORTHORNS

250 HEAD IN HERD. Scotch Herd Bulls—Avondale type and blood. Scotch Heifers—Not related—the kind to start with and start right. Milking Shorthorn Cows—The farm cow—fresh now. Rugged Young Farmer Bulls and Heifers—Good bone and size—one to a carload, either sex, \$75 to \$150 per head. Two Heifers and a Bull—Not related—\$250 for the three. H. C. LOOKABAUGH, WATONGA, OKLA.



RIVERSIDE SHORTHORNS. Am offering ten head of nicely-bred females, reds and roans. Clipper Model 386430 and King Clipper 393421 at head of herd. H. H. HOLMES, Great Bend, Kansas.

A BARGAIN IN SHORTHORNS. Registered cows with calves at side and rebred; also heifers and young bulls. Priced right. Come and see them, or address, W. E. HOGAN, Madison, Kansas.

TENNEHOLM SHORTHORNS. Two good young bulls; one 18 months, the other 13 months old; both red; wish to dispose of them soon. Prices reduced to \$90 and \$80. E. S. MYERS, Chanute, Kansas.

OXFORD HERD SHORTHORN CATTLE. For Sale—Young bulls and females at farmers' prices, for dual purpose cattle. Come and see me. Farm on Strang line near Overland Park. DE. W. C. HARVEY, Lenexa, Kansas.

OAK GROVE SHORTHORNS. Every cow straight Scotch. Herd bull, White Starlight by Searchlight; Choice Goods, dam. ROBT. SCHULZ, Holton, Kan.

HEREFORD CATTLE. HEREFORD COWS, 3 to 7 years. Bull calves, a bargain. Durocs, both sexes. Black registered Percheron yearling stallion, weight 1,300. M. E. GIDEON, Emmett, Kansas.

OHIO IMPROVED CHESTERS. MAPLE LEAF O.I.C.'s. We are offering two fine fall boars, a few good gilts, spring pigs sired by our grand champion boar, Don Ben 2d 3181; can please you in both quality and price. R. W. GAGE, Mount Ida, Kansas.

FROST'S O.I.C.'s. The herd with a record for producing prize winners. Choice breeding stock, both sexes. Priced to sell quick. S. D. & B. H. FROST, Kingston, Mo. WALKER'S O. I. C. HOGS. Write for prices. G. A. WALKER, Bogard, Missouri.

HAMPSHIRE HOGS. Hillwood Hampshires. The prize winning herd—13 big, high-class fall boars—14 big, high-quality fall gilts—130 choice spring pigs. All sired by our great herd boars, out of big, high-class dams. All immunized. Satisfaction guaranteed. Write for prices and pedigrees. Both are right. J. Q. EDWARDS, Smithville, Mo.

ECLIPSE FARM HAMPSHIRE HOGS. Bred sows, spring and summer pigs for sale. A. M. BEAR, Medora, Kansas.

Attractive prices for a few choice bred sows and bred gilts bred for September and October litters. 200 spring pigs, pairs or trios, reasonable. F. C. WITTOFF, Medora, Kansas.

Registered Hampshire Hogs for Sale. Tried sows and gilts of very best breeding and individuality, bred for fall farrow. Prices right. WM. INGE & COMPANY, Independence, Kansas.

BRED Gilts, serviceable boars, January and February pigs. Best breeding, well marked. Singly, pairs and trios. Satisfaction guaranteed. Prices reasonable. S. E. SMITH, Route 3, Box 18, Lyons, Kan.

HAMPSHIRE HOGS. All ages. Best families. Champion bred stock. Most profitable and most popular breed. Write your wants. GEO. MOSHER, 3612 Locust St. Kansas City, Mo. When writing advertisers, please mention KANSAS FARMER.

good color, and weigh forty-six pounds per bushel. No. 3 Barley.—Shall include shrunken, stained, dry barley, unfit to grade No. 2, and weigh forty-four pounds per bushel. No. 4 Barley.—Shall include tough, musty, dirty barley. SPELTZ. No. 1 Speltz.—Shall be bright, sound, dry and free from other grain. No. 2 Speltz.—Shall be sound and dry, and not contain more than 10 per cent of other grain. No. 3 Speltz.—Shall be dry, not sound enough for No. 2, and contain not more than 10 per cent of other grain. No. 4 Speltz.—To include all speltz that is dirty, musty or tough.

The tentative grades for commercial corn formulated by the U. S. Department of Agriculture and adopted by the Kansas Grain Grading Commission follow:

Table with 4 columns: Grade Classification, Maximum Percentage of Moisture, Maximum Percentage of Damaged Corn, and Maximum Percentage of Heat Damaged Corn. Rows include No. 1, 2, 3, 4 for Yellow and Mixed Corn, and No. 1, 2, 3, 4 for White Corn.

GENERAL RULES. 1. The corn in Grades No. 1 to No. 5 inclusive must be sweet. 2. White corn, all grades, shall be at least 98 per cent white. 3. Yellow corn, all grades, shall be at least 95 per cent yellow. 4. Mixed corn, all grades, shall include corn of various colors not coming within the limits for color, as provided for under white or yellow corn. 5. In addition to the limits indicated, No. 6 corn may be musty, sour, and may also include corn of inferior quality, such as immature or badly blistered. 6. All corn that does not meet the requirements of either of the six numerical grades, by reason of an excessive percentage of moisture, damaged kernels, foreign matter or badly broken corn, or corn that is hot, heat damaged, fire burnt, infested with live weevil, or otherwise of distinctly low quality, shall be classed as sample grade. 7. In No. 6 and sample grade, reasons for so grading shall be stated on the inspector's ticket or certificate. 8. Finely broken corn shall include all broken particles of corn that will pass through an 8 x 8 wire sieve, the diameter of the wire to be twenty-five thousandths of an inch. 9. Badly broken or "cracked" corn shall include all broken pieces of kernels that will pass through a 4 x 4 mesh wire sieve, the diameter of the wire to be thirty-six thousandths of an inch, except that the finely broken corn as provided for under Rule 8 shall not be considered as badly broken or "cracked" corn. 10. It is understood that the damaged corn; the foreign material, including cob, dirt, finely broken corn, other grains, etc., and the badly broken or "cracked" corn, as provided for under the various grades, shall be such as occur naturally in corn when handled under good commercial conditions. 11. Moisture percentages, as provided for in these grade specifications, shall conform to results obtained by the standard method and tester as described in Circular 72, Bureau of Plant Industry, U. S. Department of Agriculture.

KAFFIR CORN. No. 1 White Kafir Corn.—Shall be pure white, of choice quality, sound, dry and well cleaned. No. 2 White Kafir Corn.—Shall be seven-eighths white, sound, dry and clean. No. 3 White Kafir Corn.—Shall be seven-eighths white, not dry or clean or sound enough for No. 2. No. 4 White Kafir Corn.—Shall be seven-eighths white, tough, damaged, musty or dirty.

RED KAFFIR CORN. The grades of Nos. 1, 2, 3 and 4 Red Kafir Corn shall correspond with grades Nos. 1, 2, 3 and 4 White Kafir Corn, except that they shall be of the red variety.

MIXED KAFFIR CORN. No. 1 Mixed Kafir Corn.—Shall be mixed kaffir corn of choice quality, sound, dry and well cleaned. No. 2 Mixed Kafir Corn.—Shall be mixed kaffir corn, sound, dry and clean. No. 3 Mixed Kafir Corn.—Shall be mixed kaffir corn, not clean, dry or sound enough for No. 2. No. 4 Mixed Kafir Corn.—Shall be mixed kaffir corn, tough, musty or dirty.

MILLO MAIZE. No. 1 Millo Maize.—Shall be millo maize of choice quality, sound, dry, and well cleaned. No. 2 Millo Maize.—Shall be millo maize that is sound, dry and clean. No. 3 Millo Maize.—Shall be millo maize that is not dry or sound enough for No. 2. No. 4 Millo Maize.—Shall include all millo maize that is tough, musty or dirty.

SORGHUM SEED. Sorghum seed to be under the same general rule as kaffir. The foregoing are the rules adopted by the Kansas State Grain Inspection Department establishing a proper number and standard of grades for the inspection of grain. The same to take effect on and after August 1, 1914, in lieu of all rules on the same subject heretofore existing.

GEO. B. ROSS, Chief Inspector, Topeka, Kansas.

# THE WORLD'S GREATEST AGRICULTURAL EVENT

—FOR 1914—

Of all the gatherings held this year in behalf of agriculture, whether congresses, conventions, conferences, expositions, or fairs, there is one which stands out clearly and distinctly as the premier. It is the

**International Dry-Farming Congress---October 12-15**

**International Congress of Farm Women---October 12-15**

**International Soil-Products Exposition---October 7-17**

**Fourth Annual Wichita Fair and Exposition---October 7-17**

**Wichita  
Kansas**

These four events, grouped into one, make, in the aggregate, the most conspicuous and significant showing in the name of agriculture that there is anywhere in the world during the present year; to say nothing about its notable place in Kansas and the Southwest. It is given to Kansas this year to have the proud distinction of being the host at such a gathering—and every citizen in Kansas should feel a personal pride.

**WORLD AUTHORITY ON AGRICULTURE  
IN THE CONGRESS SESSIONS**

**WORLD SHOWING IN PRODUCTS  
AT THE EXPOSITIONS**

**Combined with These are the Industries and Commerce in the Wichita Fair**

**NOTE THE SIGNIFICANT POINTS:**

Representatives from the United States Department of Agriculture, the Agricultural Colleges, the Experiment Stations, and among businessmen and practical farmers at the Congress sessions.

Representation from seven foreign countries, from the United States Government, from ten Western states and three Canadian provinces, and great railroads and hundreds of individuals in the Exposition competition.

Eight great buildings devoted to Exposition purposes, within two blocks walk from the business center of Wichita.

Amusements and Entertainment along with the instruction and education. The great Kilties Band of Canada, 60 pieces; high class vaudeville entertainment by national celebrities free, two hours each afternoon and evening on the great Forum stage; The World at Home, The Panama Canal, and other interesting productions; bands from various Kansas points.

Reduced Rates on Railroads. See Your Agent For Particulars

**Don't Forget the Dates: Wichita, October, 7-17**

**FOR FULL PARTICULARS REGARDING DIFFERENT POINTS, WRITE:**

R. H. FAXON, Wichita, Secretary International Dry-Farming Congress  
W. P. INNES, Wichita, Manager Expositions  
JOHN FERRITER, Wichita, Superintendent of Exhibits

**"The Greatest Agricultural Event That Ever Came to Kansas or the West"**