

KANSAS FARMER

For the improvement  of the Farm and Home

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THE man who wins is the man who works—who daily toils while his neighbor shirks; who bravely stands when comes distress with head held high in the crushing press.

The man of victory is he who hears the curse of envy in his ears; who travels on with head held high and passes wrecks of the failures by.

The man of worth is he who knows the feel of pain and the hurt of woes, who a lesson learns from the man who fails and a moral finds in his tearful wails.

The man who loves is he who stays in the rougher paths and stony ways; but kindly lingers now and then to help some failure to rise again.

—I. D. G.



"The Man Who Wins Is the Man Who Works"

CASE makes Best Records at Winnipeg

in 1912 Motor Contest

Wins Gold Medal for Gas Tractor

Wins Gold Medal for Steam Engine

"CASE"
THE
ONLY ENTRANT
TO WIN
GOLD MEDALS
IN BOTH
STEAM & GASOLINE
CLASSES.



These Steam Engines broke all Winnipeg Records and were awarded diplomas instead of Gold Medals, because no manufacturers dared to compete in these classes against Case.

WE have stated in the past that there could be no close competition between Case Engines and those of other makes. When Case competes, it is only against its own records. The truth of these statements is made doubly apparent by the 1912 contest; the nearest competitor in 1912 used 60% more coal per acre than Case. The best competitor's record in 1911 shows over 90% more coal used per acre than Case used in 1912. These results prove conclusively the dominance of the Case Steam Engine and the wisdom of the Case policy in continuing its progress in perfecting and refining the Steam Engine. Thus it has been proven by every possible test that the Case Steam Engines in competition and in every-day performance stand in a class by themselves. Here are shown the results of the 1910, 1911 and 1912 Winnipeg contests tabulated for easy comparison of the Steam Engines in different classes. The figures are official and speak for themselves.

Summary of Brake and Plowing Tests in 1910, 1911 and 1912 Winnipeg Contests for Steam Engines	Coal Required to Plow One Acre	Coal Required to Plow One Acre	Coal Required to Plow One Acre
At the 10 H.P. for 10 Hours	At the 10 H.P. for 10 Hours	At the 10 H.P. for 10 Hours	At the 10 H.P. for 10 Hours
Entrant No. 12-1910.....	416 lbs.	906 lbs.	147.2 lbs.
Case 75 H.P. No. 14-1910.....	359 "	746 "	120.6 "
Entrant No. 15-1910.....	362 "	832 "	149.6 "
Case 110 H.P. No. 16-1910.....	304 "	716 "	99.2 "
Entrant No. 17-1910.....	407 "	817 "	120.5 "
Entrant No. 18-1911.....	357 "	753 "	125.5 "
Case 75 H.P. No. 19-1911.....	359 "	746 "	120.6 "
Entrant No. 20-1911.....	362 "	832 "	149.6 "
Case 110 H.P. No. 21-1911.....	304 "	716 "	99.2 "
Entrant No. 22-1911.....	407 "	817 "	120.5 "
Case 75 H.P. No. 23-1912.....	359 "	746 "	120.6 "
Case 110 H.P. No. 24-1912.....	304 "	716 "	99.2 "
Case 110 H.P. No. 25-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 26-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 27-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 28-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 29-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 30-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 31-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 32-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 33-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 34-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 35-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 36-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 37-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 38-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 39-1912.....	301 "	701 "	97.5 "
Case 110 H.P. No. 40-1912.....	301 "	701 "	97.5 "

14 Steam Engines were exhibited at the Winnipeg Fairgrounds, entered by 8 manufacturers. Why weren't they entered in the contest? Because their makers knew that they would have no chance to even make a creditable showing against the Case Engines.

Send for Catalog on Case Steam Engines for all purposes.

Every Case Sale is backed by Case Service—65 Branch Houses and 10,000 Dealers in United States and Canada.

J.I. CASE THRESHING MACHINE CO. RACINE. WIS. U.S.A.
INCORPORATED



The Winnipeg Motor Contest is International, under supervision of the Canadian Government and open to all Manufacturers of Farm Power Machinery.

The remarkable performance of the Case 40 H. P. Gas Tractor at the Winnipeg contest is more evidence of the Absolute Protection afforded by the Case Policy.

It has always been the Policy of the Case Company to do their experimenting at their own expense—not at the expense of the customer. Before a machine or improvement is allowed to go on the market under the Case name, it is tried out time and again by the severest tests that can be devised—subjected to strains and conditions far more severe than will ever be encountered in actual every day use—so that when we are finally satisfied to put the name "Case" on anything, you know beyond all question of doubt that you can safely bank on everything we claim for it.

The Case Gas Tractor is the result of 20 years of experimenting in the Case Laboratories and in the Field. It is backed and guaranteed by the 70-year reputation of the Case Company as builders of Reliable Machinery. Therefore, when we placed it on the market, we knew it was "right" down to the smallest detail of its construction.

Every Case 40 Gas Tractor is an exact duplicate of the one that won the Gold Medal at Winnipeg. They are on exhibition at all our Branch Houses as well as the Case 60 H. P. Oil Tractor. Call at our nearest branch house and have them explain it to you, or if you can't do that write us at once and we will mail you complete specifications and other information of vital interest.

How can any buyer, in the face of such overwhelming evidence of the All-round Superiority of the Case Gas Tractor, figure that he is getting the worth of his money in purchasing any other?

Every Farm Power User and every one considering the purchase of a Gas Tractor either now or in the future, is vitally interested in learning about the many improvements in Gas Tractor building embodied in the Tractor that proved itself best by winning the Gold Medal at Winnipeg. It certainly wouldn't be wise to buy a Gas Tractor without at least investigating the Case.

SUBSCRIPTION PRICE

\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished upon application.

ADVERTISING RATES

30 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Last forms are closed Monday noon. Changes in advertising copy and stop orders must be received by Thursday noon the week preceding publication.



KANSAS FARMER

With which is combined FARMER'S ADVOCATE, established 1877.

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OUR GUARANTEE

KANSAS FARMER aims to publish only the advertisements of reliable persons or firms, and we guarantee our subscribers against loss due to fraudulent misrepresentation in any advertisement appearing in this issue, provided, that mention was made of KANSAS FARMER when ordering. We do not, however, undertake to settle minor claims or disputes between a subscriber and advertiser, or be responsible in cases of honest bankruptcy of advertiser after advertisement appears.



THE FARMERS' CONFERENCE.

A state-wide conference of the farmers of Kansas will be held in Hutchinson during the third week of November. It is hoped that this conference will be so well attended and will meet with such encouragement that it will justify its being held annually. This is the culmination of a movement originating with J. R. Koontz, Topeka. It is not yet known what name will be given the organization, but that is of little importance. The officers are: Edwin Taylor, potato grower, Edwardsville, Kan., president; Geo. W. Plumb, farmer and stockman, Emporia, vice-president; W. Y. Morgan, editor, Hutchinson, secretary; Scott Hopkins, banker, Topeka, treasurer. A vice-president for each congressional district will be appointed. T. A. Borman, editor of KANSAS FARMER, is chairman of the advertising committee. Program, finance and advertising committees will be appointed.

KANSAS FARMER feels that this annual farmers' conference is the biggest thing for the development of agriculture that has ever been projected in Kansas. This activity is in line with similar movements in other states. This is the day of active and earnest co-operative organization for the conservation and further development of the country's resources, particularly agricultural. Since agriculture is the source of all wealth, and since prosperity can abound and become permanent only in proportion to agricultural development, a nationwide movement, pointing to the conservation and development of the country's resources, is justified.

This conference can accomplish the things it has set out to do, but it must adopt and pursue a policy, practical to the core, and consistent with existing conditions. To accomplish results sought it is necessary that much time, energy and money be expended, and too rapid progress must not be expected. If, in five years there are apparent accomplishments, there will be due cause for congratulation. If, in the passing of twenty-five years, it is apparent that this conference has had its effect upon conditions in general, the conference will have been justified. This is intended as a pointer to those who feel deeply regarding the work and importance of this conference and who are devoting their energies to its success. For them to accomplish anything worth while means a long, persistent and consistent pull.

It is not the part of this conference to advertise and boom Kansas for the purpose of attracting immigration. Its mission is, however, to lay hold on the most favorable conditions of soil and climate with which Kansas is possessed and arouse the people of Kansas to progress and development commensurate with their possibilities. The State of Kansas cannot be lectured to better care of the soil, to greater crops, to more live stock, to more intensive agriculture, or to a betterment of the social life of the farm. The Kansas farmer has been lectured almost to the point of disgust—politically and agriculturally. Kansas lecturers are numerous and untiring. They have been on the job continuously for forty years. They have accomplished little or nothing. The way to help a man is to work with him. This Kansas conference should be a factor pervading every line of industrial activity to the extent that on every hand and at every turn may be something practical to be seen and taken hold of for the thought and consideration and adoption by the agriculturist and every man who comes in touch with agricultural affairs.

It should be largely the object of this movement to develop ways and means for the better and more impressive application of forces and institutions we already have at hand for promoting our welfare. For instance, it should become a factor in the distribution and application of money expended for the state's advancement. It should be behind every wholesome movement for the expansion

and usefulness of the Kansas Agricultural College and Experiment Station, the county farmers' institute and the establishment of county demonstration farms in every county and the inauguration of the farm advisor in every county in the state. The annual farmers' conference can be a big, directing and generally helpful organization along these lines.

A broad plan of organization, therefore, must be adopted. Financial resources must be available which will place this work close to the farmer. These resources cannot come through the contribution of the different lines of business directly interested or magnanimously disposed. It must work largely through state supported institutions already established and make more effective and broaden these accomplishments, awakening the public conscience. Every organization—merchant, bankers, manufacturers, railroads, etc.—should be enthused, and every individual member working to the common end.

Above all, the purposes and deliberations of the annual farmers' conference must be practical and sincere. It must have the confidence of those whom it seeks to help. To obtain this confidence the conference must keep its feet on the ground. It cannot afford to become the spokesman of an element of white-shirted farmers. Its deliberations must be within the grasp of the man who holds the plow handle. Its program should be filled with those men who have accomplished results under the prevailing and peculiar conditions of their neighborhoods. For instance, the farmers of Kansas will take notice when men like Shaw, of Medicine Lodge; Benton, of Onaga, and dozens of others, talk about feeding silage to beef cattle. The learned and eminent W. A. Henry, author of "Feeds and Feeding," probably has forgotten more about feeding than either of the above gentlemen ever knew, but the rank and file of Kansas feeders will give the first named gentlemen greater heed. They would take more stock in what George Plumb, of Emporia, has to say about growing alfalfa than they would in the authors of all the alfalfa books printed. The two examples are sufficient to illustrate the editor's point.

You cannot longer fool the public. The farmer knows whether or not a man talking about feeding the dairy herd has ever milked a cow. He knows whether a man talking about fertilizing the farm has ever spread a load of manure. It is characteristic of farmers to shy at what impresses them as being theory and not supported by actual experiences and practice. You can't blame the farmer, either, for this feeling. He's been humbugged so often that he's now looking for the real thing.

The farmers' conference cannot afford to imitate meetings of other prominent organizations of state, the addresses of which are delivered to empty seats, insofar as the attendance of the farmers of Kansas is concerned. If it is the purpose of the farmers' annual conference to import "stars," print their addresses and circulate them in booklet form, then the farmers' annual conference might just as well buy these papers, print and distribute them and allow the farmer to save time, money and energy and remain at home doing things as he believes they should be done.

It is not the purpose of this comment to throw cold water on this movement. These remarks are intended to have the effect of steering those who have this conference in charge, toward the organization of an institution worth while. This conference must be practical and sincere. In its deliberations the Kansas language must be spoken. Kansas has a language—it's a language all her own. She has men of practical experience, able and competent to speak this language with a sincerity and practicability which will enthuse and warrant leadership. We must regard the Kansas attitude and Kansas spirit and proceed along those lines, molding and re-molding, slowly but surely, such of

those ideas which at present are not right, and this must be done by men who know of success in Kansas and what Kansas farmers require for increased prosperity and happiness.

WHEAT AND PROSPERITY.

The Farmer's Guide, published at Huntington, Ind., and which is a live farm paper, remarks that all eyes are turned to the Kansas wheat fields this year. "The success or failure of the wheat crop of that state will determine, to a large measure, the trend of wheat prices and consequently our daily bread for the coming year." True, the wheat of Kansas has made our state famous. In 10 years, ending with 1910, Kansas produced more wheat than any other state for the same period. Corn, however, is the big money crop of Kansas. It brings to the Kansas farmer greater income than any other crop we have, yet we utilize only about 60 per cent of the feeding value of the corn crop. In 1909 Kansas was seventh in the production of corn, second in the production of wheat, third in the production of all cereals, and tenth in the production of hay and forage. In the latter crop, New York, Iowa, Pennsylvania, Ohio, California, Wisconsin, Illinois, Michigan and Missouri each outyielded Kansas, showing that those states which, for the most part have given up wheat, are growing the essentials for the production of live stock, demonstrating the passing of wheat growing in those states and the advent of live stock farming, which has in each been recognized as the backbone of a permanent prosperity. When honor fails to fill the pocketbook and satisfy the hunger, it is an absolute failure. Kansas farmers should not seek the empty honor of being first or second in wheat production, but should seek a rank well up in the list of states in the production of those things which will produce meat and dairy products, namely, corn, alfalfa, Kafir and sorghum.

Corn conditions throughout Kansas are spotted. In some sections there will be a bumper crop. In other sections a good half crop will be gathered. In some small areas there will be little corn. In some sections corn needs rain but is not damaged. Kafir in all sections stands to make a good crop, yet. Chinch bugs have done a good deal of damage, but are letting up.

The local papers have numerous reports of large wheat yields—many running as high as 50 bushels per acre. We have no doubt such yields exist in fact. We know of many yields as high as 40 bushels. If some of these yields occurred in your neighborhood, make an investigation and learn how they were obtained. There is a reason for everything. Know that reason. Where 40 bushels of wheat per acre was grown this year, there was something about its seeding that made it yield two or three times higher than the average.

Kansas farmers are building silos this year. Last season was an eye-opener to the man who had a lot of stock on hand with no feed. Hundreds of farmers were last fall compelled to sacrifice their herds, resulting in immediate loss and loss for many years to come. The proper use of the silo will help in preventing a repetition of these losses.

A western farmers' meeting will be held at Hays, Kan., August 27 and 28. This is the annual meeting held at the Hays Experiment Station. The program will be devoted to a discussion of the problems confronting the western Kansas farmer, and Kansas men will discuss these subjects. The Hays station is situated in that part of Kansas where it can do a work of great value to the state. This work should be watched. Every farmer can well afford to look over the Hays station at least once each year. You will be repaid for attending this meeting.

ABOUT KANSAS FAIRS.

Kansas has some 35 or 40 thriving county fairs. The local fair idea has been rapidly developing the past few years, and many good county fairs have been builded. While the Kansas Legislature has failed to locate a state-supported fair, the people of Kansas have in no wise been deterred from building two good fairs, each of which is seeking and hoping that some day it may, by adequate state support, be designated as the State Fair of Kansas. These two institutions are chartered under the laws of the State of Kansas, as the Kansas State Fair Association, Topeka in 1887, and the Central Kansas Fair Association, Hutchinson, in 1908. Each has grown and prospered and has each year given an exposition of the state's domestic industries, of great credit to Kansas.

The sensation in fair circles, however, has been the advancement of the Kansas State Fair Association. The energy and interest of the public-spirited citizens of Topeka and Shawnee County is responsible for this unprecedented progress in fair building. The purchasing by the citizens of Topeka of approximately \$40,000 worth of capital stock of the association was the first important step. The next was that of the tax payers of Shawnee County when they voted \$50,000 in bonds. Every dollar of these two amounts has been expended in permanent buildings and improvements. The expenditure of this latter sum was under the supervision of the commissioners of Shawnee County. A Shawnee County farmer recently remarked that this \$50,000 worth of bonds had done more for the county, and there was more to show for the money, than for any other equal amount of bonds the county had ever voted. The \$90,000 worth of permanent and imposing buildings built within the last two years, together with those good buildings already on the grounds, making a total of approximately \$150,000 in buildings and improvements, equip the Kansas State Fair Association as is no other fair organization in Kansas, and in only two or three other states of the Union is this equipment excelled, and then by state support only. The 1911 fair of the Kansas State Fair Association revealed the fact that these buildings are inadequate to accommodate an exposition of such proportions as the meeting of this association will assume year after year.

These improvements are located on what is probably the most valuable vacant ground available for city residence use in Kansas. These grounds are within the corporate limits of the city of Topeka, are within a 3-minutes' street car ride of the State Capitol and within a 7-minutes' walk. The fair grounds are surrounded by brick pavement and macadam roads and reached by two double-track street car lines. This tract of approximately 100 acres is valuable for residence property and, no doubt, would sell for \$4,000 to \$5,000 per acre for such use. Offers of \$2,500 per acre have been made for it.

It is doubtful if the people of Kansas realize the greatness and the magnitude of the work done by the Kansas State Fair Association. It is a fact that during the past three years this exposition has taken a front rank with the state-supported fairs of the middle west and its agricultural and live stock exhibits have been excelled by only two fairs—those of Nebraska and Iowa. The people of Kansas have cause for congratulating themselves and cause for praising the citizens of Shawnee County and Topeka on account of the service rendered Kansas without one cent of cost to its tax payers.

It's the exceptional year—the season of adverse conditions—when really good farming shows itself superior to poor farming. Many a farmer has lost his labor this year by failing to do the right thing at the right time in the right way.

GENERAL FARM INQUIRIES

The picture on this page is that of a model sanitary dairy barn in course of construction on the farm of John Perrenoud, Humboldt, Kan. The barn has basement and is 34x64x18, with a self-supporting roof. It will be equipped with galvanized mangers, patented stanchions, litter carriers and King system of ventilation. The basement floor will accommodate five horses, 16 cows, and has box stalls for calves, a harness room and a cream separator room. A silo will this fall be built adjoining the barn.

Mr. Perrenoud has a high grade Guernsey herd, among which are a number of registered cows and three registered Guernsey males. This stock was all purchased in Wisconsin, and the barn plan was secured there.

Horse Right, Cow Left.

Our subscriber, C. A. L., Floral, Kan., asks why a horse is trocared on the right flank for bloot and a cow on the left flank? The answer is: Because, in the horse, the gas accumulates in the large bowel, which lies on the right side. In the cow, the rumen or paunch is punctured and this lies on the left side.

Alfalfa in Rows.

Answering our subscriber, J. C. H., Brandon, Colo., the cultivation of alfalfa in rows has, to some extent, been practiced in western Kansas and eastern Colorado. In most instances, however, the alfalfa so sown has been grown for seed. The rows are 24 to 36 inches apart, the seeding being done with a grain drill with a part of the feed outlets being closed. Seeding should be done in the spring at a time when the young plants may safely escape frost. The field should be prepared by spring plowing when soil is in good condition to plow, the year previous, the idea being to accumulate by the fallow the moisture of the one summer and winter before planting, and at the same time to get a firm seed bed. During the fallow the land should be cultivated sufficiently to keep weeds down and to conserve the moisture. The growing alfalfa may be surface cultivated by spike tooth or Acme harrow or by disk. It will pay to inoculate the soil. This is a simple matter and is essential in the locality of our subscriber because it is altogether likely that no nitrogen-gathering bacteria are present in his soil unless alfalfa, sweet clover, or cowpeas have been grown on the land. To inoculate, distribute the soil from some old alfalfa field at the rate of at least 100 pounds per acre on the field to be seeded. The inoculated soil should be kept from the sun, as hot sun will destroy the bacteria. Distribute the soil in the evening or on a cloudy day. Distribution can be made by broadcasting or with a grain drill. In the case of the drill, it is necessary for the soil to be thoroughly pulverized and dry enough to run through the drill. Following the distribution of the inoculated soil, if broadcasted or drilled, the field should be harrowed, the idea being to get the inoculated soil covered. Sow 6 to 7 pounds of alfalfa seed per acre. This will be more than necessary if conditions are most favorable for germination. Obtain clean seed grown without irrigation and as near home as possible.

Call vs. Farm Loans.

Our subscriber, M. R. J., Lucas, Kan., asks why it is that the farmer who desires to borrow money for the purchase of land, improvement of land, or for the increase of his live stock or for feeding cattle, should have to pay 6 or 7 per cent interest, while the interest paid on call loans is at this writing from 2½ to 3½ per cent? He says call loans are made to carry on business transactions which are largely speculative and hazardous. He says the farmer offers the best security in the world in good farm land, yet he must pay almost double the interest charged for the first named loans. The editor presented this clearly to the management of one of the leading real estate mortgage companies in this city, the head of which institution is well posted on money matters. This gentleman said: "While farm lands are undoubtedly among the best of securities, yet the labor of investigating the correctness of the title, the quality of the land, the value of the improvements and particularly the purpose for which the loan is being secured, involves so much expense in the way of close personal examination, etc., that, taken in conjunction with the non-liquid

Something For Every Farm—Overflow Items From Other Departments

character of the security, it stands to reason that the real estate loan, the average amount of which is comparatively small, must command a higher rate of interest than does the call or time loan of an amount ranging from \$25,000 upward and which loan is secured by stocks which do not require such exhaustive and expensive examinations as to their value. I am of the opinion that a farm loan at 5 to 6 per cent on an amount up to \$5,000 or \$6,000, is relatively as cheap to the loaner as a stock-secured time loan of \$25,000 would be at 4 to 4½ per cent. The value of the security on the larger loan is as quickly determined as that on the smaller loan.

"Time stock loans are made on margins of about 20 per cent, and call loans on a margin of 10 to 15 per cent, the collateral being what is termed 'liquid collateral.' This is collateral readily and quickly disposed of. The call loan is promptly paid. The term is not a misnomer, but the call is answered within 24 hours, the borrower not having or expecting the privilege of paying at his convenience, as is the case on most loans made in the west.

"Many of the small loans made by

purpose to set this tank in the open and that it will not be protected from the sun. It is our suggestion that a cover be made which will protect the water and the cans in the tank from exposure to the sun. This cover should extend over the edges of the tank 8 or 10 inches, or more, if possible. This would have the effect of protecting the sides of the tank from the sun. The object of the tank and the placing of the cream in the same is to hold the cream at the temperature of the well water. It will be necessary, therefore, to prevent the water from becoming heated, and the tank should be protected from the sun by cover or cheap building.

The tank can be cheaply insulated and with little trouble. Build a frame around the tank frame 5 or 6 inches larger than the tank. Pack between the frame and tank with hay or straw. This will be good insulation. It might be more convenient to tack several layers of gunny sacks or old carpet on to the sides of the tank and cover with scrap lumber. This would prove effective insulation. If a cover for the tank is made as suggested, two layers of boards



JOHN PERRENOUD, HUMBOLDT, KANSAS, DAIRY BARN.

mortgage loan houses are in themselves of no profit, but are an incident to the business, just as the handling and sale of sugar is a necessary incident to the grocery business."

Cream Cooling Tank.

Our subscriber, S. C., Wellington, Kan., is constructing a cream cooling tank through which tank all stock water will be pumped. He will build a frame in the bottom of the tank which will prevent the cream cans from setting on the bottom, and in this way will increase the volume of water in the tank six inches as compared with the ordinary method of constructing cream-cooling tanks. He desires to know how he can arrange it so that a cream can partly filled will not float and upset.

Our suggestion is that he make a frame which will be hinged on one side and which on the other side will be fastened with a hook. The frame should be so constructed that it will fit over the neck of one or more cans, as may be desired, and when the frame is fastened down will force each can to the bottom of the tank and hold it there. This frame will remain fastened in position until it is desired to remove the can from the tank. The can will be securely held while in the tank, permitting the convenient emptying of cream into the can and the stirring of the cream.

This frame can be made to cover the entire tank and accommodate all the cans the tank will hold. The frame can be made in sections so that one can might be removed from the tank without interfering with the others. Make the frame of one-by-fours in lattice fashion with the opening large enough to fit over the neck of the can.

The subscriber states that it is his

with gunny sacks or carpet between, would make an insulated cover.

The editor has had much experience in keeping milk and cream sweet under farm conditions, for delivery to the skimming station and cream receiving station. In those days it was necessary for us to keep Saturday night's milk sweet for Monday morning's delivery and, with the aid of a tank as above described, we do not recall a single failure. The temperature of our well water was 54 degrees. There is one essential, however, in keeping cream and milk sweet, even with well water of low temperature, and that is that the animal heat be removed from the cream or milk by stirring at the earliest moment possible after milking or separating. Cream and milk are poor conductors of heat or cold. That is to say, it cools slowly, likewise heats slowly. It requires a long time for the cooling effect of the water to reach the center of the cream can if the cream is not stirred. Stirring, therefore, is essential in the quick cooling of cream. In addition to stirring, clean cans and clean utensils are necessary.

If the above subscriber should build this tank large enough he could quite handily arrange a refrigerator for the use of the women folks. He could have a tin box made 14 to 18 inches square, say, and the height of a milk can, which could be immersed in this tank. The box, of course, should be watertight and in this could be placed the milk, butter, berries and other perishable eatables, and by this means the same could be held at about the temperature of well water. It is not essential that a tin box be made for this purpose unless so desired; an extra milk can or two placed in the tank would serve this purpose, although this would

not be so convenient or handy as a specially constructed box which might be square, with a large opening, and flat in the bottom. This is a home-made refrigerator idea which can be worked out by the farmer's ingenuity, which would be well worth while.

Capacity of a Silo.

Having a round silo 30 feet high and 16 feet in diameter, find the cubical contents and tonnage. First find the number of square feet in the base, which is done by multiplying the radius, 8 (one-half the diameter) squared, 64, by 3.1416, which equals 201.06 square feet, the area of the base. Now the area of the base, 201.06, multiplied by the height, 30 feet, equals 6031.87 cubic feet, or the cubical contents of the silo.

A ton of silage measures about 40 cubic feet. Thus dividing 6031.87 by 40 equals 150, or the tonnage capacity of the silo. A cow will eat on an average 30 pounds of silage daily during the feeding season. Knowing this and the length of time the herd will be fed silage during the year, the size of the silo desired can be easily figured.

Silage from Grass.

The question has several times been asked the editor whether or not grass makes good silage. As we use the term in Kansas, grass means the wild or native grasses. We do not know of anyone who has endeavored to silo grass, either in this or any other state. We believe, however, that if grass is cut at the proper time and the proper methods used in filling the silo, it will make silage. However, in Kansas, we see no necessity for siloing our wild grasses. On nine of every ten farms the grass is worth more as pasture than when utilized in any other way. This, however does not apply to the open lands on which hay is each year cut, baled and shipped. We believe the men who are doing this are realizing more for their hay than it is worth to them either as pasture or fed on the land. Choice prairie hay is in great demand in the cities for feeding work stock and we believe it can be sold for more money than the hay farmer can get out of it by feeding.

Get Rid of Guess Work in Road Building.

No road overseer in Kansas is in a district too remote to have the benefit of the best scientific knowledge about road building. Building roads by guess work has been proved the most expensive method. It is no longer necessary. The trustee, or overseer, or county engineer, by devoting a little time in the evening to instructions that he can get practically without cost, may fit himself to do work that will stand the severest tests of weather and wear.

This instruction is in the form of an extensive course in highway construction now offered by the University of Kansas through its correspondence department.

Kafir Silage for Beef.

Our subscriber, T. H. L., Greenwood County, Kan., filled four 275-ton silos with Kafir, and below he gives an estimate of the cost of same after made into silage:

Seventy acres of Kafir corn, \$7 per acre, \$490.

Harvesting and putting feed into silo, \$210.

Interest on cost of silos, one year at 6 per cent, \$95.

Wear and tear on machinery, etc., \$50.

Cost of 500 tons of silage, \$846.

Average cost per ton, \$1.70.

The Kafir corn should not be siloed until well matured, as silage is washy when the feed is too green. This silage was fed to 260 head of four-year-old steers in connection with other roughness. As our intentions were to fatten these cattle on grass, the prime factor in feeding was to get the steers through the winter at a minimum cost without losing any weight, and to have them in good condition when turned out to grass. The steers averaged 1,050 pounds when placed in the feed lot and retained their weight throughout the winter. Although the ration given below was not proportioned, our estimates show each steer to have been fed for the 150 days:

Five bushels of shock corn; two tons of silage; two tons of roughness.

We estimate that half feeding on silage can be handled on 40 per cent less feed than in the old way, and that the cost of our silos and machinery has been paid for out of the first year's feeding.

BULLOCK AND BY-PRODUCTS

Before the modern packing house existed there was a waste of from 38 to 44 per cent of the steer when butchered for human consumption. This means that from 56 to 62 per cent only of the animal is suitable for human food and the balance is by-product.

Just how important this by-product is to the packers and, incidentally to the producer, is known when the statement is made that the packer derives his chief profit, and sometimes his only profit, from these by-products. At any rate, it will be seen that if the packer kills a steer and manufactures it into marketable beef with little or no profit he is still safe, as he has a steady revenue from the by-products. It is claimed that the packers do not always make profits from their sales and that, through their highly organized business methods, the cost of beef to the consumer is relatively lower than when no use of the refuse of the carcass was made.

Every particle of the steer is utilized in the packing house. The chief sources of the by-products which are made from the steer's body come from the hide, hair, head, tallow, hoofs, horns and intestines. Perhaps the most valuable of these is the hide, which is cured and dried and then goes to the tanner, who puts it through several processes, whence it comes out as leather to be made into shoes, belting, harness, traveling bags, etc. It has been stated, and with apparent reason, that one of the most important reasons for the present shortage of cattle in this country is due to the enormous increase in the automobile industry. Thousands of hides are now used annually from which to manufacture the cushion covers and tops of autos where none were needed before.

The head is another by-product from which a variety of things are made. The tongue is boiled and pickled for food. The flesh goes into the cauldrons, where the fat is extracted and the residue turned into meat meal or fertilizer. The teeth go into another channel of trade and the bones, together with bones taken from the choicer portions of meat and the knuckle bones, are submitted to a process which extracts the glue used in making pencils, carpets, musical instruments, furniture, books, cradles and a thousand other things. After the glue has been extracted there remains the bone meal, which is one of the best of fertilizers.

Other bones from different parts of the animal are used in the making of handles for knives and tooth brushes, dice and many other articles for which a substitute for ivory is needed.

The horns are sorted by size and color. The tips are used for mouthpieces for pipes and for many other uses. The larger portions are split and pressed flat, to be manufactured into combs, backs for brushes and buttons. The scraps are used in the manufacture of fertilizers.

*As Silo Saves All the Corn,
So Packing House Uses Entire Steer*



THE ONLY TYPE OF BEEF STEER, BUT NOT THE ONLY BREED THAT WILL PAY ON FARM.

The hoofs are valuable and serve a variety of purposes. The white ones and some of the parti-colored ones, are made into ornaments; the striped ones into buttons or similar goods, while the black ones, with horn scraps, are used to make cyanide of potassium, which is so valuable in gold extraction and in photography and other arts.

The hair is cleansed, curled and prepared for cushions, lounges, carriages, mattresses and other kinds of upholstering and the inferior varieties for plasterer's hair.

From the blood the albumen is extracted. This is used by calico printers in fixing the colors; by leather manufacturers in finishing their wares; by tanners, sugar refiners and for clarifying purposes in other manufactures. After the albumen is extracted the blood is cooked and dried, when it is ground into blood meal, which is valuable for poultry and farm animals, especially calves. The blood meal may be pulverized and use as an ammonia ingredient in fertilizer manufacture.

The fat become stallow, which has wide usefulness in cooking and the arts; or it is made into oleomargarine or butterine, the "poor man's butter," about which there has been so much controversy.

Parts of the lean meat are made into

dried beef, other parts are canned and still others made into sausage. The brain is preserved as food, and other organs are variously used. The intestines make sausage casings and other things, while into the huge steam heated vats go every scrap of bone and meat not available for other uses. From these waste pieces the fat is extracted for various mechanical uses, and the residue forms the commercial fertilizer so well known by farmers, florists and truck gardeners.

The tail is used in the manufacture of oxtail soup and this is the end of the beef steer.

The steer produced on the Kansas farm is not only the foundation of the beef supply, but he is the foundation of numerous industries of other kinds as well.

Packing houses, shoe factories and harness shops are entirely dependent upon him, while in the manufacture of furniture, mattresses, toilet articles, gaming devices, cotton goods, fertilizers, tobacco pipes, photographs, oleomargarine, dwelling houses, machinery, automobiles, buttons, ornaments, carpets, pencils, musical instruments, books, leather, poultry food, medicine, sugar, the refining of gold, the operation of railroads, and scores of other things he plays a

more or less important part. His products go into many channels of commerce and affect many kinds of business, but perhaps none is more important than the farm from which he came.

Growing into a source of profit to the farmer, he furnishes at the same time the best possible market for his grain and roughage. He eats of the grasses and grains and makes more of them possible by enriching the soil. He is a machine for the manufacture of feed into beef, leather and all the numerous articles derived from his carcass, and he holds within his sleek hide at least one solution of the vexed question of the high cost of living.

There can be no system of permanent agriculture without live stock, and the farmer who raises oats one year and corn the next on the same land and thinks he is rotating, is but little further from failure and a worn-out farm than is he who raises a single crop year after year.

The greatest need of American agriculture today is increased yield per acre, and this is economically possible only through live stock husbandry. The high value of land, the necessity for a greater food supply to meet the demands of our rapidly increasing population and the profitableness of farming all demand a larger average yield. Instead of 15 bushels of wheat and 25 bushels of corn, which is now the average, there must be much greater returns to make farming profitable and pay the taxes, interest on the investment and cost of operation.

With corn at an average price of 60 cents, the income would be only \$15 per acre, and from this must be deducted losses by storm, drouth and insects, the taxes, interest on investment, cost of operation and loss in soil fertility before the farmer can begin to see where his salary comes from.

Every farmer is his own employer, and by using good methods he can draw a fat salary. The high grade beef steer and his sister will come more nearly to helping him to do this than any other one thing, except it be the dairy cow.

Kansas has thousands of acres of rough land suitable for cattle raising which are now lying idle. Put to such use this land would not only produce a profit where none now is, but would grow more valuable each year, and the higher the grade of cattle the more sure and great will be the profit.

Pure-bred females are not necessary for the economical production of beef, but a pure-bred bull is, and the higher the grade of the females, the more economical the production.

With high-grade cattle, the silo and alfalfa, the problem of keeping one animal to the acre can be approached, and this means the most economical form of wealth production, the surest market for the products of the farm, and the only practical way of preventing deterioration in the fertility of the home acres.

The Old Spotted Sow

By JAMES M. ANDREWS, Lawsom, Mo.

"Most potent of all single influence in the building of this, the mightiest nation in history, is the spotted sow. Her sons and daughters pay the taxes, buy the shoes and clothe the family, and causes new homes to be developed farther west, and sends our children to college. They supplied the food of the Anglo-Saxon, a race that was never conquered since history began. The old sow is the mother of all the porkers that feed the human race. She is the ready aid of the farmer, the pet of the rich man and the ever-present aid of the poor. She is the economist of the farmer and the conservator of their resources. She partakes of the grains of the field, and leaves the farm richer for her presence. As she helped to develop the farm from the wilderness and as she ate of its first grains, so she will renew the life of the soil and make a greater agriculture possible.

"In all history the so has been man's closest friend and benefactor. Upon her offsprings are built the great business interests which center in the stock yards and packing houses. Without her, Chicago would be a village and Kansas City a barren hill. Take away the sow and our banks would close and the wheels of commerce would cease to turn.

Foster and care for her and the fertility of the soil is conserved and she becomes the custodian of the nation's prosperity.

"A wonderful characteristic of the Spotted Poland China is the readiness with which it responds to feed, care and environment. Breeders who demand great size and big bone, with preference along these lines, may easily so mold the breed as to conform to their most extreme ideas. On the other hand, the breed yields as readily to the endeavors of those who consider quality, finish and style the ultra object. But, no matter what may be the conflicting aims of breeders or farmers, the fact remains that the 'old-fashioned Spotted Poland China' heads the list when it comes to economical production of pounds of pork from the grains and grasses of the farm. The old-fashioned spotted breed has a capacity to adjust itself to a wide range of conditions and purposes. It is getting to be a general favorite through a greater territory than any other. The old spotted kind is worthy of still further popularity, and this end may be gained by a concerted move among farm-

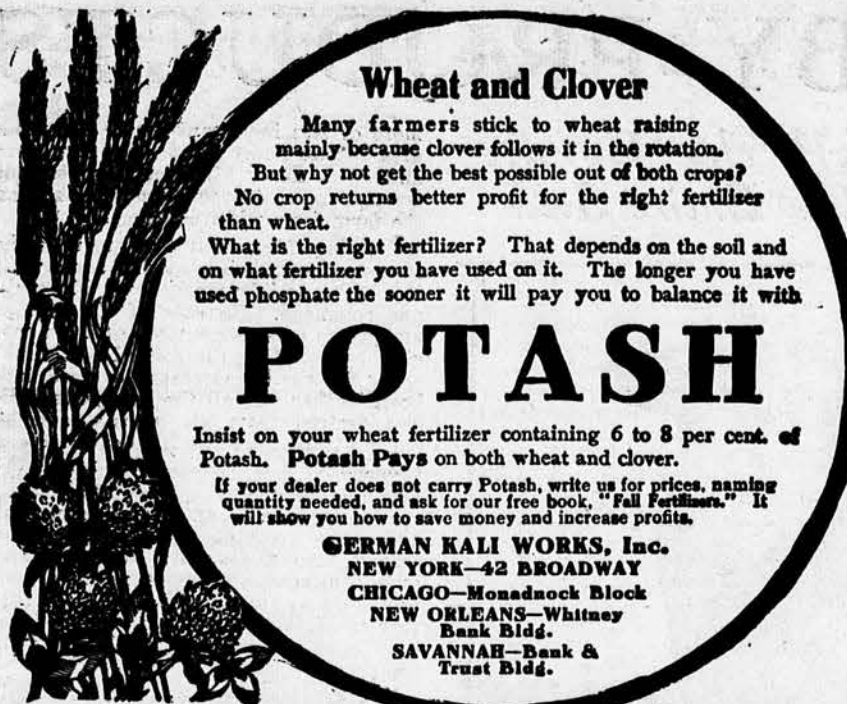
ers and breeders tending toward greater size and publicity. The development of the breed and spreading of information as to its merits should be considered secondary only to the personal interests of the farmers and breeders. They should never lose sight of this.

"The old, original, big Spotted Poland are the best hogs on earth. Why? Their immense size and good feeding qualities and their prolificacy make them superior to any other breed. The good, old Spotted Poland are the hogs of our forefathers, that were bred in the Miami Valley of Ohio, half a century ago, and their early breeders were A. C. Moore, McGee, Morton and others of their time.

"No matter what may have been the original elements or strains of blood involved in the make-up of the old, original Spotted Poland breed, it today stands as an American type, a great and unequalled source from which the pork supply of the world is obtained. The old-fashioned Spotted Poland represents the ideal towards which all other breeds looked for inspiration as to the more desirable points of form and character.

This is true for the reason that mature thought and patient, scientific investigation were given to the breed during its formative period. The aim in the beginning was to produce a fixed form which should meet all the requirements of the market, and which should possess the early maturing and easy feeding qualities so essential to profitable pork production. It is a generally acknowledged fact that the establishment of the old-fashioned Spotted Poland breed and the success to which it has attained have been without parallel in the history of domestic animals. These facts indicate the use of the old-fashioned spotted kind of our forefathers, and a continued influence of the old-fashioned material of inherent strength and potential force-factors of incalculable value in the maintenance of breed character. Breeders of the old-fashioned Spotted Poland may well feel proud of the record of their favorite and rest assured of its continued popularity."

As the season advances late planted corn appears less behindhand than earlier in the summer. But the date of frost will tell the tale.



Wheat and Clover

Many farmers stick to wheat raising mainly because clover follows it in the rotation. But why not get the best possible out of both crops? No crop returns better profit for the right fertilizer than wheat.

What is the right fertilizer? That depends on the soil and on what fertilizer you have used on it. The longer you have used phosphate the sooner it will pay you to balance it with

POTASH

Insist on your wheat fertilizer containing 6 to 8 per cent. of Potash. Potash Pays on both wheat and clover.

If your dealer does not carry Potash, write us for prices, naming quantity needed, and ask for our free book, "Fall Fertilizers." It will show you how to save money and increase profits.

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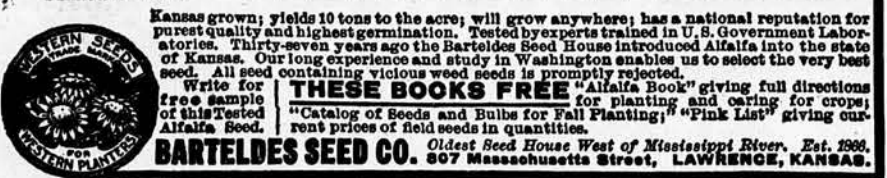
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THE FARM



Wheat sowing is the one thing now uppermost in the minds of thousands of Kansas farmers. In this column has been discussed the various phases of preparation of ground for wheat, making specific application to the eastern two-thirds of Kansas and the western one-third, and varying with the existing conditions. Plowing is not as far advanced as usual, due to a generally later harvest than usual and also to the increasing tendency to thresh from the shock. If we were to make a guess we would say that the usual wheat acreage in Kansas will not this year be sown. This is due to the slow progress in plowing and on account of the present dry condition of the soil making plowing in some sections difficult, and in other sections almost impossible at this time.

The acreage sown of pure varieties of seed wheat will be larger, we think, than ever before in Kansas. Pure seed wheat is now well distributed throughout the eastern two-thirds of Kansas from north to south across the state. Our conclusion on distribution is drawn from a list of more than 200 growers of pure-bred wheat whose fields were inspected before harvest by representatives of the Kansas Experiment Station. It is known that in this territory there are many more fields not inspected. The principal variety grown is Kharkof, a hard red winter wheat. This variety, along with Turkey Red, has been for years recommended by the Kansas Experiment Station as the best yielder for Kansas, except in the extreme eastern tier of counties. This recommendation was the result of careful investigation, both at Hays and Manhattan Experiment Stations, and also as a result of experiments conducted on farms in all parts of the state. The Turkey Red, in experiments, yielded equally well with the Kharkof, but has not won popular favor. For ten years these investigations have been under way and each year a larger amount of the seed of these varieties has been distributed among farmers. These hard winter varieties came from Russia, where they have for ages been grown under conditions similar to our own. The effort of the Kansas stations has been to improve these varieties, both in yield and quantity, and gratifying results have been accomplished. In eastern Kansas—extending over the three eastern tiers of counties and which counties are distinguished from those farther west on account of the semi-humid conditions which prevail—Harvest Queen, Zimmerman and Fultz appear to have met with popular favor. These varieties are soft winter wheat. For these counties the Manhattan station recommends Zimmerman, Fultz and Currell. In the list to which we above refer we do not find Currell as having been grown.

Every farmer should, if possible, obtain seed wheat of pure variety adapted to his locality, and he should obtain that wheat as near home as possible, provided, of course, that he can obtain seed of good breeding and free from mixture of rye and other varieties of wheat. The farmers of a neighborhood should join in the growing of wheat of one variety, for the reason that this will aid in keeping the seed pure. Such farmers may be able to avail themselves of a market for their wheat as seed, and the community producing a special kind of good wheat may be able to market at a higher price. There is quality in wheat for milling purposes just as there is quality in steers for beef purposes, and when Kansas or a section of the state has become the producer of particularly high quality of milling wheat, we believe that more money per bushel will be paid for it.

Farmers who have pure wheat and who contemplate sowing from their own seed or selling their wheat to others for seed, should make an effort to see that the threshing machines are thoroughly free from other varieties of wheat, barley, oats, rye, and weed seed before allowing the machines to come on to the farm. This is a precaution against fouling pure wheat and will promote the continued use of pure seed.

See that the wagons which haul the wheat and the grain bins are clean, also. Another thing which must not be lost sight of, is the fact that the field should be clean. The volunteer wheat and rye should be destroyed before seeding. If the farmer is not ambitious to grow an entire field of wheat for sale as seed, and is desirous only of supplying his own seed, then a specially prepared small field on which to grow wheat for seed, can be prepared to good advantage.

Regardless of how free from oats, barley, rye, weeds, etc., the seed wheat grown or purchased, may be, it will pay to clean the seed. Kansas uses about 5 million bushels of seed wheat per year. Under ordinary methods of seeding 20 per cent of this seed is something else than wheat. This adulteration of 20 per cent is made up of oats, barley, rye, weed seed and cracked and immature wheat kernels, the latter of which do not grow. The farmer thinks he is seeding a bushel or a bushel and a peck to the acre, when, as a matter of fact, he is seeding 20 per cent less and, besides, is fouling the ground with weeds and the wheat itself with oats, barley or rye. This condition of seed wheat which in former years has, in our judgment, resulted to a considerably greater extent than in recent years, shows a general lack of appreciation of the fanning mill or grain grader in the preparation of seed wheat for planting. It is poor judgment and borders closely on crime, to sow wheat as it comes from the thresher. On farms where the fanning mill has been used for cleaning the seed wheat, it is generally conceded that its use pays. Generally speaking, the large, plump grains are those which germinate best and grow into the most vigorous stalks and will possess the greatest recuperative powers, although experiment has shown that the germinating power of wheat depends more upon the density of the grain than upon the large grain. In other words, it has been found that those grains of greatest density rather than those of greatest size, grow best and produce stronger plants than the large, soft grains. There are fanning mills and graders which separate the seed into grades according to density. Large kernels of high density are most desirable. While the greatest density is not always associated with the largest berries, this usually, however, is the case. For very best results the grain grader separating the wheat into two or three grades according to its density, is desirable, but when such machines are not available, satisfactory results will be obtained from the fanning mill, the use of which will enable the farmer to sow the largest and most plump grains, removing the broken and shriveled and damaged grains along with the rye, oats, barley, weed seed and chaff.

Annual Insect Tax.

It is believed that the value of agricultural products destroyed each year in the United States by insect pests is close to 800 million dollars. This sum may be called the "insect tax" paid by farmers and orchardists. The amount is much larger than the amount required each year for the education of American children and much larger than the amount at which the buildings and endowments of 600 colleges in this country are valued. There are practically no insects damaging to crops or fruit which we are not able to control. The method of control has in every instance been made as simple and as practicable as possible. To save this amount of money per year it is necessary only for farmers and orchardists to put into practice what we already know about their control. It is our failure to do as well as we know that keeps us in the rut.

A high grade, guaranteed durable live rich red barn paint is sold by the Sunflower Paint & Varnish Co. of Ft. Scott, Kansas, direct to the consumer at only 85c per gallon in 5 gal. cans, freight prepaid. This is a paint proposition worth considering by every farmer. This is a reliable company and now is paint season. Try this paint.

LIVE STOCK

If your pigs have scours or are not thrifty, get busy with the swill barrel and give it a thorough cleaning.

Slop is feed, not drink. It does not satisfy thirst. Plenty of clean, cool water is essential for successful hog raising.

Mighty few men make a great financial success in handling hogs in large numbers, but there are many thousands who grow wealthy by always having hogs on the farm that are well bred and well cared for.

Illinois and Iowa men are coming to Kansas City market in numbers to buy stock and feeding cattle. This is unusual, and shows the urgent need of cattle, as well as the scarcity of this class at Chicago.

Feed your pigs well, but don't feed lice. Feed is too valuable to waste, and the lousy hog has to eat enough to support both himself and the lice. Hogs that are raising lice cannot attend to much other business.

Don't ever fear to raise and store plenty of feed for stock. If there should be a surplus in the spring, it can easily be sold, while if there should be a shortage, disaster results. Who shall say just how much of the industrial unrest of today is due to the high price of meats caused by feed shortage?

Corn is the best feed known for farm stock, but corn alone is one of the poorest. If balanced with a protein feed nothing will produce better results. Animals can be finished for market on a ration consisting chiefly of corn, but at no other time should they receive such a ration.

The famous Elm Ridge race track, near Kansas City, has been abandoned, the buildings sold and the land will be divided up into building sites. Elm Ridge was equipped with about \$267,000 worth of buildings, and was a most beautiful place. The Missouri anti-gambling law put it out of business as a race headquarters, and no other satisfactory use was found for it.

The famous Smithfield hams of Virginia are made from semi-wild hogs of the "razorback" type. While young they run wild in the woods and acquire a gamy flavor. After the corn is husked they are turned into the fields in which there is growing black-eyed peas in alternate rows. After peanut harvest they go in for a cleanup, as also into the sweet potato fields. They are finished on corn.

If you have any trouble of any kind with your live stock; if you don't seem to produce the right type; if you don't get the quick growth which brings profit; if your sows don't produce big litters, or if you have any questions unanswered in your mind, then attend the State Fair. You will not only see the correct type of hogs of your breed, but you will meet the men who succeed and who can answer your questions.

In commenting on the article on the Ideal Hog House in KANSAS FARMER, Mr. H. A. Pennington of Hutchinson, Kan., says: "Many hog houses have been built on the right principle, but with the windows placed either too high or too low so that the floor in the pens does not get the maximum amount of sunshine. The height of the windows must depend upon three factors: The latitude of the farm on which the house is built, the distance from window to back of house, and the date at which the breeder wishes his sows to farrow."

Hogs Should Make Money.

"Stay with the hogs," said Joe Newman, the great hog king of the Kaw Valley, whose hog yards and pens near Abilene, Kan., attract much attention. "No farmer will lose money raising hogs if he handles them the right way," said Mr. Newman in the Live Stock Report. "Some men would lose money raising hogs at 10 cents a pound. Others would make a profit on them at 5 cents a pound. Running back over the past ten years we discover that the average price on hogs was high, and sufficient to make them the most profitable live stock on the farm. In that ten years, we had two years when the market was down, but we had two years with prices the highest on record."

"As the cities grow, and the farm

population decreases, as it is doing, the demand for pork products is sure to hold up. There is no substitute for bacon and hams, as well as many other pork products. The farmer who prepares for handling hogs right will find them very profitable all the time."

Successful Flocks—and Others.

Successful flocks, flocks that are a paying investment, are invariably the property of farmers and breeders who are wide awake to the demands made upon them by the trade to which they cater.

In shipping to market, we always cherish a hope that our stock will bring the top price and yet how very often we are disappointed. To top the market it is necessary, first of all, for the stock to show "quality" or "breeding." After we have this, it is a matter of proper feeding.

How else are we to get "quality" in the flock other than by the infusion of some pure blood, either by the use of pure-bred rams or the offspring of pure-bred ewes. The latter method is, of course, the slowest and the most expensive. The former method is the common practice, but is it common enough? Aren't there plenty of sheep raisers in your neighborhood who claim pure-bred rams are too costly to use on grade ewes? They are not willing to pay, say, \$25, for a pedigreed yearling ram when a "just as good" grade ram can be bought for \$10 to \$15. And yet, isn't

it doubtful if they have ever actually figured it out in dollars and cents?

Let us suppose we use the two rams two years and then dispose of them at 50 per cent of their first cost. The cost of the grade ram, we will suppose to be \$10, and the pure-bred ram \$25. The shrinkage in value then would be \$5 and \$12.50.

If each ram served 50 ewes per year, or the equivalent of 100 ewes for the two years, the sire service has been 5 cents per ewe for the use of the grade ram and 12½ cents for the pure-bred ram. Is it not a fact, then, that the man who uses the grade ram and does not attempt to breed up his flock is neglecting his only opportunity to instill in his flock the fundamental prerequisite of market topping sheep? And his only reason for so doing is to save the difference in sire service, which amounts to 7½ cents per ewe. And isn't it also a fact that sheep sired by a pure-bred ram typical of his breed are invariably worth many times more than the difference in the cost of sire service? So, after all, such a "saving" is not a saving at all; in fact, the attempt to save is made at a clear loss. It is also clear that if there is an increased value in the sheep the first year, from the use of pure-bred sires, there will be an added increase of value the second year and each succeeding year, until the flock reaches a theoretical state of perfection.—JOHN J. VROOMAN, Henley Ranch, Greencastle,

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The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUTERY OR FIRING. Impossible to produce sores or blisters. Every bottle sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars.
THE LAWRENCE-WILLIAMS CO., Cleveland, O.



WHY WE SHOULD DRAIN

Farmers say "fields that averaged 25 bushels per acre, now average 50 to 60 bushels per acre since tiling." "I have realized 25 per cent on my investment in the increased yield of a single crop." When one can double his crop; when one field will do the work of two, why hesitate to tile?

More interest is being given in Kansas on increasing the yield per acre than ever before. Write for "Hints on Farm Drainage," sent free by

HUMBOLDT BRICK MFG. CO.
HUMBOLDT, KANS.

No-Rim-Cut Tires

10 Per Cent
Oversize

Why Do Men Buy 100,000 a Month?

The present demand for Good-year tires exceeds 100,000 monthly.

That's a larger demand, by tens of thousands, than any other tire commands.

Close to one-third of all the tire demand centers on Goodyears now. Yet there are 25 makes of tires.

The demand for No-Rim-Cut tires doubles every eight months.

Why is it that motorists, by the hundreds of thousands, have come to these patent tires? And why are they still coming—by legions and legions—faster than we can supply them?

They Are Weary of Waste

These myriads of motorists have grown weary of waste.

They want tires that can't rim-cut. They want oversize tires. They have found out a way to cut tire bills in two.

They have learned that more tires are needlessly ruined than are ever worn out in service.

Tire Cost—Where It Goes

On the average, half that one pays for old-type tires is wasted in two ways.

Rim-cutting alone wastes 23 per cent. Out of every hundred ruined clincher tires, statistics show that 23 are rim-cut.

Overloading wastes 25 per cent. It is the chief cause of blow-outs.

Our 10 per cent oversize, under average conditions, adds 25 per cent to the tire mileage.

These two features alone—No-Rim-Cut and

oversize—mean an average saving of 48 per cent.

The Old Way

The old way was to build a tire exactly rated size. With nine cars in ten those tires at times were badly overloaded. The result was blow-outs, and a short-lived tire.

And the old type of tire was a hooked-base tire, with the rim flanges set to curve inward.

Such a tire may be wrecked in a moment, if punctured and run flat. Even under-inflation may lead to rim-cutting—a ruin beyond repair.

The New Way

The No-Rim-Cut way is to build a tire 10 per cent over the rated

size. That takes care of the extras. It avoids overloading. It adds, on the average, one-fourth to the tire mileage.

And the new type is a hookless tire. Rim-cutting is made impossible. Thus the two main items of tire expense are completely eliminated.

We control by patents the only way to make a practical tire of this type.

That is why the demand for this new-type tire centers on Goodyear No-Rim-Cut tires.

You are bound to come to them. Oversize tires and tires that can't rim-cut save too much to miss.

Our 1912 Tire Book—based on 13 years of tire making—is filled with facts you should know. Ask us to mail it to you.

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities More Service Stations Than Any Other Tire
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits

(753)

Watch Your Hogs

during the hot weather. When the sun beats down they don't get enough exercise, they "get off their feed." Look out for Hog Cholera. Begin to mix

Lewis' Lye

The Standard for Half a Century

with their slop—a quarter of a can to every barrel—a teaspoonful to five gallons. For Lewis' Lye is the best hog conditioner known—is used by thousands of hog raisers. Don't take chances—get Lewis' Lye at once—better be "safe than sorry." It is in the can with the Quaker on it. Ask your grocer or write to us for our free lye book.

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Manufacturing Chemists
PHILADELPHIA

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Desk With BLUE PRINT PLANS FREE

You get practical hints for storing and handling ear corn and small grain. Our free book gives plans, lumber bills and itemized cost of building corn cribs and granaries—also full information about

MARSEILLES

Portable Elevators and Wagon Dumps

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John Deere Plow Co., Moline, Illinois

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Cuts corn, alfalfa, field peas, soy beans, sorghum, kafir corn, milo maize, dry fodder, etc. Send name on postal for FREE Book. Address: SILVER MFG. CO., Salem, Ohio.

STEEL ROOFING \$1.25 PER 100 SQ. FT.

Greatest Roofing offer ever published. New, high grade, durable Steel Corrugated Roofing, \$1.25 22 in. x 24 in. Per 100 sq. ft. When ordering this lot mention 7-Ad-700. This price is f.o.b. Chicago. Write **Freight Paid Prices** for We can furnish Roofing and Siding from the cheapest to the best. Write for our prices on Galvanized Roofing at \$2.50 per 100 sq. ft. and up. ASK FOR FREE ROOFING CATALOG Valuable information on Ceiling, Siding & Roofing CHICAGO HOUSE WRECKING CO. Dept., 749, Chicago

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FARM AUTO

For the Farm Auto Owner
Inquiries and Suggestions Solicited

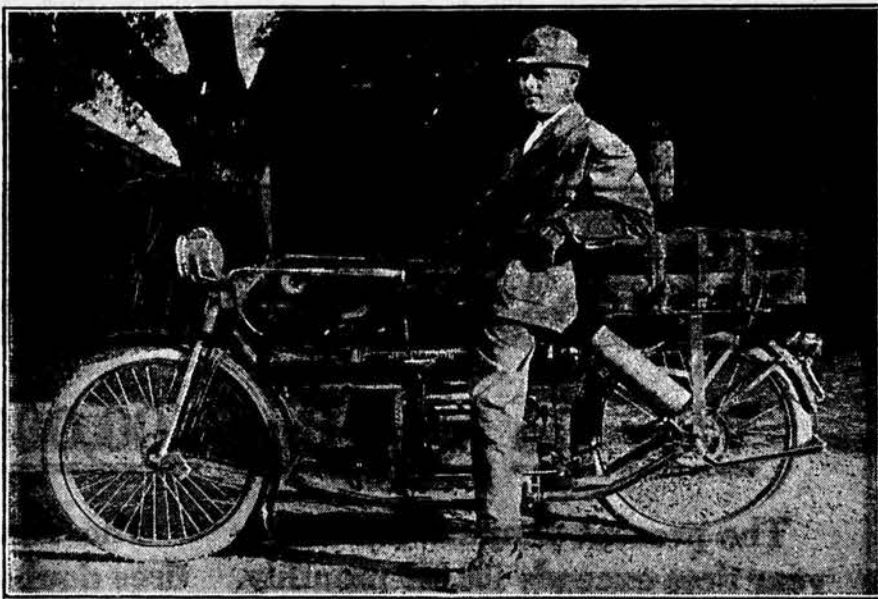
Motor Horse Power.

Subscriber C. E. L. Lorraine, Kan., asks how the horse power of automobile engines is figured. The formula adopted by the A. L. A. M. is generally accepted as giving approximately the horse power of an engine. This formula consists of squaring the bore of the cylinder, then multiplying the result by the number of cylinders, and dividing by 2.5, which gives the approximate horse power, based upon a piston travel of 1,000 feet per minute. Still there are many other things to be taken into consideration. When the piston of the engine is traveling at, say, a rate of 600 feet per minute, the power designated by the

clutch as in the case of an automobile. His machine was equipped with speedometer, Presto-lite, and has two seats for as many passengers. Smith said his average speed was 25 miles an hour, and he covered about 40 miles on a gallon of gasoline.

Automobiles on the Farm.

Our subscriber, R. S. P. Benson, N. D., desires to add a bit to the automobile literature of this column, and writes: "I have had an auto for the last two years. It is a two-cylinder car. The first fall after getting it, four of us took a trip to Kansas in it. We started on the 22nd of October. We were



K. E. SMITH, TRAVELING SALESMAN FOR GLOBE TANNING CO., USING MOTORCYCLE.

formula is not so great, and when the piston is traveling at a rate of 1,200 feet or more per minute, there is an increase over the indicated power. The specific gravity of the gasoline, temperature of gasoline and temperature of water, have their effect on the power, also.

Winnipeg Motor Contest Winnings.

The Case Threshing Machine Company writes KANSAS FARMER of the success of its engines—both steam and gas—in the Winnipeg motor contest. The advice states that the Case engines were the only entrants to win gold medals in both the steam and gasoline classes. The Case 110-horse-power steam engine broke all Winnipeg records. Its nearest competitor used 60 per cent more coal than the Case. The 40-horse-power Case gas tractor outclassed all competitors in low fuel consumption, power developed, simplicity and ease of operation and perfect work. The Winnipeg contest is international and is held annually under the supervision of the Canadian government, and is open to all manufacturers of farm power machinery. KANSAS FARMER had arranged in advance of the contest for a complete report, and it will be printed immediately upon its receipt.

Traveling Salesman Uses Motor Cycle.

The utility of the motor cycle was never more forcibly demonstrated to the editor than last week, when K. E. Smith, of the Globe Tanning Company, Des Moines, Ia., made us a friendly call. He was on the last leg of a five weeks' trip from Des Moines on his 4-cylinder Henderson motor cycle. Besides his necessary equipment of clothing and toilet articles, he carried a complete line of the goods his firm turns out. These are packed in the suit case shown in the picture. He claims that he is making this trip more economically and more expeditiously than if he had traveled by train and used the necessary livery hire to make the best use of his time. The motor cycle he rode attracted keen attention in all towns, and particularly in Topeka, in which place it may be said that people have gone motor cycle crazy. This Henderson has a wheel base of 66 inches and a miniature 4-cylinder automobile air-cooled motor. The machine has no peddles, the motor starting by crank and the power is applied by a

seven and one-half days traveling 800 miles. We carried our luggage, and camped where night overtook us. The cost of the trip was a little more for the four of us than the car fare would have been for one. Besides, there was the pleasure of the trip, that we would not have had going by train.

"At the price of autos, now, there is very little difference in the price of a good driving team, buggy and harness. A good team will cost \$300 to \$500; a buggy, \$75 to \$125; harness, \$30 to \$50. A good 5-passenger touring car can be bought from \$899 up, according to how much one cares to pay. Then there is the feed for the horses when they are not at work, while the auto is costing you practically nothing when it is not at work.

"The thought of so many is that it takes a lot of money to keep an auto in repair. The expense is not as large as the cost of feed to keep the team. Some persons will be a great deal harder on a car than others.

"Tires are the most abused part of a car. There are more tires spoiled by not being kept pumped up to the pressure that the manufacturer recommends, than are actually worn out by use. My brother has a car that he uses for all sorts of work. It has a detachable rear seat. He takes off the rear seat and takes five or six sacks of grain to town, and brings home the same amount of coal, or other things that he happens to need at the time. One day his cattle broke down a place in the pasture fence. He loaded on some new posts and wire and soon had the fence repaired. If it had not been for his auto he would have had to take a team out of the field where they were at work.

"I will close by telling of one of our best trips with the auto. This summer we went to the state fair. There were my brother, two friends and myself. The four of us weighed 740 pounds, our tent, bedding and provisions, which weighed 200 pounds. If we had gone on the train it would have cost us \$29.20 for car fare for the round trip. With the auto the expense was not over \$10. Then we saved the expense of hotels, which would have been at least \$10 each. Anybody that has been at a state fair knows what the hotel charge is. Then we had the pleasure of seeing the country as we went through."

HOOSIER GRAIN DRILLS

Just take a careful look at the cut of the Hoosier Single Disk Drill shown below. Note the wonderful up and down range of the disks. See how straight the draw bar pull is. The disks stay right to the work and the draft is light. The Hoosier Drill has time and labor saving features that are worth much to you.

You can get any size or style Drill in the Hoosier Line from One-Horse up in Plain Grain and Combined Grain and Fertilizer—Single and Double Disk, Hoe and Shoe. There is built a Hoosier Drill that will meet your needs and do the work right, no matter where you live. Send for the Hoosier Drill Catalogue, read it, and then go to your local dealer and insist on seeing the Hoosier Drill. Absolutely guaranteed.

THE AMERICAN SEEDING MACHINE CO.
INCORPORATED
RICHMOND, INDIANA U.S.A.



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This special treatment makes the Des Moines creosoted silo twice as desirable to you as any other. It is a scientific process. Makes the silo proof against rot, moisture and all effects of weather exposure. Fills it above any other silo, hence better than any silo ever made.

Creosoting Makes the Wood Everlasting.

You buy the Des Moines Silo once. Then you're through spending money. No bills for repairs. No rotted or warped parts to replace. Creosoting makes this silo last practically forever. Ours is the only silo creosoting machine in the world. Then to make the job complete our inside

Hoop, Double Anchors and Economy Roof make this the best silo you can buy. Write for Free Pamphlet by Users of Creosoted Silos and description of our creosoting process. Explains why hundreds of farmers will have no silo but the Des Moines. Write **Des Moines Silo & Mfg. Co., Station Kf Des Moines, Iowa**

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BUILT OF FIR
ONE-PIECE STAVES—half-inch tongues and grooves—heavy all-steel door-frame—hinges form ladder—billet steel hoops—a silo with every convenience and built to last a lifetime. Write for catalog.
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Built of Concrete are the Best value for the money
No Repair Bills. No Insurance
WRITE FOR PRICES
HOPPER & SON, Manhattan, Kansas

Ask for Auto-Fedan HAY PRESS Catalogue

The Auto Fedan Self-Feed, Auto-Fedan Belt Power Press, 2-stroke Horse Press and one horse press. The Auto-Fedan Hay Press Co., 1564 W. Twelfth St., Kansas City, Mo.

POULTRY

Hens are laying better at this time than for several seasons past. There should be no scarcity of fresh eggs.

To keep the hens laying, it is necessary to look after their welfare. Care should be given them each day so that they be strong and healthy for winter work.

In gathering the eggs, some farmers will leave an egg in the nest for a nest-egg. This is a bad practice, as the egg that is left often becomes stale before being used. If nest-eggs are used at all, use china ones. But why have a nest-egg? They have no influence on the hens laying, and are not found in any of the large poultry plants. The nest-egg theory has long since been exploded.

During the last year or so the treasury of the American Poultry Association has shown a little surplus. But no sooner does it appear than the buzzards seek to deplete it. At the annual meeting next month it is proposed to make the office of president a paying one, with a salary of \$2,500 per year. The presidency has heretofore been an honorary office and honorable men have filled it, but if this graft succeeds, it will be changed to an ornery one.

After all is said and done, there are no breeds of fowls that can beat the American breeds. For hardiness, flavor of flesh and egg-laying, they are away ahead of all the much-heralded breeds sent in from other countries. This is not merely our say so, but it can be proven by studying the reports of the experiment stations and egg-laying contests now going on. The American breeds are now in the front ranks of the egg-layers in the Missouri state contest, and for flesh producers they are away ahead of all breeds. This notion of running after everything that is new is all wrong. Stick to the old reliable breeds that have been tried and tested and found "not wanting."

In answer to a subscriber who complains of rats getting away with his young chicks and requesting a remedy for exterminating the rodents, would say that if powdered sulphur and cayenne pepper are scattered around the rat holes the vermin will disappear. Another remedy is to scatter powdered lye around their holes. The lye will stick to the rat's feet, who commences to lick them, which will cause death. Another remedy that we have tried and proved successful is to take Stearn's rat paste and place some on pieces of bread, and scatter in the runways of the rats. Care should be taken to gather up in the morning any pieces of the poisoned bread that has not been eaten by the rats, otherwise, the chickens are liable to eat it and get poisoned.

Judge Drevenstedt is not a friend of the caponizing art. He says that capons are a desirable and superior article of food, no one will deny; that they are any better than well-fattened pullets or cockerels, where the latter have been separated as soon as the sex was noticeable, is extremely doubtful. In fact, he believes they are inferior in quality. Besides the cost of caponizing and the additional time it takes to properly prepare a capon for market, makes this branch of the poultry industry of doubtful value, albeit a few men succeed in getting good prices for a limited supply, the demand seldom exceeding the latter. We can bear out the judge's opinion that the flesh of a nice young cockerel is fully equal to the capon's, having tested both, and that in the West there is no demand for capons commensurate with the time and expense expended to procure them.

Jamaican Trade in Booby Eggs.

United States Counsel Julius D. Dreher, writes from Port Antonio, as follows: "Booby" is the name given long ago by British seamen to several of the smaller species of Gannets, because these sea fowls are regarded as stupid, since they show no fear of man.

In the spring and summer, millions of these birds flock to Morant Keys, three islets about 35 miles southeast, and to Pedro Keys, four islets, 40 to 50 miles south of Jamaica. Both of these groups are leased for a term of seven years to private individuals by the Colonial government of Jamaica. Although cocoanuts have been planted and a few huts built on Pedro Keys, the lessees derive their profits almost

Get Busy With a Baler

IF you have clover, timothy, prairie grass, or alfalfa, it will pay you to bale it. Loose hay takes barn space. You cannot sell it easily and you cannot ship it at all. It is the hay that is baled which is in demand in the high-priced city markets. This is the hay upon which you make your profits.

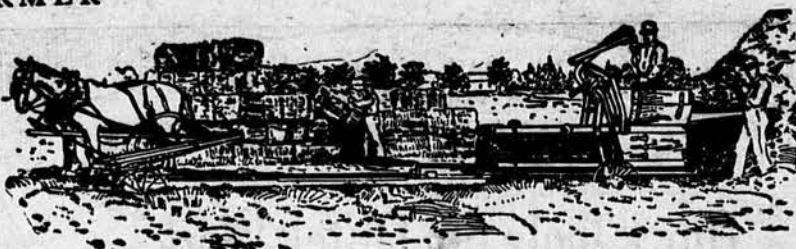
The difference between what it costs to bale hay and the increase you get in price per ton, gives you a bigger margin of profit on your work than anything else you do on a farm. You can bale easily from 8 to 16 tons a day and under certain conditions, several tons more. Baled hay can be made as much a big cash crop to you as your wheat, corn, or oats. All you need is the right kind of hay press. There is money in owning an

I H C Hay Press

An I H C pull power press in either one or two-horse style, or an I H C motor press with a 3, 4, or 6-horse power I H C engine, will do the work required on any farm cheaper, quicker, and with less attention than any other hay press so far designed.

It has taken years of field testing to make these presses the best that you can buy. They are that now. The horse power presses have greater capacity than any other horse press of equal size. They are lighter draft and easier on the horses. The step-over is the lowest and narrowest made. They have an adjustable bale tension, which insures compact bales. They are equipped with a roller tucker to turn in all straggling ends, thus making each bale neat in appearance.

I H C motor presses consist of a bale chamber and an I H C engine mounted on substantial trucks. The bale



chamber of the motor press corresponds in size to the bale chamber of the horse press—14x18 inches, 16x18 inches, and 17x22 inches. No time is lost in setting up the machine. It can be moved easily from place to place, backed to the stack or barn, and started to work at once. The engine does not need a man to watch it and there is no danger from sparks. When not baling hay, the engine can be detached. Two extra wheels, an axle, and a belt pulley are furnished, so that with a little adjusting, you have a regular portable I H C engine ready for business 365 days each year. You can operate a small thresher or corn shredder, saw wood, shell corn, grind feed, pump water, generate electricity, or run a cream separator. You thus purchase two useful machines in one. There is profit in the hay press and unlimited work in the engine.

Hay time is drawing near. Be prepared for it. Drop in and see an I H C local dealer in your town, or write for a catalogue.

International Harvester Company of America
(Incorporated) U S A

Chicago

I H C Service Bureau

The purpose of this Bureau is to furnish, free of charge to all, the best information obtainable on better farming. If you have any worthy questions concerning soils, crops, land drainage, irrigation, fertilizer, etc., make your inquiries specific and send them to I H C Service Bureau, Harvester Building, Chicago, U S A



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Hutchinson, Sept. 14-21, '12
\$42,000.00 in Premiums

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In the Heart of Agricultural Kansas

The most complete Agricultural, Live Stock and Industrial Exposition
in the Great Southwest

The Only Fair in the State Authorized by Law to Issue Premiums in the Name of Kansas

Competition in all Seventeen General Departments Open to the World

7 Great Races 7
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Carnival
The best in America
for 1912

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Great Southwest
All Railroads Operate Extra
Equipment and Extra Trains

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The Real Thing
More
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Than Ever Before

New Santa Fe Railroad Switch to Grounds
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HAY KNIFE
No. K Price \$1.00

"Quick Tools for Quick Work"

A day or two means all the difference between having corn in the "milk" and just right for silage, or being too late and getting lessened food value. A hundred such jobs come every year on every farm. Good tools—handy to use and expertly tempered to do the job in hand—these you get every time in

KEEN KUTTER
Tools for the Farm

Half a century of skill and experience in every tool bearing the Keen Kutter trade mark—tools of every kind for every purpose—tools that are right or your money waits for you—quality tools because

"The Recollection of Quality Remains Long After the Price is Forgotten."

Trade Mark Registered. —E. C. SIMMONS.
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**SIMMONS
HARDWARE CO., (Inc.)
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U. S. A.**

KEEN KUTTER

CORN KNIFE
No. K89 Price \$0.50

CANE KNIFE
No. K8 Price \$0.65



When a New Perfection Comes in at the Door Heat and Dirt Fly Out at the Window.

What would it mean to you to have heat and dirt banished from your kitchen this summer—to be free from the blazing range, free from ashes and soot?

New Perfection Oil Cook-stove

With the New Perfection Oven, the New Perfection Stove is the most complete cooking device on the market. It is just as quick and handy, too, for washing and ironing.

STANDARD OIL COMPANY
(An Indiana Corporation)

**This Stove
saves Time
It saves Labor
It saves Fuel
It saves—YOU**

Made with 1, 2 and 3 burners, with long, enameled, turquoise-blue chimneys. Handsomely finished throughout. The 2- and 3-burner stoves can be had with or without a cabinet top, which is fitted with drop shelves, towel racks, etc. All dealers carry the New Perfection Stove. Free Cook-Book with every stove. Cook-Book also given to anyone sending 5 cents to cover mailing cost.

Be Sure to Say When you write our Advertisers **I Saw Your Adv**
In this paper. Our advertisers like to know from which papers their orders come.

ONE CENT

AN HOURS WORK ONE CENT!

That is the average cost per horse power hour when doing the work with a WITTE gas, gasoline, distillate and naphtha engine. Why pay 25 to 50 cents per hour for one hired man when for one cent the work of several men can be done better and quicker. You can do the work just when you want to and ninety-five per cent of the money you are now wasting then goes into your own pocket. We ship every engine complete with all instructions, nothing is lacking, simply put in fuel and water and it is ready for work. You take no risk for WITTE engines are good engines. They "stay good." That is why we can give you a

FIVE YEAR GUARANTEE

The WITTE JUNIOR is built in sizes 2, 4, 6 and 8-H. P.; larger WITTE engines in sizes 10 to 40-H. P. Spend one cent for a postal card, state the size engine you need and let us send you our new free catalog with the best proposition ever made on this "money-saving" engine. A special inducement to introduce in new localities.

WITTE IRON WORKS CO.
1627 Oakland Ave., KANSAS CITY, MO.

DAIRY

The dairyman has been called upon to buy numerous recipes which would make an abnormal quantity of so-called butter from a given quantity of milk. Likewise, he has been called upon to buy churns which, with the use of certain ingredients in the milk will produce an abnormal quantity of butter. The food commissioner of Ohio has issued warning that all persons found selling butter from the use of the recipe or the use of the churn, will be prosecuted. It should be recognized that the manufacture of anything other than normal butter is a fraud and illegal. If a person wants to use the butter so produced in his own family, that is his business, but to sell the same is a fraud upon the public, and is so recognized by the federal law and by many state laws.

The Missouri Stations expects this year to obtain from a herd of six Jerseys and three registered Holsteins, at least 4,000 pounds, or \$1,000 worth, of butter from nine cows, leaving the value of the skim milk and that of the calves over and above that amount. These cows will receive the same treatment given other cows in the dairy herd. These cows are not the equal, by far, of the great cows of either of the breeds represented. They are regarded, however, as such cows as it is practical for the farmer to develop in his herd. Think what a satisfaction there would be in milking nine cows such as these. Think, too, of the profit. Then, when you realize that such cows are within your reach, why not set about developing such a herd? If you are thinking of it, don't delay. Begin at once.

How to prolong the life of the wild grass pasture is a question of importance—not only with dairymen, but with every farmer who keeps stock. The United States Department of Agriculture is recommending the division of the field into two or three pastures, the idea being to pasture one lot to a certain stage, then pasture No. 2, and finally No. 3, alternating through the season. We believe this is a good plan, and we know, personally, two or three farmers in central Kansas who are handling their wild grass pastures in this way and on each farm the pasture is as good as it has ever been. Along with the alternate pasturing of the lots the weeds are kept down by mowing, and these two things seem to have maintained pastures in good condition.

A beginner in the pure-bred live stock business has a good many things to learn. This is true whether he is breeding dairy cattle, beef cattle, hogs, sheep or horses. First, he must familiarize himself with the fact that it requires several years to build a reputation, but from the very beginning he should be able to sell his pure-bred stock—if it is meritorious—for more money than its value for meat. In breeding dairy cattle, however, the sale of dairy products can be counted upon as more than paying the running expenses. When the herd is developed to the point where the reputation of the breeder is sufficiently established, then he begins to realize his real reward as a breeder. The breeding of dairy cattle can be entered upon at less expense than the breeding of other kinds of live stock. The main opportunity for the beginning in any kind of pure-bred stock is in bringing his herd before the public through judicious advertising and correspondence. The dairy breeder has one advantage over other breeders through the fact that he is able to make official records for his cows, and these records, if good, obtain publicity which gives his operations a good send-off.

Thinks this Man Needs Spanking.

The following shot was taken by A. P. Sanders, secretary of the Ohio Board of Agriculture, at a recent meeting of the Farmers' National Congress, at the farmer who does not feel a manly pride for his profession:

"You need not apologize for the business you are in. You ought to be proud of it, and that is what I want to see the farmers of this country do. They ought to be proud of the business they are in, and I would like to spank the farmer who stands up and says, 'I don't want you to expect too much of me, because I am only a farmer.' Yes, I would like to spank him. I used to teach school and I found that some of those good little boys had to get a spanking once in a while, and when they got education and information from both directions they were sure they knew something about it afterwards."

Save \$486 by Getting Your Champion Silo in August

This is an actual saving. Nearly \$500 extra money in your pocket if you order your silo now instead of postponing until too late to use it this fall and winter. You can feed a herd of 50 cattle one season with the Champion for \$486 less than you can without ensilage. This saving is equal to having \$8,000 invested at 6%. Figure up the size of your herd and see for yourself just what you lose if you delay buying a silo.

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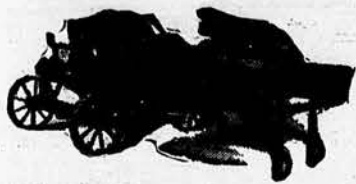
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There is always the age when a child has outgrown the high chair, yet is not quite ready for the ordinary dining room chair. To meet this difficulty screw the knobs known as door bumpers into the bottom of the four legs of a common chair.

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FIELD NOTES

FIELD MEN. O. W. Devine.....Topeka, Kan.
Jesse R. Johnson.....Clay Center, Kan.
W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES. Oct. 15—James Strader, Irving, Kan.
Percherons.
Nov. 14—J. C. Robison, Towanda, Kan.

Jersey Cattle.
Sept. 5—George E. Norman, Newtown, Mo.
Holstein Friesians.
Sept. 18—S. E. Ross, Creston, Iowa.
Feb. 4—Henry C. Glissman, Station B, Omaha, Neb.

Herefords.
Oct. 8—American Royal, Kansas City, Mo.
Oct. 23—O. Harris, Harris, Mo.

Shorthorns.
Oct. 9—American Royal, Kansas City, Mo.

Galloways.
Oct. 10—American Royal, Kansas City, Mo.

Angus.
Oct. 11—American Royal, Kansas City, Mo.

Red Poll Cattle.
Oct. 11—J. B. Davis, Fairview, Kan.
Oct. 25—Milton Pennock, Delphos, Kan.

Poland Chinas.
Sept. 3—S. P. Chiles, Jefferson, Kan.
Sept. 11—W. B. Wallace, Bunceston, Mo.
Sept. 12—Bert Harrison, Pilot Grove, Mo.
Sept. 25—W. A. Burk, Trenton, Mo.
Sept. 27—John T. Curry, Winchester, Kan.
Oct. 2—J. O. James, Braddyville, Iowa.
Oct. 1—John C. Halderman, Burchard, Neb.

Oct. 2—Williams Bros., Villisca, Ia.
Oct. 3—Thompson Bros., Marysville, Kan.
Oct. 8—J. D. Spangler, Sharon, Kan.
Oct. 9—Herman Groninger & Sons, Bendena, Kan.

Oct. 12—R. L. Pomeroy, Elk City, Kan.
Oct. 14—Verney Daniels, Gower, Mo.
Oct. 16—H. C. Graner, Egan, Kan.
Oct. 18—H. B. Walter, Effingham, Kan.
Oct. 18—W. E. Long, Meriden, Kan.
Oct. 17—J. H. Baker, Butler, Mo. Sale at Appleton City, Mo.

Oct. 17—M. T. Williams, Valley Falls, Kan.
Oct. 17—Wayne Hudson, Hemple, Mo. Sale at Stewartsville, Mo.
Oct. 19—W. H. Charters, Jr., Butler, Mo.
Oct. 19—Andrews' Stock Farm, Big Spotted, Poland, Lawson, Mo.

Oct. 18—T. W. Strickler, Craig Mo. Sale at Tarkio, Mo.
Oct. 21—Roy Johnson, South Mound, Kan.
October 22—Jacob Sparks, Patonsburg, Mo.
Oct. 22—John W. Noll, Winchester, Kan.
Oct. 23—T. E. Durbin, King City, Mo.
Oct. 23—Harry W. Hoak, Attica, Kan.

Oct. 23—R. J. Peckham, Pawnee City, Neb.
Oct. 24—L. E. Klein, Zeandale, Kan.
Oct. 24—L. V. Okeefe, Stillwell, Kan.
Oct. 25—Hull & Bean, Garnett, Kan.
Oct. 25—J. J. Hartman, Elmo, Kan.

Oct. 26—Frank Michaels, Erie, Kan.
Oct. 26—W. F. Rieschick, Fall City, Neb.
Oct. 29—N. E. Copeland, Waterville, Kan.
Oct. 31—W. Z. Baker, Rich Hill, Mo.
Oct. 31—J. H. Harter, Westmoreland, Kan.

Nov. 1—Walter Hildwin, Fairview, Kan.
Nov. 1—John Gildow & Sons, Jamesport, Mo.
Nov. 2—Black & Thompson, Hopkins, Mo.
Nov. 2—E. J. Manderscheid, St. John, Kan.
Nov. 2—Hubert J. Griffiths, Clay Center, Kan.

Nov. 7—J. A. Winebrenner, Tipton, Mo.
Nov. 8—W. A. Baker & Son, Butler, Mo.
Nov. 8—A. C. Lebaugh, Washington, Kan.
Nov. 9—Lomax & Starrett, Severance, Kan.
Nov. 13—Herman Groninger & Sons, Bendena, Kan.

Nov. 15—O. R. Strauss, Milford, Kan.
Nov. 16—J. B. Dillingham, Platte City, Mo.
Jan. 16—H. B. Walter, Effingham, Kan.
Jan. 24—Jas. G. Long, Harlan, Iowa.
Jan. 30—C. W. Jones, Solomon, Kan.

Feb. 6—J. L. Griffiths, Riley, Kan.
Feb. 6—H. Fesenmeyer, Clarinda, Iowa.
Feb. 6—Thompson Bros., Marysville, Kan.
Feb. 7—J. O. James, Braddyville, Iowa.
Feb. 8—W. H. Charters, Jr., Butler, Mo.

Feb. 12—Ira C. Kyle & Son, Mankato, Kan.
Feb. 13—Carl Jensen & Son, Belleville, Kan.

Duroc Jerseys. Aug. 31—J. R. Blackshore, Elmland, Kan.
Sept. 4—W. R. Huston, Americus, Kan.
Sept. 25—White Bros., Ross, Kan.

Oct. 2—Fred W. Lahr, Corning, Iowa.
Oct. 5—S. W. Alfred & Sons, Enid, Okla.
Oct. 11—J. B. Davis, Fairview, Kan.
Oct. 18—Jeff Constant & Son, Denver, Mo.
Oct. 26—E. C. Jonagan, Albany, Mo.

Oct. 29—W. B. Bales, Manhattan, Kan. Sale at College.
Oct. 30—Thompson Bros., Garrison, Kan.
Nov. 12—Lant Bros., Denis, Kan.
Jan. 17—E. H. Gifford, Lewiston, Neb.
Jan. 29—W. E. Monasmith, Clay Center, Kan.

Jan. 30—J. W. Wohlford, Waterville, Kan.
Feb. 4—Alvin Villander, Manhattan, Kan.
Feb. 6—Thompson Bros., Garrison, Kan.

O. I. C. Sept. 5—G. E. Norman, Newtown, Mo.
Oct. 10—J. S. Kennedy, Blockton, Iowa.
Oct. 24—R. W. Gage, Garnett, Kan.
Oct. 25—Milton Pennock, Delphos, Kan.

State Fair, Topeka, September 9, 10, 11, 12, 13, 1912.

Corydale Holsteins. Mr. L. F. Cory of Belleville, Kan., starts a card in this issue in which he offers for sale a 2-year-old Holstein registered bull. He is an excellent individual and out of A. R. O. stock and closely related to very high-testing dams. Mr. Cory also offers 16 unregistered cows bred to freshen soon to noted registered bulls. Write Mr. Cory and mention Kansas Farmer.

The Berkshire Record. Volume 40 of the American Berkshire Record is now being distributed from the office of Secretary Frank S. Springer, Springfield, Ill. This volume is gotten up in the usual excellent style, which characterizes Secretary Springer's work, and contains pedigrees numbered 160,001 to 165,000.

Strauss' Poland Chinas. O. R. Strauss, the successful Poland China breeder, of Milford, Kan., reports the horse as doing well. His are the big heavy boned kind and always make good when given half a chance. His foundation stock came from the best big type herds, and the selections since have been of the best. Write him.

The nicely illustrated catalog of S. P. Chiles' show herd of Poland Chinas will be ready to mail out in a few days. Don't fail to get your name on the list, and arrange to attend. Jefferson is in Montgomery County, and the electric line from Coffeyville or Independence, Kan., will stop at the sale barn. Sale ad will appear next week in Kansas Farmer.

The Wolverine.

The ordinary farmer, the man who has the quarter or half section farm, and only two to six weeks' plowing, cannot afford to put the cost of his farm into a heavy tractor. He has his haying, harvesting, hauling off crops, threshing, baling, shredding, husking and ensilage cutting, in fact there are 101 things as important as the plowing, and the Wolverine All Purpose Tractor will do them all. The first cost is only about one-half of the big heavy plowing tractor, and not any more than six or eight good horses. With the Wolverine the farmer on the average sized farm can do all his own work without the aid of hired help, and a lot of his neighbors as well. The Wolverine is made by the old reliable Ypsilanti Hay Press Co., of Ypsilanti, Mich. They guarantee the Wolverine with a binding guarantee to do as represented. Write for their descriptive circular matter and mention Kansas Farmer.

Henley Ranch Shropshires.

Attention is called to the advertisement of the Henley Ranch, at Greencastle, Mo., in this issue of Kansas Farmer. This great ranch of 8,000 acres is the home of one of the largest and finest flocks of Shropshire sheep in the United States. The largest number of imported ewes in any flock in the United States will be found on the Henley ranch. The facilities for breeding sheep on this ranch are such that they are able to offer the greatest values of any breeders in this country, and at this time they are offering exceptional values in American-bred and imported yearling rams. These rams are an outstanding good lot, well matured and are in every way the high class kind that give satisfaction to the purchaser wanting the best, not only in breeding, but in individuals. They also offer a choice selection of ewes of all ages, to be bred and shipped this fall. The entire offering is one that will interest Shropshire breeders. Look up their advertisement, also Mr. Vrooman's article, "Successful Flocks, and Others," in this issue of Kansas Farmer. Write for description of stock at once. Please mention Kansas Farmer when writing.

State Fair, Topeka, September 9, 10, 11, 12, 13, 1912.

Wilbur J. Mansfield, Manager of the Mansfield Land Co., Ottawa, Kan.



This firm is one of the foremost in the real estate business in Eastern Kansas. It makes a specialty of farm lands, and in the course of a good many years' business has handled the transfers of many hundreds of Kansas farms. This firm enjoys a fine reputation, built up through its many years of honorable dealings. Its hundreds of customers have come to have full confidence in the owners and officials of the company in every transaction they may undertake. Anyone in search of a good farm bargain, anywhere in Kansas or good southwestern states, should write Mr. Mansfield personally at the above address.

The Best Way to Save Your Stock From Worms.

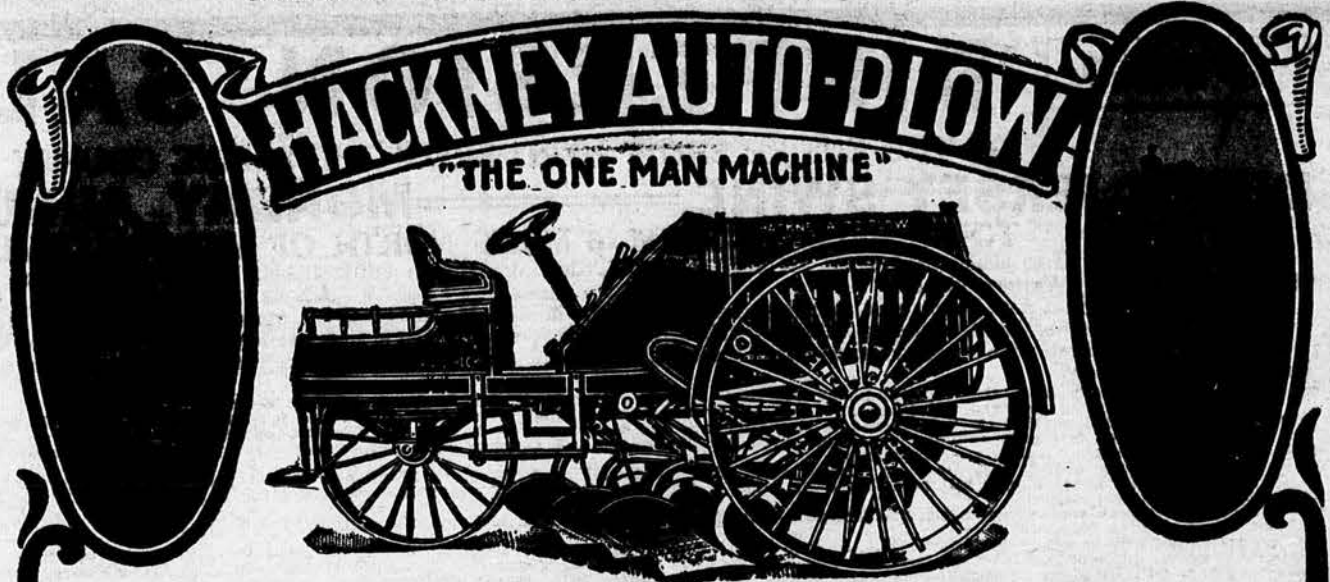
It has been said that 90 per cent of all the sickness among farm animals is due to stomach and free intestinal worms which are taken into the system while the stock is on pasture. When the older worm-infested animals are turned into the feed lot their droppings soon distribute enough larvae to infect all the young animals which may have been worm free. The larvae develop into worms, which crawl to the top of the grass blades, where they are most certain to be taken in with the animals' food. In this way practically every farm animal becomes infested. The result is frequently sickness and often death, especially among sheep and hogs. Practically all the prominent stock owners and many agricultural experiment stations are now using "Sal-Vet," and endorsing this wonderful preparation. It is not only a sure and inexpensive remedy, but extremely convenient to use. Being prepared with salt as a base, all you need to do is to let your stock run to it freely, and they will doctor themselves. Mr. Sidney R. Fell, the president of this company, offers in his advertisement, which appears in this paper, to send enough to feed all your stock 60 days before you pay, and agrees to make no charge whatever if you are not pleased with Sal-Vet.

Business Education.

Every young man or young woman reader of Kansas Farmer who contemplates taking a course in a business college, should read the advertisement of the Gem City Business College, in this paper, and write to President Musselman for the catalog. The Gem City is the largest business college in the world, and its graduates are holding responsible positions all over this country, besides in foreign lands. Gem City Business College was founded 42 years ago by D. L. Musselman, Sr., in Quincy, Ill., and so comes nearly being the mother of them all. Business colleges all over the country have been founded by graduates from Gem City. Kansas has two Gem City students who are at the head of their own business colleges. They are Mr. C. D. Long, of Emporia, and Mr. W. H. Quakenbush, of Lawrence. And there may be others. High schools especially, look to Gem City for teachers so that graduates from this great national business college have many opportunities open to them when they have secured their degrees. When writing, please mention this paper. Address, President D. L. Musselman, Box 24, Quincy, Ill.

E. B. Wilson's Delaine Merinos.

The card of E. B. Wilson, of Stanberry, Mo., commences in this issue of Kansas Farmer. Mr. Wilson is the owner of one of the very best flocks of American and Delaine Merino sheep in the west. The foundation stock came from the famous Shattuck flock, and all breeding stock added since the foundation of the flock has been the best that money would buy, which accounts for the excellence of Mr. Wilson's present flock and for the many prize winners it has produced. This year 40 rams in the flock shared an average of 22½ pounds to the fleece. Mr. Wilson's offering for 1912 consists of 40 rams and a few young ewes.



Great Labor-Saving Machine For The Farmer

THE bane of almost every farmer's life is being obliged to depend on "hired help." The loss of "man" or "two," at certain seasons of the year, is a very serious matter and often involves loss of crop. The HACKNEY AUTO-PLOW, the only "one man machine" on the market that can be used successfully for plowing, seeding, haying, harvesting, as a stationary engine for power purposes, and as a tractor for hauling loads, etc., makes the farmer INDEPENDENT and solves the vexatious labor problem. It eliminates drudgery and helps to keep the "boys" on the farm.

The Hackney Auto-Plow will do the work of 10 horses and 2 men plowing and plows from 10 to 12 acres per day. It is a tireless worker, day or night, and there is no cost for "keep" except when in operation. So simple in construction and easy to operate that it is really a pleasure to run it. The cost is less than the medium priced automobile.

The Hackney Auto-Plow is the only machine that WORKED EVERY DAY at the field trials at the Minnesota State Fair. Catalog, photographs and testimonial letters, from satisfied users, free on request.

HACKNEY MANUFACTURING COMPANY,

593 Prior Avenue, ST. PAUL, MINNESOTA

S. R. FEIL
Pres.
Registered
Pharmacist
and
Chemist



I'll Feed Your Stock 60 Days Before You Pay

I Want to Send You a 60-Day Supply of



To Try at My Risk. I Don't Ask a Single Penny of Pay in Advance

Sidney R. Fell, Pres. THE S. R. FEIL CO., Dept. KF Cleveland, Ohio

STOCK can't thrive and put on money-making flesh as long as deadly stomach and free intestinal worms are sapping their strength and blood. I want to show you how Sal-Vet expels these parasites quickly, without drenching, dosing, mixing or starving. You simply let your stock run to it freely and they will doctor themselves. Sal-Vet costs nothing if it fails and only 1-12 of a cent a day for any sheep or hog if it does what I claim.

See List of Chas. Leet & Sons, Mantua, Ohio, Importers and Distributors of fine Shropshire and other breeds of sheep.

Robt. Blazstock of Walnut Hill Stock Farm, Donerell, Ky., says: "I consider that in Sal-Vet lies the salvation of the sheep business in America."

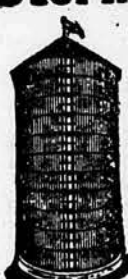
Prices 25¢ lb. 50¢ lb. 100¢ lb. 200¢ lb. 300¢ lb. 400¢ lb. 500¢ lb. 600¢ lb. 700¢ lb. 800¢ lb. 900¢ lb. 1000¢ lb. No shipment made of less than 40 lbs. Net weight in bulk; only in trade-packed Sal-Vet packages.

Send No Money—Just the Coupon

Simply fill out the coupon, tell me how many head of stock you have and I'll ship enough Sal-Vet to last them 60 days. You pay the freight charge when it arrives. When the 60 days are up report results. If Sal-Vet does not do what I claim, I'll cancel the charge—you won't owe me a penny.

Name _____ P.O. _____ State _____ Shipping Sta. _____ No. of Sheep _____ Hogs _____ Cattle _____ Horses _____

Buy a Storm Lake Silo



For the next sixty days our prices will interest you. We want you to know the special features of our PATENT HINGE DOOR and all about the construction and material used in the Storm Lake Silo.

We want to send you a free copy of our SILO BOOK. Let us know the size silo you want and we will name you an attractive price. Write us today. Can ship any size immediately.

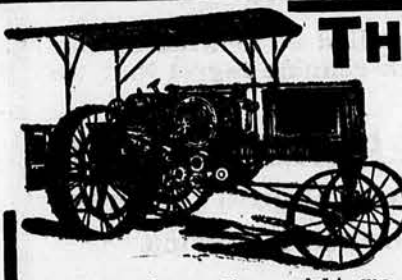
Storm Lake Tub & Tank Factory STORM LAKE, IOWA

He could furnish a carload of rams on short notice. This is an offering that sheep breeders should not overlook. Look up Mr. Wilson's card in Kansas Farmer and write for prices. He will interest you. Please mention Kansas Farmer when writing.

State Fair, Topeka, September 9, 10, 11, 12, 13, 1912.

Daniel Leonard & Sons' Shropshires.

The card of Daniel Leonard & Sons, Iowa's pioneer breeders and importers of Shropshire sheep, commences in this issue of Kansas Farmer. This flock was established in 1858, and is one of the largest in the country. They are offering a very fine lot of yearling rams this year, and will also sell some imported herd rams, if taken soon. Their motto has always been to sell the good kind. A customer always gets fair treatment and his money's worth, and a customer once, means a customer all ways. They believe fair treatment to all customers a good advertisement. Their sheep are kept on five different farms; that is why they are always healthy and vigorous breeders. Daniel Leonard, the senior member of this firm, is 83 years of age. He has bred and handled sheep all his life and his sons have taken charge of the business where he left off and have the benefit of his very many years' experience as a practical breeder. The best sires to be had, regardless of price, have always headed this great flock. Also, the choice



The ideal size, medium weight, medium priced engine, within the reach of the small farmer.

THE YPSILANTI HAY PRESS CO.,

YPSILANTI, MICHIGAN, U. S. A.

THE WOLVERINE 18 H.P. 25 H.P.

Convenience and ease of handling The Wolverine All-Purpose Gas Tractor recommend it to the farmer. With one hand on the steering wheel, The Wolverine can be handled as easily as a team of horses. It will do all the work on your farm and also work at odd times for the neighbors. Light construction, high, wide wheels enables to move over soft ground without packing. The All-Purpose Wolverine is ideal for any kind of field work, the plowing, discing, seeding, husking, shredding, ensilage cutting, separating and baling. It will do the light and heavy hauling, either on the small farm or the biggest ranch. Write for full description and price to

ewes from the best flocks in England have been added to the flock from year to year. Their offering this year is one of the best. Write them at Corning, Ia., for description of stock and prices. Please mention Kansas Farmer when writing.

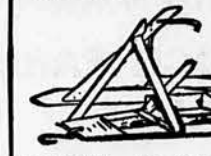
L. V. Okeefe Polands.

One of the successful breeders of Kansas is L. V. Okeefe, of Stillwell, Kan. Mr. Okeefe has the large, smooth Poland Chinas, the useful kind that mature quick. At the head of this herd is the great breeding boar, Big Logan Ex, by Logan Chief, and out of the big sow, Madam Shapley. Big Logan Ex is assisted by Missouri Metal, by Bell Metal, a hog that has proven a great breeder of large, even litters. Mr. Okeefe is claiming October 24 for his annual fall sale. On this date he will offer a draft of the very best Poland now in the herd. Kindly watch for further mention in Kansas Farmer, and arrange to attend the sale.

Poland Chinas With Quality.

With this issue P. L. Ware & Son of Paola, Kan., send a change of copy. They now offer early spring pigs singly or in pairs and trios, not akin. Any breeder wanting to start a herd could do well to buy seed stock from the Ware farm. Mr. Ware and son are the most careful breeders we know of. Everything on the Ware farm has a place, and everything is kept in the right place. The herd consists of some high-class

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.

brood sows. The spring pigs are by Ware's Hadley and Miami Chief, two boars that have proven good sires. If you want large, smooth Polands, write to P. L. Ware & Son. They have them, and can price them very low for quick sale. You can make no mistake if you buy from this herd. Kindly mention Kansas Farmer when you write.

Clover Leaf Herd Big Polands. Jacob Sparks, of Pattonsburg, Mo., owner of the Clover Leaf herd of big boned, prolific Poland Chinas, writes that his spring pigs are doing fine. Mr. Sparks has one

75 HEAD

DISPERSION SALE

75 HEAD

OF THE ENTIRE SHOW HERD FROM THE SALINE COUNTY HERD.
DUROC JERSEY SWINE, MONDAY, AUGUST 26th, 1912
 TO BE HELD AT FARM, 6 MILES NORTH OF MARSHALL, MISSOURI.

This includes the three choice herd boars, "MISSION MODEL," by Iowa Model; "COL. I AM," by Pal's Model, dam Ohio Chief's G. D. by King of Cols.; "SIR MATHEW," by "Western Wonder."

These are three great herd boars, good enough to head any herd. Mission Model and Col. I Am are 2 years old; Sir Mathew, Jr., yearling. Ten tried and yearling sows, including MODEL QUEEN, first prize, champion and grand champion junior yearling sow at Interstate Fair at St. Joe, last fall. ZORA MODEL, first prize senior yearling sow; Marietta, the second prize sow at Missouri State Fair at Sedalia last fall; also a winner at American Royal Live Stock Show.

FOUR other choice sows sired by "Duke of Fairview" and bred for September farrow to Mission Model and Col. I Am. Three choice coming senior yearling sows (open) that will make the judge sit up and take notice in the show ring this fall, being winners in the six months class last fall, and I had intended putting them in the show ring this fall, and they would be a good addition to any show herd.

Also twenty-five fall gilts (coming yearlings) bred for September and October farrow—these are sired by "Col. I Am" and "Western Prince" and are as fine a lot of gilts as will go through a sale ring this summer.

FIFTEEN choice spring gilts sired by "Col. I Am," "Mission Model" and "Western Wonder Jr.," including some show prospects. Also TWELVE extra choice fall boars sired by "Col. I Am" and "Western Wonder Jr.," and everyone a good one—weighing between 300 and 400 pounds each. Also including some show prospects.

Also TEN choice spring boar pigs, that are first-class in every respect, and include several show prospects, and as I do not care to make the shows this fall, I am putting everything in this sale.

Catalogues will be ready by August 15. Anyone wanting catalogue, please write at once. All mail bids addressed to either myself at Marshall, Mo., or Col. Fred Rippert, Decatur, Ind., or to either of the field men—J. W. Cody of Kansas Farmer, J. B. Gillett of Duroc Bulletin, G. W. Berry of Mail and Breeze, or A. T. Cole of Farmer and Stockman, will be given honest and fair treatment. Also guarantee safe arrival of all hogs at your express office. For catalogues and further information address

Remember the date, as the sale is to commence at 1 o'clock p. m. Monday, August 26, at farm six miles north of Marshall. Auctioneers. **G. V. BUSH, Marshall, Mo.**

HAVE YOU A GOOD SHROPSHIRE RAM?

If Not You Cannot Afford to Be Without One

Our unequalled facilities for breeding sheep enable us to offer biggest values. American bred yearlings at \$25, imported yearlings at \$35, well matured January lambs at special prices. Also a choice selection of ewes, all ages, to be bred and shipped this fall. An early order insures choicest individuals, so write us today. We guarantee satisfaction.

HENLEY RANCH, :: :: 8,000 ACRES, :: :: Greencastle, Mo.

A FINAL CLEAN-UP BERKSHIRE SALE

AT KINLOCH FARM, KIRKSVILLE, MO.

Thursday, August 22, 1912

NEARLY 200 HEAD

will be sold. You can buy them AT YOUR own price. Nothing reserved

Professional duties have compelled us to wind up our Berkshire business, and it is with genuine regret that we announce this sale.

RIVAL'S LORD PREMIER WILL BE SOLD

This announcement alone should interest every Berkshire breeder in America

In this final clean-up sale will be found daughters of the world's greatest sires, such as Lord Premier's Rival, Premier Longfellow, Masterpiece, Rival's Lord Premier, Berryton Duke, Jr., etc. They are bred to our great boars.

Send for your catalog at once. If you cannot attend, send mail bids to L. E. Frost, Springfield, Ill., or W. J. Cody, of Kansas Farmer.

KINLOCH FARM, Kirksville, Mo.
C. E. STILL, GEO. M. LAUGHLIN

of the good lots of early spring pigs, and they are the big, high class kind. His herd boar, Missouri Prospect, is one of the big type Poland China sires that has made good as a breeder. In fact, he is among the best sires of the breed. For his fall offering, Mr. Sparks will have one of the best lots that will be offered this season. They are big, stretchy, high class pigs, and have plenty of quality. Clover Leaf herd is one of the outstanding good herds. Watch for announcement of sale later.

A Great Holstein Offering.
 S. E. Ross, of Creston, Ia., one of the progressive Holstein breeders of that state, claims Wednesday, September 18, as the

date for his big Holstein sale. On the above named date Mr. Ross will sell 50 head or more of pure-bred and high grade Holstein cows and heifers. The cows and heifers in this offering are an outstanding good lot and both pure-bred and high grade cows have records as producers that makes the offering a very attractive one to buyers wanting Holsteins that make good. The offering will include five outstanding high class Holstein bulls. Among them is Union Gerben Duke by Myrtle Gerben De Kol Duke. Union Gerben Duke's dam was Princess Gerben Josephine, a cow that made a record of 18,512 pounds of milk and 634 pounds of butter fat in one year. Union Gerben Duke is a Holstein bull of the ideal

type. He is a magnificent individual and is one of the best Holstein sires in service in the west today. This great herd header will interest breeders wanting a strictly high class bull. This will be one of the good offerings of the season. Send postal card at once for catalog. Watch for further announcement, which will appear in Kansas Farmer. Please mention this paper when writing.

J. W. Elliott's Shropshires.

Attention is called to the card of J. W. Elliott of Polo, Mo., in this issue of Kansas Farmer. Mr. Elliott is one of Missouri's leading Shropshire breeders and owns one of the select flocks in the country at this time. Mr. Elliott's flock was established 20 years ago. The foundation stock was imported from the best flocks in England, and additions have been made to the flock from year to year until the Elliott flock ranks with the best in the United States. The flock is now headed by Butter and Dakin rams, Butter 842 being one of the great Shropshire rams now in service in this country. He is a fine individual and there is no better breeder in service. A young Dakin ram now in service in this flock is also a very fine individual. He is a show ram and won first as a ram lamb at Sedalia in 1910. Mr. Elliott is offering a splendid lot of yearling rams this year. They were all sired by his great imported ram, Butter 842, and many of them are out of imported ewes. The increasing sales of breeding stock from year to year and the many letters received by Mr. Elliott from satisfied customers in many states is evidence that breeding stock from the Elliott flock makes good. All stock sent out is carefully selected, only the tops are held for breeding purposes. Write Mr. Elliott at Polo, Mo., for prices. He will interest you. Please mention Kansas Farmer when writing.

E. S. Farlee Visited.

A representative for this paper recently visited Mr. E. S. Farlee, Poland China breeder located at Rydal, in Republic County, Kansas. Mr. Farlee in a quiet way has been getting together a very choice herd of registered hogs of the big type. His present herd boar, Rydal Chief, was sired by Choice Goods, the \$250 prize winning Nebraska boar. Rydal Chief is a boar with lots of size and quality. That he is a good breeder is proven by the spring pigs now on the farm sired by this boar. His dam was the great sow, Mammoth Queen, by Nebraska Boy. Mr. Farlee's sow herd is composed of sows of great size, among them daughters of J's Wonder, a son of Republic County Chief. Others are by Mogul Again, a son of the great Mogul, and some are by a grandson of Guy's Price. Mr. Farlee is a young man of intelligence and energy and bids fair to become one of the foremost breeders of the west. The spring crop of pigs is exceptionally good and has lots of size. They are ready to ship and will be sold at reasonable prices. When writing please mention Kansas Farmer.

J. E. Weller's Durocs.

J. E. Weller, of Faucett, Mo., owns one of Missouri's leading herds of Duroc Jersey hogs. Mr. Weller's herd was established nine years ago with foundation stock selected from the best herds, regardless of cost. During the past few years breeding stock from this herd has been drafted to the best herds in Iowa, Kansas, Oklahoma, Missouri, Tennessee, Mississippi and Arkansas. The present head of this herd is Red Rambler, sired by Crimson Rambler, by Crimson Jack, by Crimson Wonder. Red Rambler is a splendid individual and one of the good breeders of the breed. A fine lot of Hanley, Tip Top, Notcher, Ambition, Crimson Wonder Again, and sows by other noted sires is a feature of the herd that will attract breeders wanting ideal type Durocs. This year Mr. Weller has a good lot of spring pigs and will have them in fine condition for the fall trade. Watch for his announcement later in Kansas Farmer.

Bargains in Durocs.

Grant Chapin, of Green, Kan., is prepared to make some sweeping reductions in prices.

PURE-BRED SEED WHEAT.

KHARKOF WHEAT—COLLEGE BRED and inspected, re-cleaned, free from weed seed, delivered f. o. b. Morrowville, Kan., in new sacks, \$1.50. Samples and prices on car lots furnished on application. Henderson, Long, Haddam, Kan.

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