

KANSAS FARMER

For the improvement



of the Farm and Home

Volume 51, Number 8. TOPEKA, KANSAS, FEBRUARY 22, 1913. Established 1863. \$1 a Year

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Do you know what your boy reads?—I. D. G.



*A Foul Mind Is Hard to Cleanse and
Smutches Both Character and Companions.*

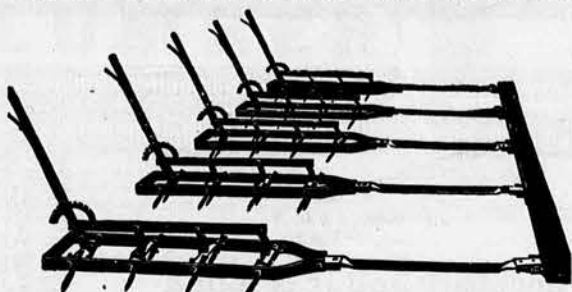
FARMERS' CONGRESS

TO BE HELD AT ST. JOSEPH, MISSOURI

March 6-7-8, 1913

No fewer than 25 men of national fame will discuss the successes in and problems of fruit growing, live stock, dairying, farm management, marketing, rural schools and churches. The men who will discuss these topics have been selected because of their practical knowledge and personal experience resulting from successes achieved in their particular lines.

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INTERSTATE AGRICULTURAL MEETING.

The following is the official program of the Interstate Agricultural and Industrial Congress to be held in St. Joseph, Mo., March 6, 7 and 8:

THURSDAY, MARCH 6, 9:30 A. M.

A. J. Weaver, Falls City, Neb., Chairman of Session.
Address of Welcome—Charles D. Morris, President Commerce Club of St. Joseph.
Response—Dr. A. Ross Hill, President Missouri State University, President of the Congress.
Orcharding—A. J. Weaver, President Weaver Orchards Co., Falls City, Neb.
The Apple Industry in the Missouri Valley—James M. Irvine, Editor The Fruit Grower, St. Joseph.

AFTERNOON SESSION, 2:00 P. M.

W. D. Maxwell, Andrew County, Missouri, Chairman of Session.
Horticulture—W. D. Maxwell, Farmer and Fruit Grower.
Teaching Modern Agriculture with Field Demonstration—L. A. Markham, Agricultural Commissioner Missouri Pacific Railway, Little Rock, Ark.
Farm Management—C. F. Curtis, Dean Division of Agriculture and Director Experiment Station, Iowa State Agricultural College, Ames, Iowa.
County Farm Adviser—J. B. Lamson, Agricultural Commissioner C. B. & Q. R. R., Chicago.

EVENING SESSION, 7:30 P. M.

Dr. H. K. Taylor, Maryville, Mo., Chairman of Session.
Rural Schools and Churches—Dr. H. K. Taylor, President Northwest Missouri Normal School.
Nature Makes the Whole World Kin—Rev. H. B. Tierney, Trenton, Mo.
Her Side of the Question—Mrs. Cora Wellhouse Bullard, Manager Wellhouse Orchards of 1,600 Acres, Tonganoxie, Kan.
Seed Corn Testing, with Stereopticon Views—Bert Ball, Secretary Crop Improvement Committee of Allied Commercial Grain Exchanges, Chicago.

FRIDAY, MARCH 7.—MORNING SESSION, 9:30 A. M.
Hon. W. J. Bailey, Atchison, Kan., Former Governor of Kansas, Chairman of Session.

Address—Ex-Governor Bailey.
The Tobacco Industry—J. M. Barker, Brunswick, Mo.
Good Roads—L. Waller Page, Director of Office of Public Roads, U. S. Department of Agriculture, Washington, D. C.

AFTERNOON SESSION, 2:00 P. M.

J. R. Koontz, General Freight Agent Atchison, Topeka & Santa Fe Railway, Topeka, Kan., Chairman of Session.
Relation of the Railroads to the Producers—Mr. Koontz.
Farmers' Co-operative Credit System—Sam Jordan, County Farm Adviser, Pettis County, Sedalia, Mo.
Co-operative Handling of Farm Products—H. J. Waters, President Kansas Agricultural College, Manhattan, Kan.
Problems of Rural Life from the Banker's Standpoint—B. F. Harris, Chairman Illinois Bankers' Association Committee on Agriculture, Champaign, Ill.

EVENING SESSION, 7:30 P. M.

R. T. Forber, Former President of the Commerce Club of St. Joseph, President First National Bank, Chairman of Session.

Agricultural Work for Business Men—Prof. H. M. Cottrell, Agricultural Commissioner Rock Island Lines, Chicago.
Rural Hygiene—Surgeon L. L. Lumsden, U. S. Department of Public Health, Washington, D. C.
Feeding and Handling the Dairy Cow (Illustrated)—E. K. Slater, Former Dairy and Food Commissioner of State of Minnesota.

SATURDAY, MARCH 8.—MORNING SESSION, 9:30 A. M.

A. L. West, Assistant General Freight Agent, C. B. & Q. Railroad, St. Joseph, Chairman of Session.
Hog Cholera—Dr. W. B. Niles, Hog Cholera Expert of U. S. Department of Agriculture, Washington, D. C.
Animal Husbandry—F. B. Mumford, Dean Missouri State Agricultural College and Director Missouri State Experiment Station, Columbia, Mo.
Farm Management—W. J. Spillman, Head of Division of Farm Management, U. S. Department of Agriculture, Washington, D. C.

AFTERNOON SESSION, 2:00 P. M.

Hon. A. M. Dockery, Former Governor of Missouri, Gallatin, Mo., Chairman of Session.
Improved Agriculture—W. C. Brown, President New York Central Railway Lines, New York City.
Dairy Cow on Every Farm—T. A. Borman, Editor Kansas Farmer, Topeka, Kan.
Farmers' Institute—E. A. Burnett, Dean Division Experiment Station, State of Nebraska, Lincoln, Neb.

EVENING SESSION, 8:00 P. M.

G. L. Zwick, Curator University of Missouri, Chairman of Session.
The City Beautiful—Mrs. Cora Wellhouse Bullard.
Concert—Fourth Regiment Band and Megaphone Quartet.

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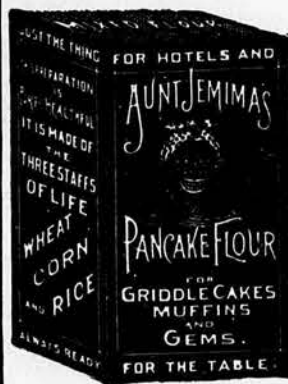
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KANSAS FARMER

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

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T. A. BORMAN, Editor in Chief; I. D. GRAHAM, Live Stock Editor.

CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Inc., Manager.
NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.

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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 case of bankruptcy of advertiser after advertisement appears. Claims must be made within thirty days.

**HELPFUL FOR WESTERN KANSAS.**

The irrigation possibilities of western Kansas and the need of developing these possibilities are attracting the attention of legislators. It is to be hoped the legislature will enact into law at least two of the good bills introduced for the encouragement and help of the western Kansas farmer. The bill of Wilson of Greeley, reported and discussed in KANSAS FARMER last week, and the bill of Senator Shouse of Edwards County, introduced a few weeks ago, are the bills which in our judgment should become law.

Wilson's bill provides for an appropriation of \$50,000 for investigations into methods of irrigation and the practicability of irrigation throughout the western third of the state. The Shouse bill provides that county commissioners may purchase deep well drilling outfits for the free use of farmers of the county owning such outfit. The contention of Senator Shouse is that those well-to-do farmers who are able to own well drilling outfits or who are able to hire such outfits are having most excellent success with irrigation from deep wells. He contends that the farmer of moderate or small means is unable to avail himself of irrigation because of the expense connected with the sinking of a half dozen or more wells, but that if such could avail themselves of a county owned deep well drilling outfit and so could drill their own wells at their own expense of time and labor, they would be able to supply sufficient water for 40 to 80 acres of land. With such wells dug, the erection of wind mills would involve a comparatively small cash outlay. The construction of reservoirs would require no cash outlay, since the farmer with his own teams could do this work.

The Shouse bill, as above described, has passed the Senate. If the House is disposed to do for western Kansas what that section of the state deserves at the hands of that body, the bill will be passed and to it will be attached the signature of the governor necessary to make the law effective. The next step, of course, in making the law effective, is that county commissioners make the necessary expenditure for acquiring the outfit. It would be a close-fisted board of county commissioners who would not expend the money necessary to provide for their county such well drilling outfits when the benefits to be realized are so certain and already so well established in many of the counties of the western third of the state.

The Wilson bill deserves enactment into law for the reason that in many counties, particularly those of the northwest, irrigation possibilities are not thoroughly established, and for this reason investigation into these possibilities is necessary and investigation can be carried on only by the use of sufficient money to thoroughly work out irrigation tests.

LIVE STOCK COMMISSIONER.

There would seem to be a considerable dissatisfaction among the members of both houses, as well as among farmers and stockmen from all over the state, in the way the Live Stock Sanitary Commission matter has been handled. Several associations of repute passed resolutions asking that steps be taken to remove this office from the direct influence of partisan politics to the end that the efficiency of the commissioner should be increased if possible. It is understood that the governor announced his preference for placing this office under the control of the board of regents at Manhattan, while the association referred to suggested that the commissioner should work under the direction of an appointed board which should serve without pay but with their expenses provided for. As no action has been taken by the legislature to change the present law, the governor has appointed a commissioner and his appointment has been confirmed by the senate. The office of live stock sanitary commissioner is one of the most important in the state of Kansas, and comes more closely in

touch with the people of the state than do most others. Vast sums of money are lost each year through the ravages of disease, and it is highly important that a man of great executive ability should be the incumbent of this position in order that he may cope successfully with the emergencies created by epidemics. His freedom from the influence of partisan politics seems to the breeders to be an essential element in his efficiency, and, whether the legislature will take any action or not, it must appeal to the judgment of all concerned that the recommendation of the governor to place this position under the direction of the Agricultural College authorities was a wise one.

FREE SEEDS.

The legislature of Kansas now in session has been as diligent in business as any other which the state ever had and, although some of their acts have been criticised, much useful and necessary legislation has already been enacted or is well under way. Among the good things which this legislature has done and which will be appreciated all over the state is the passing of a resolution instructing the senators and representatives in congress to use their influence to stop the very expensive and utterly useless distribution of free seed by the United States Department of Agriculture.

This free distribution of seeds had its origin when the department was young, and if it ever had any merit other than the hope that it would exert a political influence, it has certainly become obsolete through the changed conditions of today. The Secretary has repeatedly recommended in his annual report that the distribution of free seeds be abolished, and has shown how expensive and useless it is, but it has gone on until now, when the present active campaign against it may serve to put a stop to it.

STATE OWNERSHIP OF RESOURCES.

Gifford Pinchot, president of the National Conservation Association, writes KANSAS FARMER as follows: "For several years a movement has been afoot to turn the national forests over to the states. This movement is now alert, organized and active, and notice has been served in congress that it will be pushed. Behind this movement are interests like the water power combines, eager to get public resources into their own hands for their own unregulated use, and which see no other way of accomplishing this result except by the easy road of state ownership and administration. I look upon the danger of the transfer of the national forests to the states as decidedly the most serious that has confronted the conservation movement."

The letter calls special attention to the greatly increased cost, which would have to be borne by the taxpayers of the state, of maintaining many state forestry bureaus instead of one central office which does not now cost the taxpayers anything. Also the greater opportunities for fraud and graft in the management, by the states, of the national forests, the coal measures and water rights.

Not only the forests themselves, but the water flow which they conserve and the live stock which they pasture, are at stake, in the opinion of the writer.

The time limit for the introduction of bills other than committee and appropriation bills expired in both houses early this week. The remaining part of the legislative session will be utilized for hard work on the final passage or rejection of the bills already introduced. As has been stated in KANSAS FARMER, a sufficient number of bills have been submitted to the committees to keep the legislature in session all year. It is well known, however, that hundreds of the bills introduced are not worthy of consideration and will be killed and finally disposed of by the various committees. It is well, too, that this rapid method of execution is provided. Attempts have been made to place a time

limit on the session, March 1 having been mentioned as the date. The resolutions directed along this line have failed and it is altogether probable that the present body will remain in session so long as is necessary to perform those duties which seem most important.

MUCH NEEDED PUBLICATION.

A bill now before the legislature for consideration is one which provides for the publication of the annual proceedings of the Kansas Improved Stock Breeders' Association by the state printer. This association has been in existence for a good many years and has done a vast amount of good for the live stock interests of the state. Conditions have become such that Kansas never stood in need of the work of the live stock breeders so badly in all her history as at the present moment. All classes of live stock have decreased in numbers and our farms and fields are suffering because of this. Market conditions are such that the farmer who raises live stock will have a better, safer and more profitable source of income than he has ever before had.

Americans are meat eaters and they must be supplied with this vitally important element of food either from our own farms or from those of other countries. There can be no question that live stock industry opens up a great field for future operations on the farm, and any aid that can be rendered in the development of this great industry should be given. The first and best aid that can be rendered is in the publication of information which will show the inexperienced farmer how to profitably raise live stock on high-priced land. Such information is included in the proceedings of this association, and it is furnished by men who have become experts in animal husbandry. These proceedings should be in the hands of every farmer in the state.

THE STALLION BILL.

Another piece of good work by the legislature is the amending of the present stallion law to include some new features which the old law did not possess and to strengthen its weak points. Among these points that needed strengthening was the one which failed to give the registration board power to discriminate against fake record associations. The board had the power under the old law to accept registration papers issued by certain record associations, but it had no power to refuse recognition to those which were known to be fraudulent. Another point where the law has been strengthened is in the change in requirements in regard to renewal of licenses. It is quite necessary that the license be renewed from time to time, as the horse may have contracted some hereditary disease or another horse may have been substituted and used under the original license. One case in point was cited where a stallion was using a grade stallion under a license which had previously been granted for a pure-bred and registered stallion which he had then owned but which had since died. If there had been no provision made for a renewal of the license, such frauds could be very easily perpetrated and would be difficult of detection or punishment.

"Large milk flow with a moderately high per cent fat seems to be the aim of our wisest breeders in official test work, and that aim will in the long run win out every time," writes Malcolm H. Gardner.

Ever since the creation of the National Corn Exposition the state of Indiana has been the winner. Why?

Sugar beets, swedes or mangels are mighty good cattle feed in the winter until you get your silo built.

Cow testing has saved many a good cow from the butcher and many a poor one from the dairy herd.

NEW LEGISLATIVE SYSTEM.

It remained for Fred Voiland of Shawnee, who is serving his first term as a representative, to propose what seems to us a meritorious revision of the present legislative system. His resolution proposes to divide the legislative session into two parts. The first period would be one of ten days, in which time bills would be introduced and referred to standing committees. The members would then go home for forty days and return and consider the bills favorably reported.

In the interim the standing committees would be in session and would give careful consideration to the bills referred to them. The committees, by the way, would be made up jointly from the House and Senate. The committees, after a consideration of the bills and after listening to arguments opposed to and in favor of such bills, would prepare a report. In the second session the legislature would devote itself wholly to the consideration of the measures reported back by the committees. When the consideration of these reports was disposed of, the work of the legislature would be completed and the body adjourned.

During the interim the members would be at their homes and would have opportunity to discuss with their constituents bills introduced, and by this means the representative or senator would be closer than is possible at present to their constituents' ideas on the respective proposed laws. Information regarding these measures would have been obtained through the press in its discussion of the legislation pending.

The plan is not radical. It has much to commend it. We see no good reason why Kansas could not well afford to take this heretofore untried step and make a conscientious trial as to results. Kansas is in the lead in trying new things. She has undertaken the initiative in many almost unheard-of ventures which possessed small merit as compared with Voiland's idea. It is doubtful if the present body will regard the above suggestion of Representative Voiland at all seriously. The resolution, however, is a thing to which Kansas voters can well afford to devote some thought, and if the plan looks feasible, pointing to better legislation and a closer co-operation of legislator and constituents, with apparent attendant benefits, let us not forget but bring such influence as is necessary on some succeeding body to give the suggestion a trial.

It is certain under the present legislative practice in vogue in Kansas, as well as in all other states, that the large number of taxpayers concerned have too little to say and exert a small influence with reference to their law making. The suggestion of Mr. Voiland brings the making of laws closer to the people than any practical and workable suggestion heretofore made.

DRY FARMING CONGRESS.

As a reward for her enterprise in making an exhibit at the International Dry Farming Congress and Exposition last fall in Lethebridge, Alberta, Oklahoma has secured the congress for 1913. Secretary John T. Burns writes that the city of Tulsa, where the congress will be held, is now building an auditorium to cost \$125,000. Then there will be exhibition buildings with 150,000 feet of exhibit space, while the United States government and Canada will probably erect buildings at a cost of \$25,000 each.

Exhibits from Russia, China and Mexico are already assured. Thirty-two states and provinces and 15 foreign countries were represented at the last meeting and at least 100,000 people are expected for the 1913 meeting at Tulsa.

Kansas might have had this great meeting.

But another great cause of infertility is that the hens have had no variety in their food. They need meat and green food in addition to corn and wheat, to lay fertile eggs.

RATIONS FOR BROOD SOWS

Brood Sows Often Fed Like Other Sows When They Need Balanced Ration

By I. D. GRAHAM

CORN is at once the best and poorest hog feed known. If it is properly fed in connection with other feed stuffs there is nothing that can equal it for fattening and finishing. If it is fed alone it is about as poor a feed as could well be secured, and has barely the qualities to sustain life without making growth or flesh.

The accompanying picture shows in the most striking way the results that were obtained from feeding corn alone and from feeding a balanced ration. Of course this experiment, which was made at the Kansas Agricultural College, was for the purpose of demonstrating the value of a balanced ration in comparison with corn alone for market hogs, but the facts that are herewith developed will apply with added force to the brood sow.

The market hog needs a ration which will build him in size and flesh at the same time, as his value depends upon his weight at the time of marketing. In order to accomplish these results and at the same time build a bony structure of sufficient strength to maintain the weight which he is expected to carry, it is absolutely necessary that other feed materials shall be combined with the corn or substituted for it. The strength and quality of the bone are very important, as is also the condition of the digestive system. Any animal to thrive and do well must have a good bone foundation and his digestive apparatus must be kept in good condition. This applies with added emphasis to the brood sow for the reason that she must not only provide for her own physical well being but must take care of her litters as well.

The most important period of the pig's life occurs before weaning time. Prior to that time the pig is dependent upon the nourishment furnished by his dam and the care given by his owner. After that time he depends upon his owner entirely, and upon the care given will in turn depend the results which he is able to accomplish in the way of putting on flesh and building up frame. It is absolutely impossible for any pig to build the bone and muscle necessary for his future growth unless he has the proper building material, and these must be given him in such form that they can be readily assimilated without disturbing the digestive tract. Corn is a fattening feed, rich in oil but very deficient in protein and ash, both of which are vitally important to proper growth. The ash, about which the chemists talk in their analysis of feed stuffs, is the material of which bones are built. Corn is deficient in this, and weak bones are sure to result from a ration that is exclusively corn or nearly so. Corn does not have the right sort of ash material, nor does it have enough protein for a proper ration, and about one-half of the protein it does have is not available to the hog.

Those farmers who have been in the habit of feeding their hogs with a scoop shovel have come to recognize the fact that better results are obtained when the hog has pasture in the summer and alfalfa hay in the winter, though they may not understand why. It so happens that the combination of corn and alfalfa produces one of the best of balanced rations that has yet been discovered from among the crops that can be grown on the farm. Those who have carried their investigations a little farther find that a little more protein in some easily digestible form will add materially to the value of the ration either for the brood sow or for the fattening pen, and reduce the cost.

Practically the same ration can be used for the brood sow that is used for the fattening hog. The difference lies in the different use that is made of it by the animal. The age of the animal has more to do with the proper combination of feed stuffs than does the sex. For instance, a young gilt has been found to do very much better on a ration of 75 per cent corn and 25 per cent finely ground alfalfa, while the best ration for the old sow was 80 per cent corn and 20 per cent finely ground alfalfa. In the Iowa Experiment Station results the best gain in individual weight, the largest litters and the heaviest pigs with the smallest number of weaklings and the lowest cost for the pig at birth came from the use of ear corn and meat meal fed in the proportion of 4 pounds of meat meal to 30 pounds of corn. The next most satisfactory result came from a ration composed of ear corn and alfalfa in the rack, although this ration was

more expensive than the one including the meat meal. In the meat meal ration the pigs in the litter averaged 2.23 pounds, and 93 per cent of their number were very strong, 5 per cent medium, and 2 per cent runts. These pigs cost 22 cents apiece at birth, and they averaged 8.8 pigs per litter. The pigs which were produced by the sows fed on ear corn and alfalfa in a rack averaged 2.29 pounds per pig, with 89 per cent classed as strong, 8 per cent medium, and no runts. The litters averaged 7.6 pigs and the cost was 31 cents per pig at the time of birth.

From this it will be seen that, while the addition of meat meal or tankage in a proportion of 4 pounds to 30 pounds of corn produced the best and cheapest ration for brood sows, the ration of ear corn and alfalfa in the rack was very close to it in value, although costing

In the Iowa experiment referred to the sows under these tests were gilts and their growth was an important part of the problem of feeding. Those gilts which were fed corn and meat meal in the proportions named above made a daily gain of .635 pound; those which were fed on corn and alfalfa made a gain of .627; those fed on corn and clover hay only gained .528, while those fed on corn alone gained .354 pound per day.

The experimenters found that in order to know how to properly feed it was wise to know the composition of the pig, and the answer to the question, "What is a little pig made of?" brought the following answer, stated in terms of 100 pounds; that is, 100 pounds of little pigs would contain 81 pounds of water, 13 pounds of protein, 2 pounds of fat, and 4 pounds of ash. Now, this indicates that the brood sow must have plenty of

it is often true that the sow suffers more from lack of protein in the proper available form than she does from lack of lime. In the limestone regions of Kansas hogs may be able to pick up more or less lime and so reduce the difficulties which might arise from its total absence. Corn is rich in starch and carbohydrate nutritives, but is strikingly deficient in protein and lime. Corn has plenty of phosphorus, and what protein it does have is less efficient than the protein from meat products. A product that has already been built up into animal tissue, such as meat meal or tankage, contains all the necessary protein building material. This is the reason why these packing house products are so efficient in balancing up the corn ration. These by-products also contain considerable lime, phosphorus, sulphur, potassium, and other mineral elements which together make up the chemical analysis. It will, therefore, be apparent that it is necessary to add both protein and ash to a corn ration in order to make it effective.

There are other matters of consideration. As the element of bulk is important, for this reason oats may be added as being palatable and rich in protein. Another point of consideration has to do with sanitation, and one of the important elements in this is to keep the animals free from internal parasites as well as external ones. No man in raising hogs can afford to feed either lice or worms, and every man who would be successful must remember that humane care and treatment, with good feed and housing, are vitally important as spring approaches. Those who become puzzled over questions of balanced rations may easily solve the problem for themselves by keeping the hogs clean and healthy both inside and out and then feeding corn and alfalfa with milk where possible. The value of skimmed milk in hog feeding is not fully appreciated. Every hundred pounds of milk that can be fed in connection with corn is worth just one-half of the corn price per bushel. Good sense is worth a lot in hog feeding.

Hide Bound or Worms?

"I am having difficulty in fattening my horses, and wish to ask your advice. The horses show no signs of having worms except perhaps one. I believe they are hide bound, as their skins are almost as tight as a glove. They seem to have enough life but are not in as thrifty a condition as I would like. I keep them up at night and feed six or seven ears of corn or half a gallon of ground kafir twice a day to each. For roughage I feed kafir butts and silage. I have a recipe for hide bound condition but the medicine is to be given in the form of a ball which I cannot handle. Could you suggest some simpler remedy which could be given in the feed, or what else do you think might ail them? One of my mares is in foal."—W. M. SALISBURY, Route 1, Towanda, Kan.

This communication was referred to Dr. Geo. F. Babb of Topeka, who gives the following advice:

"I strongly suspect that your horses are infested with worms. The chief ones troubling horses are the so-called round worms.

"The best treatment for these worms in horses is a good purge following a fast of a day or two. The best purge is given in the form of a ball, but as you say that you find difficulty in administering such, you might try a quart of raw linseed oil into which has been shaken two ounces of oil of turpentine in a drench being careful not to strangle the animal as this will set up a fatal pneumonia. Do this twice, a week apart.

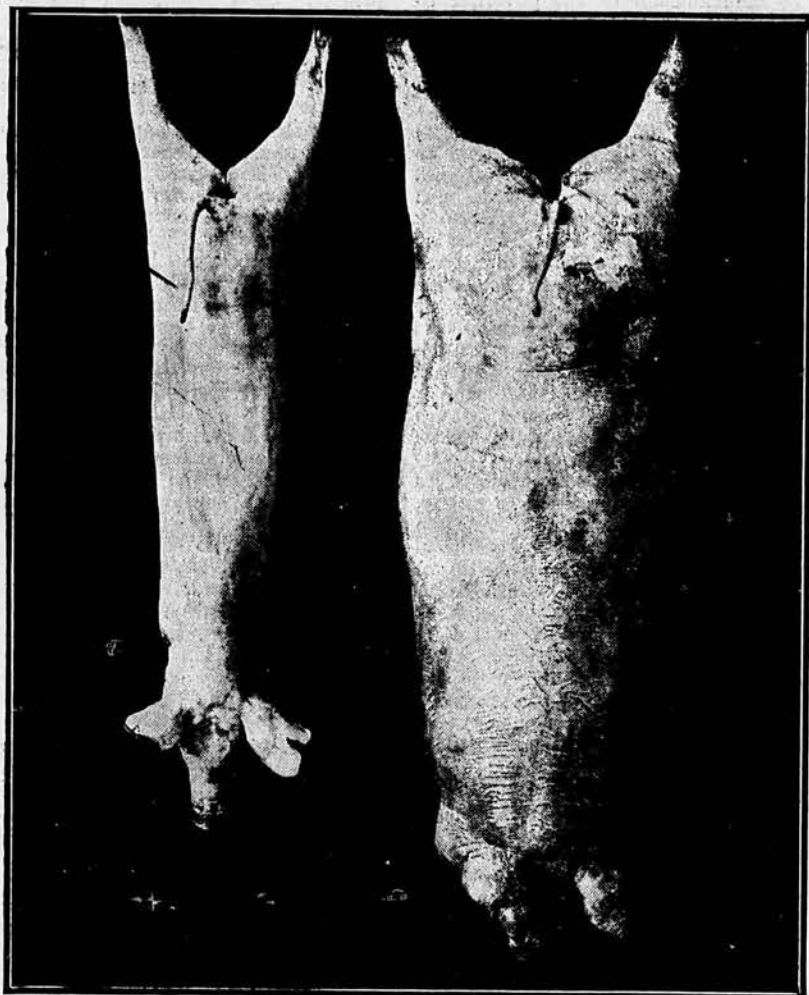
"Follow this with Fowler's solution on feed, say a little bran twice a day for a short period. Give one-half ounce of standard Fowler's solution to each horse. If your mare is near foaling I would hesitate about giving the oil purge."

Cause of Spavin.

A subscriber who does not sign his name but gives his address as Edwards county, asks that we name the causes of spavin.

First, hereditary predisposition; second, strain incidental to violent movements; third, by working colts when too young.

Have you all those repairs and fixtures done that you laid out to get finished before spring work opened up? Better get at them right now, if you haven't, for spring will soon be upon us.



THESE TWO HOGS WERE LITTER MATES.—SMALL HOG, FED IN DRY LOT ON CORN ALONE, GAINED 11 POUNDS IN 180 DAYS—LARGE HOG, FED ON CORN AND ALFALFA PASTURE 80 DAYS, AND ON CORN AND ALFALFA HAY IN DRY LOT FOR 100 DAYS, GAINED 158 POUNDS.

considerably more. Now compare these results with those obtained from feeding the sows corn alone. Those sows which were fed corn alone produced pigs weighing an average of 1.74 pounds each. Only 68 per cent of these were classed as strong; 16 per cent medium, and 16 per cent as weaklings. The number of pigs per litter was 7.6, and the cost per pig at time of birth was 41 cents each, or 10 cents each more than the corn and alfalfa pigs, and nearly double the cost of the corn and tankage pig. Almost as good results were obtained from feeding ear corn and clover in the rack as were obtained from corn and alfalfa in the rack. The pigs weighed a little less, had more weak members of the litter, and smaller litters, though the cost was also small.

It has been proved over and over again that there has been nothing found in the way of solid feed that will equal tankage or meat meal as a supplementary feed when balancing a corn ration. It is recommended that when tankage is used, that which contains the high protein content should be selected as being much more economical and insuring better results, although the original cost is a little higher. Tankage containing 60 per cent of protein is a great deal more valuable in every way than that which contains 40 per cent, and more than pays for the difference in cost.

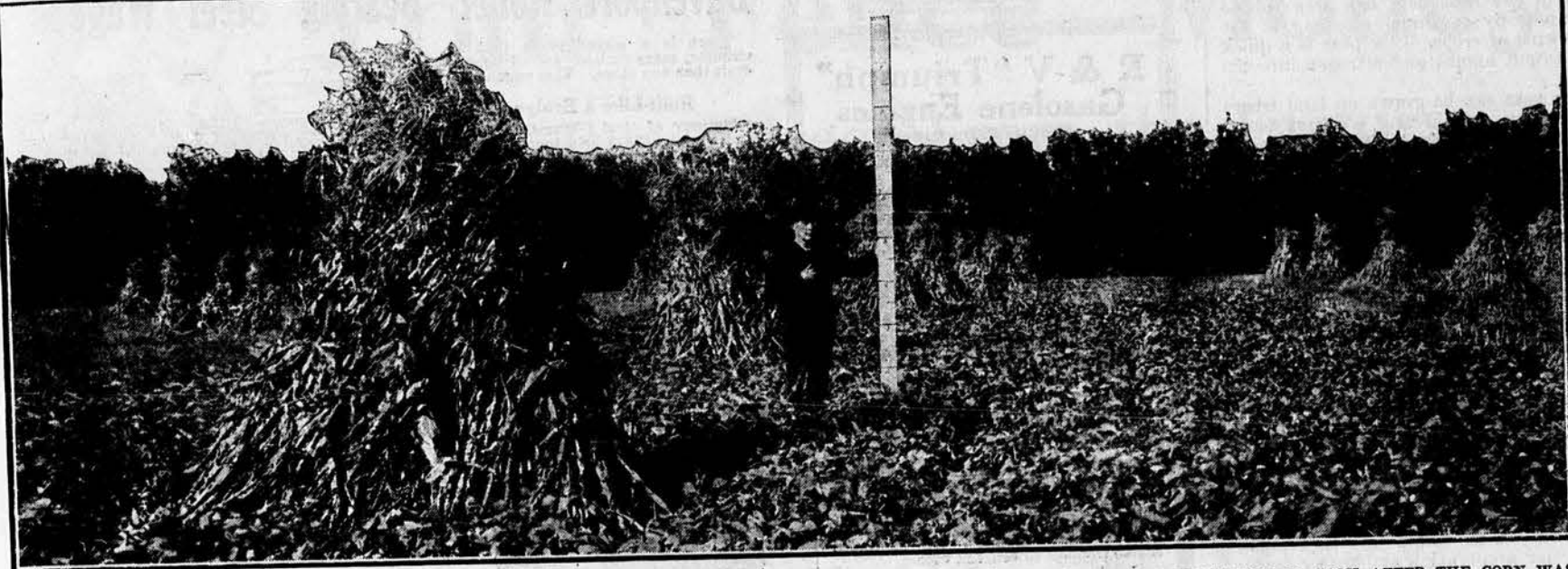
The amount of protein shown in the analysis demands that there shall be a suitable amount of protein in the ration fed to the sow for the development of the pig. If the dam be a young gilt, her growth and development must also be included in the calculation. The small amount of fat shown in the analysis explains one reason why corn is not a desirable feed when used alone, and the comparatively large amount of ash hints at the reason why special attention should be given to the bone building element in the ration.

As about 40 per cent of the dry matter of bone is lime, and as corn is deficient in this mineral, only a little investigation is necessary to show that corn contains only about .15 of a pound of calcium or lime in 1,000 pounds of corn. In order to secure enough lime to meet the needs of the sow and her litter prior to the time of their birth, it would be necessary for the sow to eat nearly 14 pounds of corn per day. This, of course, would be an impossible feed, as no sow could eat that much, digest and assimilate it; and if she is fed on corn alone her pigs must go without the necessary amount of lime for building their bone structure, and hence are sure to be weaklings.

As most feed stuffs which are available to the sow on the average farm do contain more or less of mineral matter,

GENERAL FARM INQUIRIES

Something For Every Farm—Overflow Items From Other Departments



COW PEAS IN CORN STUBBLE AT THE KANSAS EXPERIMENT STATION. THE PEAS WERE PLANTED IN THE CORN AT THE LAST CULTIVATION OR SOON AFTER THE CORN WAS LAID BY. THIS GROWTH WAS ATTAINED BY THE MIDDLE OF SEPTEMBER, WHEN THE CORN WAS PUT IN SHOCK. PEAS PLANTED IN THIS WAY MAY BE PASTURED OR PLOWED UNDER FOR GREEN MANURE. MANY VINES WERE CUT OFF WITH THE CORN AND ARE IN THE FODDER. SEE ARTICLE ON THE COW PEA IN THIS ISSUE OF KANSAS FARMER.

I FIND some points in favor of Kafir for silage: Kafir is the surest crop. It will curl up when it gets hot and dry and then revive and make a fair crop when corn is past help. Kafir, unless it is literally cooked by hot winds, stays green until frost, thereby giving more time to put in the silo.

Of course there is a proper time, that isn't very long, when it is best to put Kafir in the silo but as it is often impossible to get everything done at the proper time, we have the assurance that Kafir will give us more days of grace than any other plant.

On account of its great drouth resisting qualities it is safe to plant Kafir thicker than corn and so I think a silo can be filled with less acres of Kafir than corn. I haven't tried corn, so it is only my opinion regarding the number of acres, but I think this assumption is correct at least for upland.

I find one fault in Kafir in that some of the seed pass through the cattle, but I think this is due—partly at least—to the fact that I filled my silos when the leaves were dry nearly half way up and didn't know that I should put water in it when filling, so my silage is a little too dry. I am satisfied that if it were more succulent it would aid digestion.

While I believe corn makes somewhat better silage than Kafir, yet I believe the points in favor of Kafir outweigh the difference in quality enough to make Kafir the more desirable for the silage crop.

Considering the amount of dry fodder that blows away, what the cattle refuse to eat when it is wet, and the large part of the plant that they won't eat, no matter how good condition it is in, it is probably safe to say that one-third of the plant is as much as they really eat. In silage they not only eat the entire plant but they get it in a form as nearly like that in which nature hands it to them as is possible. While the part of the plant which cattle eat in silage that they do not eat in dry fodder is not as high in feeding value as the rest of the plant, yet the entire plant is served in a form which more than balances the difference in the feeding value, so I think one is safe in saying that a patch of corn or Kafir will be worth three times as much by way of the silo as by the other way.

Thirty acres of Kafir filled my two 16x36 silos. These two silos will feed 80 cattle for six months. I have fed over 60 acres of dry fodder this year already, and I know that I haven't got as much feed out of it as one of the silos is making.—WM. L. MEUSER, Anson, Kan.

Troublesome Division Hedge Fence.

Subscriber, Wallula, Kan., asks: "What is the Kansas law regarding hedge fences between adjoining farms when owners reside on the farms? In this instance the hedge fence is old and large and has not been trimmed for twenty years and it interferes with growing

crops by shading and sapping the moisture from the ground."

A search of an hour through the General Statutes of Kansas, fails to reveal any law whereby the owner of a farm affected as above stated by a large hedge, has any redress. The law describes legal fences of the various constructions. A legal hedge fence is one planted with Osage Orange plants not less than a year old, the plants six feet apart and shall be of such height and thickness as is sufficient to protect the field or enclosure. The law further provides that after planting the hedge shall be cultivated to a distance of ten feet on each side of the fence and under such treatment it is supposed that the newly planted hedge will develop into a fence protecting the field from trespass.

Section 3741 of the General Statutes, has to do with controversy between respective owners in partition fences. The law says: "When any controversy shall arise about the rights of the respective owners in partition fences or their obligations to keep up and maintain the same in good repair, and if they cannot agree among themselves, either party may apply to the fence viewers of the township in which fence shall be situated, who, after a reasonable notice to the other party, shall proceed on application as aforesaid, to view such fence and assign to each party in writing, his equal share or part in such partition fence to be by him kept up and maintained in good repair, which assignment shall be recorded by the register of deeds of the county in a book to be provided for that purpose and shall be final, conclusive, and binding upon the parties and upon all succeeding occupants of the land, and they shall be obliged thereafter to maintain their respective portions of said fence."

The fence viewers are the trustee, clerk and treasurer in each township, any two of whom shall be empowered to act.

We recommend that our subscriber, before taking any legal action, consult an attorney. In giving information of the above character, KANSAS FARMER cannot assume the responsibility of interpreting the law.

Oklahoma Silo Experience.

My experience and ideas with the silo and in feeding silage to cattle, horses and mules may prove interesting to your readers.

Any person owning a farm or having leased or rented land for three or more years should have a silo.

I erected my silo in June, 1911. My corn was already gone so far as the ears counted, and was burned to a crisp. I was disheartened, of course, but I thought to fill my silo with the stalks might pay me for my trouble. I commenced putting these stalks in and one-fourth were as dry as a bone. These, of course, I threw out, but the stalks that had any sap at all in them I let go in.

Corn being a complete failure and hay making scarcely anything, feed was

In November, 1911, I had on hand 73 just about out of the question with us. head of cattle, 4 mules and 4 head of horses to feed. I commenced feeding November 3. I began feeding my cows 5 pounds of silage and half pound of cottonseed meal. This I increased until I was feeding 30 pounds of silage and 5 pounds of cottonseed meal. These cows did well on this feed.

I fed my mules and horses one-quarter pound of cottonseed meal, one quart corn chop, and 10 pounds of silage twice daily. I kept up this ration for my horses and mules as long as my silage lasted, or until about February 15, 1912. They did better on this ration than they did on corn, hay, bran and corn chop later.

I figure that my silage cost me \$1.70 per ton and its value to me at that time was at least \$7 per ton.

There is no kind of corn or Kafir fodder that can compare with silage from these same forages.

The corn I put in my silo had not been planted specially for silage, but regardless of the manner in which it was planted, I was the silage ahead, for it would not have made three bushels of corn to the acre. The yield was about 7 tons of silage to the acre and while the parched stalks did not make silage of the best quality, they made a good feed and a feed that I sorely needed.

The silo has come to stay and the man who has no silo cannot hope to compete with the man of equal intelligence who has a silo and uses it in feeding for dairying or general stock raising. I say by all means get a silo. Let's all get silos and help ourselves and our neighbors as well.—COLEMAN J. WARD, Thacker, Okla.

Rearing Calf Without Milk.

Subscriber L. J. M., Wilson, Kan., writes: I have a two-weeks-old calf which I have been feeding tea made from alfalfa hay. I have no milk to feed it. What can I feed better than the tea. What should I give it for the scours?

There is virtue in alfalfa tea, but we know there is a better remedy of feeding this calf. Obtain, if possible, some ground flaxseed. Boil this into a mush and feed a pint twice per day, dissolved in a half gallon of water at blood temperature. Do not have the water cold one day and warm the next. Maintain as even temperature as possible. Feed from an absolutely clean pail.

Give the calf every opportunity to learn to eat a little corn chop or Kafir meal. At two to three weeks of age, if given a chance, it should be eating three or four double handfuls of meal per day. Teach the calf to eat meal by placing a little of the dry meal in its mouth, then giving it a chance to eat out of the box or trough. Also give the calf a chance to eat some bright prairie hay, alfalfa hay or corn or Kafir fodder. Any bright, appetizing roughage will appeal to it although, of course, it will eat it only in small quantities.

Keep the calf's quarters clean and dry.

This is as necessary as feed. Let it be exposed to the sun but out of the cold, raw winds.

If the ground flaxseed cannot be obtained linseed meal may be used in the same way. There are advertised in KANSAS FARMER calf meals which are satisfactory substitutes for milk.

Scours in ninety-nine of every one hundred instances are due to digestive derangements, improper feeding, dirty pails and dirty quarters. Kafir chop offsets the laxative effects of skim milk and the flaxseed or linseed meal, and will prevent scours except as digestive apparatus may be responsible therefor. Until the digestive apparatus is in a normal condition there is no permanent remedy for scours. It would not be amiss, however, to feed your calf a half pint of lime water two or three times per week as a preventive. Lime water is good for the digestion.

If the calf should have scours "white scours," the discharges are white, sour, curdled, and frequent, and become watery greenish, and extremely offensive. The calf rapidly loses flesh and eventually dies. A clean, dry bed is a part of the essential treatment for this. Avoid dirty, dark, damp, poorly ventilated pens. Do not feed out of dirty vessels. Feed small quantities of food and often. At the first indication give six teaspoonfuls of castor oil in the milk. Follow two or three times daily with one to two teaspoonfuls of a mixture of one part salol and two parts of subnitrate of bismuth in the liquid feed.

Cream Difficult to Churn.

Subscriber, J. T. S., Cottonwood Falls, Kan., writes: "Tell us what is the matter with our cream when we have such a hard time to churn it. Sometimes it takes several hours to churn."

Cream should be churned at a temperature of 60 degrees in winter and 55 degrees in summer. The cream should be kept at this temperature or slightly below for at least three hours before churning. This, so that the butter fat may become as cool as the liquid portion of the cream. The only other consideration is that the cream is sufficiently ripe and is really ready for churning. Experience is the best teacher for this determination. Under average farm conditions it is not practical to use the acid test. Usually the taste is depended upon. The cream should be sharply acid but not bitter. The cream should be 25 to 35 per cent fat. Either thinner or thicker cream is more difficult to churn. There is sometimes a feed condition which makes cream more or less difficult to churn. We cannot pass on this since the subscriber says nothing about his feeding methods. Generally speaking, the higher the temperature at which the cream is churned, the shorter the churning time required. Usually high temperatures, however, result in loss of butter fat in the buttermilk and of course results in softer butter. A little experimentation in the face of the above information will overcome the subscriber's difficulty.

Cow Peas For Kansas

BY J. MONCRIEF, WINFIELD, KANSAS.

I MUST give you my observation regarding the use of cow peas in this (Cowley) county during the past two years.

We have found the value of cow peas to the land as a fertilizer equal to about 30 loads of manure to the acre. We further find in our nursery work that most of the land here has been robbed of humus by continual cropping of the same kind of crops. Cow peas is a quick way to put humus and nitrogen into the soil.

Cow peas can be grown on land where alfalfa does not thrive. We have found it as valuable as alfalfa hay for feeding stock of all kinds. We believe if a large enough acreage was planted in Cowley County to justify the purchasing of a regular pea huller, that the profit from growing the crop for seed alone would be equal if not better than any other agricultural crop that could be grown here—possibly excepting alfalfa, and we are not sure but what it might even beat that. But we do feel sure that on upland the cow pea would beat the alfalfa altogether.

This crop can be planted later in the spring than most any other agricultural crop, which would enable the farmer to plant this crop on any ground that he may have left after it is too late to plant other crops, or to distribute his work over a longer period in the planting time, which would enable him to give better preparation and better methods of planting to his other crops.

Our experience has been that the broadcast sowing is a failure in this county—that the peas should be drilled in. We use a wheat drill with every second hole stopped up, and then give the peas two cultivations by taking the shovel off of each side of our cultivator.

By drilling the peas in there is sufficient moisture in the ground to start them, so that you get a good stand, and they are almost sure to make a crop, regardless of drouth, by giving them two cultivations. Our experience is that we can grow on this ground from 15 to 20 bushels to the acre.

George Cole, north of Winfield, advises us that he drilled them in his oats stubble last year after harvest, and that they made a yield of 10 bushels to the acre.

On account of the roots gathering and storing up the nitrogen in the soil the crop is of great value as a fertilizer, even though you do not plow it under, but cut it off for hay, or for the purpose of threshing the seed, and where you thresh the seed the straw that is left is very valuable for feeding.

Below we give questions which we asked D. Yoder, of Yoder, Kan., with his answers to same. Mr. Yoder is in a section where they have been making money and improving their land by the cow pea culture. You will note Mr. Yoder recommends the Crowder variety as best. We have had no experience with that variety here, but have found the New Era the best seed. However, we shall try some of the Crowder next year, and should recommend that others do likewise. If these suggestions meet with the favorable consideration of the farmers of Cowley County, and they desire to go into the cow pea culture, even in a limited way, we shall be glad to co-operate with them in procuring the seed for them in a club order, furnishing it to them at cost. We should like to see sufficient acreage planted out in this county this year to justify the bringing into the county by someone running a threshing machine a regular pea huller, as the peas are cracked to a certain extent by being threshed in a threshing machine.

Q. What variety have you found most profitable?

A. The Crowder.

Q. What amount do you plant per acre?

A. One bushel will plant three or four acres.

Q. What method of planting do you find the best?

A. Two-row corn planter, or one-horse drill, or lister.

Q. What average do you find can be realized per acre?

A. I have raised as much as 23½ bushels to the acre of the Crowder, while the same year the Whippoorwill made only 19½ bushels per acre.

Q. What time of year have you found best to sow the seed?

A. From June 10 until the last of July.

Q. What is the price of a huller built especially for threshing the seed?

A. All the way from \$50 to \$500 and \$600.

A. What amount would you estimate

could be made per acre on good first-class land, growing cow peas?

A. I have made as much as \$67 per acre, while on an average I make from \$30 to \$40.

Q. What do you think of the assurance for a crop, compared with the growing of a corn or oats crop?

A. About the same.

Experience Results to Be Reported.

People learn from failures as well as from successes. It is possible to learn as much from a failure as from a success. The Kansas Experiment Station results are to be given to the public even in case of a failure or in case the experiment did not result as was anticipated. This is another step toward marking the experiment station a practical thing.

John Deere Implements

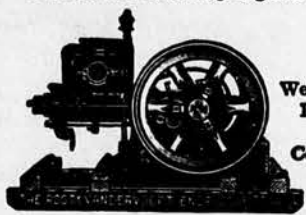


R & V "Triumph" Gasolene Engines

Popular Farm Power

Develop even more than rated horsepower.

Easily started, smooth-running, dependable. Economical in use of fuel. Speed easily increased or decreased. Best type of magneto on the market. Portable and stationary engines.



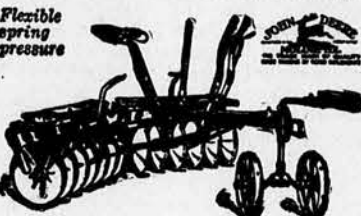
Light Well Built Durable Neat Compact

R & V "Triumph" Engines can be furnished in sizes 1 to 12-hp., with the hopper-cooling system. This cooling system does away with tank, pump, piping and fittings, making a neat, compact engine noted for its good working qualities. No air-cooled engine troubles to contend with.



Letting Gasolene Do It tells you about the convenience and money-saving points of a gasolene engine. Get this book and see how you can make your work easier. Lower left-hand corner of advertisement tells you how "to get these books."

John Deere Disc Harrows



Is the only spring-pressure harrow, and, therefore, only flexible harrow built. Spring-pressure secures greater penetrating power and more thorough cultivation. Instant leveling for all conditions enables operator to keep all discs cutting an even depth. High, solid steel gang frames make it extra stiff and strong, and give extra clearance.



Bigger Crops from Better Seed Beds Tells you how to prepare your seed beds for a bigger and better crop yield. You'll profit by reading this interesting little booklet. Lower left-hand corner of ad. tells you how "to get these books."

Better Farm Implements and How to Use Them



Illustrates and describes the most complete line of farm implements. Tells how to adjust and use them under varying conditions. It has a practical encyclopedia for the farm, and is worth dollars to you.

To Get These Books Write to us at once stating which books you want, and they will be mailed free. To be sure that you get a copy of "Better Farm Implements and How to Use Them" ask us for Package No. X \$3

Davenport Roller Bearing Steel Wagons

There is a wagon made that is stronger, more durable and of lighter draft than any other. This wagon is

Built Like a Bridge

Entirely of steel I-beams, channels and angles, solidly held together with large steel rivets, put in hot under great pressure.

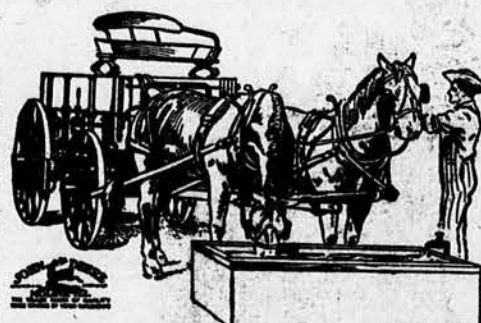
Like the steel railway bridge, it is constructed for hardest lifetime service. Strong and durable.

Each front gear and each rear gear is practically one solid piece that can not come loose or apart.

Steel Wheels

This wagon has steel wheels that are trussed and made with a tension, the strongest known wheel construction. Every spoke is staggered and forged hot into the tire.

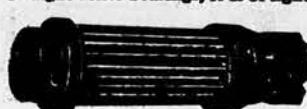
Regardless as to whether the spoke is at the top, side or bottom of the wheel, it always carries its share of the load. Wheels on a Davenport wagon will stand up and work indefinitely.



Roller Bearings

That roller bearings reduce draft is generally conceded. Of the various styles, the straight roller bearing is the simplest and most successful. They are practically everlasting. For this wagon, the straight roller bearing is especially adapted.

The spindles and hubs are straight. Consequently, as this wagon is equipped with straight roller bearings, it is of light draft.



The Roller Bearing

When the Going is Hard is the title of an interesting little booklet on the wagon question. It contains twenty-six of the best articles on wagons that have been written. See lower left-hand corner of this advertisement for how "to get these books."



Aspinwall Potato Planter



The Leading Potato Planter in All Potato Growing Sections

Accuracy in a Potato Planter is the prime essential. This is found in the Aspinwall Planter—a machine that is staunchly built, will do good work and is easily handled.

CONVENIENTLY OPERATED

Both feed and coverer tension are regulated from the seat. No removal of bolts—simply turning the thumbscrew does the work.

All parts are thrown in and out of gear automatically when lowering the plow for work or raising it at the end of each row.

This machine plants a greater range of seed, as to size and shape, does it easier and with less friction and wear, than any planter of its kind.

DOUBLE ROW PLANTER

A double row machine is made with extra large hopper capacity.

Either single or double row planters may be equipped with fertilizer attachment.

The Aspinwall is absolutely the only machine that will plant potatoes of any size without adjustments.



The Potato Suggestions from those making a study of the crop. How to rid the plant of insects; how to plant potatoes; the care of the crop, and how to dig them. You will find it a great help in making your potato crop. Lower left-hand corner of ad. tells you how "to get these books."

Dunham Roller-Bearing Land Rollers and Pulverizers

All Steel Land Roller Three Sections



Dunham Land Rollers, Packers, Pulverizers, and Sub-Surface Packers are made for every purpose and all soil conditions. Only first-class material enters into their construction and they do good work even under the most adverse conditions.

Light Draft—Roller Bearings

The Dunham Pulverizers, Packers and Rollers are the only ones today equipped with Roller Bearings. The bearings revolve in the end bracket casting and the axle in turn revolves within the bearing. All bearings furnished with hard grease cups.

Dirt proof caps fit snugly into the shoulder on the end bracket castings, completely covering the end of the axle and making the roller bearing construction absolutely dirt-proof.

Do Good Work

Dunham Land Rollers and Pulverizers will break up the lumps, smooth off the field and give a perfect foundation for a full even growing crop.

Absolutely Dirt-proof

Runs 44 per cent easier than others



Roller Bearing Construction

The Roller Bearing Dunham A Little Book

that will be a great help to you in preparing your land for seed this spring. It contains suggestions from experienced men on the proper preparation of the land for the seed, and you will profit by getting this book. Lower left-hand corner of ad. tells you how "to get these books."



John Deere Plow Company

Moline, Illinois

For instance, an experiment is now being started to determine what it costs to keep calves through the winter. W. A. Cochel, head of the department of animal husbandry has a number of high grade Hereford calves bred by C. A. Johnson of Russell. These calves cost \$32 a head. They are now eight and nine or ten months old. Heretofore they have been eating waste material in the fields. One lot now is receiving all the Kafir silage the animals will eat, and one-half pound of cottonseed meal. Of this they will eat about 20 pounds each. Another lot receives cane silage and cottonseed meal; another, corn silage, and another alfalfa hay and corn silage. Still another lot gets corn stover and alfalfa hay. The calves will be turned out next summer to grass without grain, to see what effects are obtained with the different

kinds of wintering. There are ten calves in each lot. They are fed in an open shed in an open lot but the feed boxes are made with solid backs of board so that they serve also as windbreaks. Careful records are to be kept of the performances of all the lots.

Official Tests of Dairy Cows.

Last week representatives of the dairy department of Kansas Agricultural College tested for official records cows for the following Kansas owners. A herd of forty-five Jersey cows owned by R. J. Linscott, at Holton; a herd of twenty Holsteins and Dutch Belted cows owned by M. P. Knudsen, at Concordia; and Holsteins for F. J. Searles, Oskaloosa; F. A. Hornbeck at Lenexa; F. B. Cowles at Topeka, and E. H. Emery at Wetmore.



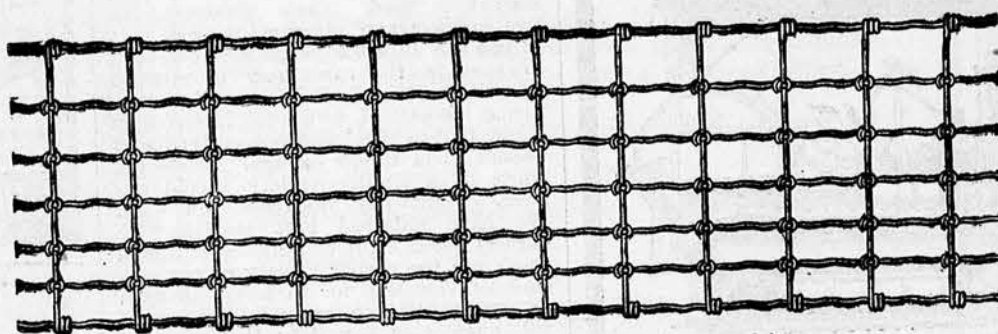
Save One-Half of Your Fence Money

Buy Direct From the Factory

Don't pay dealers and middlemen 50 to 100 per cent extra for fence. Buy direct from the factory and get **better** fence, and **save 5c to 20c a rod**.

I'll sell you one rod or ten thousand and **guarantee** you lower prices than any dealer or mail order man in the country. Only one profit—that's the secret—direct from the factory to you. We buy wire by the train load when the market is at the lowest point and give our customers the benefit of the saving. Our fence today ready to ship is costing us less than other factories are paying **for the wire alone**.

Look at This?



17 $\frac{1}{4}$ c

6 $\frac{3}{4}$ Inch Mesh, 26 Inches High

Compare that with what your dealer and catalog houses ask you, 30c, 32 $\frac{1}{4}$ c, 36c for, and mind you every foot of Ottawa fence is sold under a **positive, iron-clad, money back guarantee**. If you don't like it **better** than your money—if **anything** you buy of us is not the **best value you ever saw** for the money, **send it back** and we return your money by first mail. Ottawa fence is made from the highest grade of hard, tough, springy wire, **thoroughly galvanized, warranted to stand weather conditions anywhere**.

GUARANTEED TO HOLD

The Ottawa non-slip tie is guaranteed to hold under any and all conditions. It is made by my own patented process, and I know what it will do. If it **ever slips or sags** the least fraction of an inch, take it down, roll it up and send it back—I'll gladly return your money. I've made this same guarantee for years, and not a single rod has ever been returned. The Ottawa Tie **holds forever**.

Here Are Some Price Smashers

| | | |
|---|---|---|
| 18-inch hog fence.....11 $\frac{1}{2}$ c. rod | 48-inch poultry fence ...24 $\frac{1}{4}$ c rod | 42-inch heavy field fence.....23.9c rod |
| 24-inch " "14 $\frac{1}{4}$ c rod | 60-inch " "27 $\frac{1}{4}$ c rod | 50-inch " hog "26 $\frac{1}{4}$ c rod |

Big Fence Catalog **FREE**

If you want to buy fence, gates, windmills, stock tanks, pumps, or gasoline engines (1 $\frac{1}{2}$ to 12-H. P.) at wholesale prices—cheaper than you can any other place in the country, write me today for our complete four-color catalog. It tells you all about our big factory line—saves you \$20.00 to \$100.00 every year. We make 78 different styles of fence, every kind on the market, 54 different gates—and gasoline engines at prices so low that you can't afford to be without one. Get this catalog. It's a **money saver**. Write for it today sure. Use the coupon, letter, or postal.

GEO. E. LONG, Gen'l Mgr.
OTTAWA MFG. CO.
 529 King St., Ottawa, Kansas

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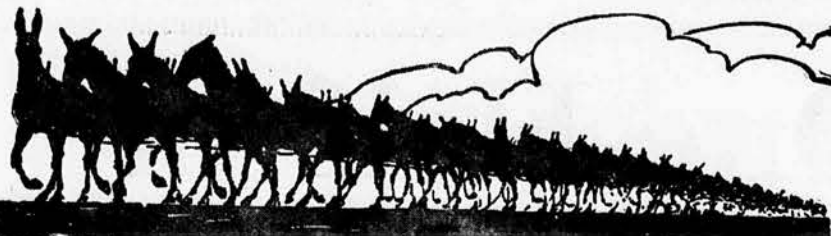
GEO. E. LONG, General Manager,
Ottawa Manufacturing Co.
 529 King St., Ottawa, Kansas.

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Cannot compare with that of a Caterpillar on any land that can be cultivated. Caterpillar-power costs less than horse-power and does better work.

HOLT CATERPILLAR TRACTOR

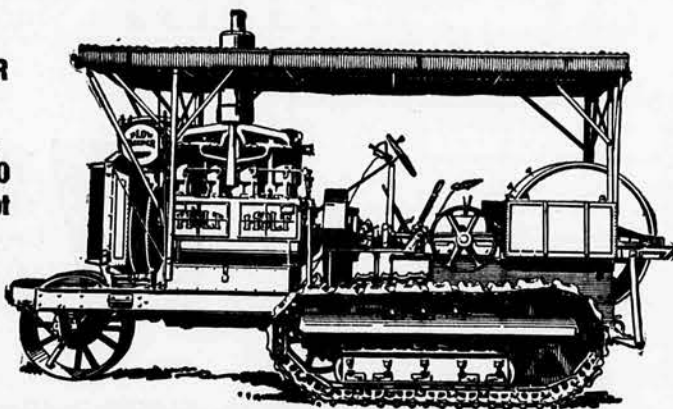
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Does not run on the ground, but on a steel track which it lays and picks up as it travels. This makes it independent of surface condition. The big bearing surface of the track (from 2,500 to 4,000 sq. in. according to width) gives unequalled tractive power, yet has a pressure per square inch less than that of a horse's tread. That's why the Caterpillar has a grip that cannot slip and works successfully, independent of the weather, on wet, swampy or sandy soils. There are no wheels to slip or mire. This is the only engine that can be used successfully for seeding and harrowing on plowed land without packing the soil.

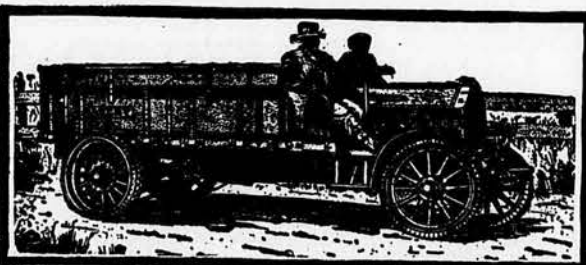
The long track will bridge over a three-foot ditch. The Caterpillar can be turned in its own length, handling as easily as a team.

It is perfectly adaptable to all farm work from plowing to harvesting, clearing land of trees and stumps, etc. Send for Catalog F-16.

**HOLT
CATERPILLAR
CO.,**
Peoria, Ill.
New York, 50
Church Street



It has no wheels to slip and pack; But lays and travels on a track.



"My Avery Farm Truck is Doing the Work of 3 Teams and 3 Men at Cost of 1 Man and 1 Horse"

That's what one Avery Farm Truck owner writes about the work his Truck is doing. Others are having similar results. No wonder men are selling their horses and getting Avery Farm Trucks to do their hauling and other work. Just think what an Avery Farm Truck does. It hauls 3 tons on its own bed and will also pull a loaded wagon behind. Travels at speeds of from 2 to 12 miles per hour.

Avery Trucks are being used for hauling grain, hogs, sheep, lumber, coal, sand, gravel, crushed rock, milk and cream, fruit and vegetables, flour and other farm and manufactured products. They are money and time savers.

Have special cast steel rim wheels designed particularly for hauling on country roads. No tire expense as with rubber tires.

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Farm Truck**

Plow More in a Day

Divide the pull evenly between your horses and make plowing easy. Gamble Equalizers give each horse exactly the same share of work—make plow teams easy to manage—make your work easier—drive one horse in furrow and three on unplowed ground. No worry—no trouble—no pulling out of the furrow—no chance for tugs to injure horses. Give direct pull—Guarantee no side draft.

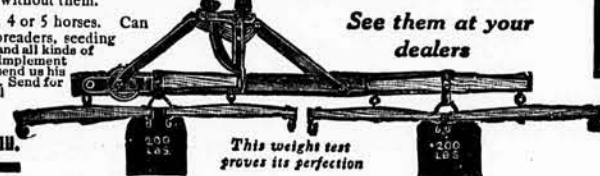
The Gamble 4-horse Equalizer works 4 horses abreast to gang plow with one horse in the furrow and 3 on unplowed ground. Equalizer in illustration evens pull on 16, 18 and 20-inch sulkies with clevis hitch and 12 and 14-inch disc gangs. Also on disc sulkies and 12 and 14-inch gangs having wide draw head.

Gamble Equalizers Guaranteed

to give perfect satisfaction and work as we say or money refunded. There is only one genuine Gamble Equalizer fully protected by patents—no others like them. Get the best. Do not accept a substitute. Cost so little you can't afford to be without them.

Gamble Equalizers made for 3, 4 or 5 horses. Can be used on farm wagons, manure spreaders, seeding and harvesting machines, hay loaders and all kinds of mows and harrows. See them at your Implement Dealer's. If he does not handle them, send us his name—we will see that you are supplied. Send for FREE illustrated catalog showing full line of GAMBLE EQUALIZERS.

STAR MANUFACTURING CO.
Dept. K. F. 23, Carpentersville, Ill.



This weight test proves its perfection

Cow Peas Planted in Corn

BY LAUDE & SON, ROSE, KANSAS.

IN YOUR issue of February 8—replying to subscriber, Haddam, Kan.—you state that corn and cowpeas cannot be successfully grown if planted at the same time, and recommend planting peas at time of last cultivating. This is correct if the corn is planted early and an early variety of cowpeas used. But for fodder or silage they can be planted together with marked success.

It is well known that corn planted the last ten days in May on well prepared ground will make more and better forage than if planted earlier and will generally produce about as much corn.

Corn planted at this time will make a very rapid growth, but as it is still a little early for cowpeas they will not grow so rapidly, giving corn a chance to get a good start. If you want to plant, cultivate and harvest corn and cowpeas together with just the same labor involved as in the handling of corn alone, and succeed in the majority of cases, proceed as follows:

Double disk your ground in spring, lapping the disk half which should be set to cut deeply. Weight it if possible. This is best done by April 15. A good crop of weeds and grass will then start—which should be plowed under eight or nine inches deep as nearly just before planting as possible. This planting on freshly plowed ground is important. I suppose seed could be planted mixed, but it can be much better done if one of the combination planters now on the market is used. These planters have two hoppers and planters on each side so you can adjust to plant both corn and cowpeas in the same row in relative quantities desired. Take a medium maturing variety of corn—not late, for it might be too slow, and not early, for it doesn't yield forage enough. Boone Co. white or a similar variety should answer. Plant any thickness you wish. We have obtained best results with kernels about eight or nine inches apart. Don't use the earlier variety of cowpeas such as New Era, for these are 10 days to two weeks too early. Whipporwill will answer or a variety that matures slightly later might be even better. Set the cowpea planter to drop one pea for every kernel of corn. Cultivate as usual and cut with a corn binder, and use the crop either in shock or as you see fit. If put in shock it might be best to let cure some—say a day—before shocking. If, however, your plan of putting in the peas at time of last cultivation is pursued, the New Era pea is the best variety, as they have proven to be in this section for anything except planting with corn. We have raised from 10 to 40 acres of cowpeas annually for the last 10 or 12 years, and nothing does as well as the New Era.

Kafir corn in any ordinary season will starve peas to death if planted at last cultivation—and planting together has not proven practical here. We have tried it and consider it a failure.

Kafir and Cane Silage Tests.

Most persons have supposed corn to be the only material with which to make silage. If this were true, which some doubted, a large economic waste would continue, for kafir and cane, or saccharine sorghum were easy to grow and ought to be used.

So someone made silage from kafir and cane. It seemed to be satisfactory, but the college authorities wish to prove just how valuable it is in this form. Therefore the dairy department by direction of W. M. Jardine, acting director of the experiment station, has started an experiment to get these facts into the record. Professor O. E. Reed, head of the dairy department, has eighteen cows assigned to the trial. There are three groups of six cows each. These six are divided this way: Three Holsteins, one Ayrshire, one Guernsey and one Jersey.

One of the lots will be used to compare corn and kafir; one to compare corn and cane, or saccharine sorghum, and one lot for kafir and cane. In addition to the silage the cows will receive alfalfa hay and grain ration. The hay and grain remain the same always; only the silage is changed.

The cows in an experiment, last year, gained in live weight when they were changed from corn to cane sorghum, and they lost weight when put back on corn silage. The present experiment is intended to confirm those results. Of course all the feed is weighed carefully in every experiment. The milk, also, is weighed and analyzed for butter fat and other properties. A definite report will be made public about May 1.

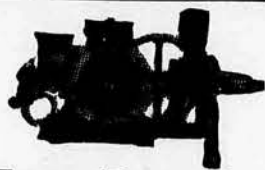
For rough roads Diamond Vitalized Rubber { No Clinch } Tires

tough enough to fight the roads—elastic enough to absorb shocks—built in such a way as to prevent rim troubles.

Other Diamond advantages—Vitalized Rubber, Perfect 3-Point Rim Contact and the No-Pinch Safety Flap for inner tube protection.



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1½ h.p. Rumely-Olds Engine

You'll get your water at low cost, you save a lot of time and work—you'll have an engine that will do your pumping in a short time and be ready for general service the rest of the day. To make pumping no job at all, hitch this engine to a

Rumely Pump Jack

Then all your pumping troubles go. You have a real outfit at a very slight cost.

Rumely-Olds Engines are strong and simple—Rumely Pump Jacks are right, too.

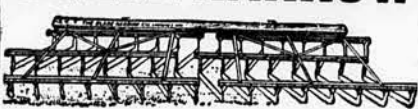
Think the combination over—see if it wouldn't pay you to have it.

The Rumely-Olds 3 h.p. Engine will handle a bigger job—we have them in all sizes, stationary, skid mounted or portable—so we're sure to meet your requirements, and we have the proper pumping outfit for each size.

Write for the Olds Engine Data-Book No. 344, and the special folder on Rumely Pump Jacks—ask name of our nearest dealer.

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Our new harrow levels, packs, pulverizes, slips the trash, cultivates listed corn, saves the moisture, leaves the surface in ridges so soil cannot blow. Just the tool for cultivating and harrowing out potatoes. Saves time and work and better results follow the use of the Blade Harrow. Write for illustrated catalog.

The Blade Harrow Co., Lawrence, Kan.

SEED CORN

Plant the best. I have Boone County White, Hildreth's and Reid's Yellow Dent. Carefully selected, thoroughly tested, and graded. Write for prices and samples. I sell only my own growing. Money back if not satisfactory upon receipt of shipment.

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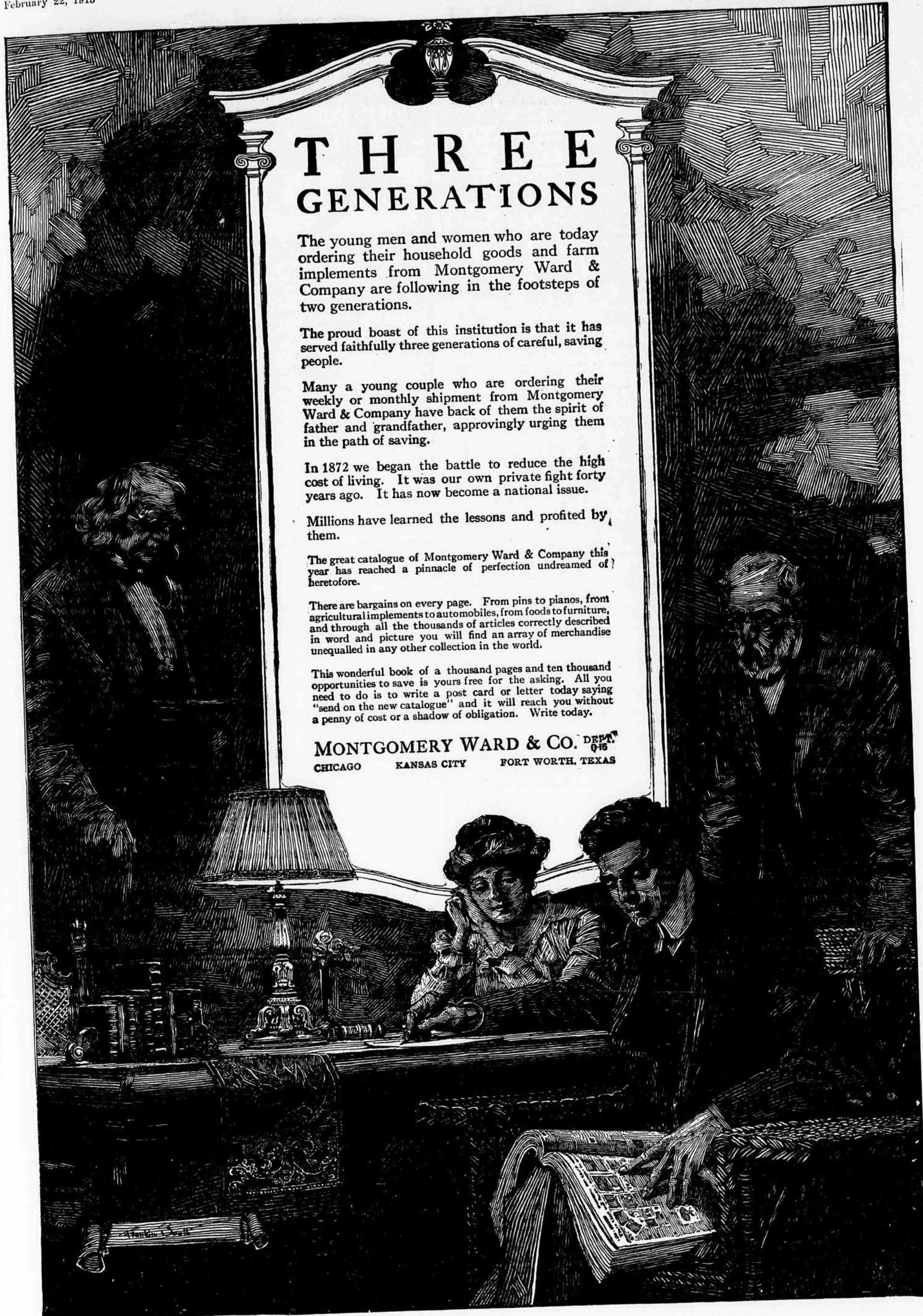
Millions have learned the lessons and profited by them.

The great catalogue of Montgomery Ward & Company this year has reached a pinnacle of perfection undreamed of heretofore.

There are bargains on every page. From pins to pianos, from agricultural implements to automobiles, from foods to furniture, and through all the thousands of articles correctly described in word and picture you will find an array of merchandise unequalled in any other collection in the world.

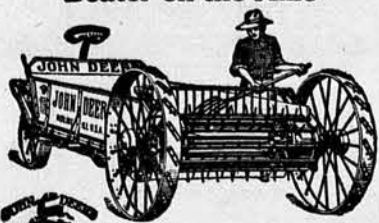
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John Deere Spreader

The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle



The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.



Out of Gear

Only "Hip-High"



Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y. 13.

John Deere Plow Co.
Moline, Illinois

Most anybody can make a dairy profitable in June. But the owner of an **INDIANA SILO** makes it pay all the year round.

Don't take our word for it. Read the book written by owners of Indiana Silos. It tells what the Indiana Silo has done for them and what it will do for you. Remember! You don't need cash to buy an Indiana Silo. It buys itself.

Write for booklet. Address nearest office
INDIANA SILO CO.
Anderson, Ind. Des Moines, Ia. Kansas City, Mo.
311 Union Bldg. 311 Indiana Bldg. 311 Silo Bldg.



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41 INCHES HIGH
100 other styles of Farm, Poultry and Lawn Fencing direct from factory at save-the-dealer's-profit-prices. Our large catalog is free.
KITSELMAN BROS. Box 61 Muncie, Ind.

Farmers Sons Wanted with knowledge of farm stock and fair education to work in an office; \$60 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 22, London, Canada.

THE FARM

Feterita Report From Oklahoma.

W. A. Taylor of Lone Wolf, Oklahoma, in a report to The Star, says feterita on his farm threshed eighty bushels to the acre. Growing one the same land, beside the feterita, was kafir, which yielded fifty-three bushels per acre, and milo maize, which produced sixty bushels per acre. "Feterita," says Mr. Taylor, "will mature in seventy days and will stand the drought better than either milo or kafir."

Experiments at the Oklahoma Agricultural College indicate that feterita is not superior to kafir and milo, but the college desires to conduct further experiments before making positive statements.

Railroad Rates on Manure.

The manure of the Kansas City stock yards accumulates in thousands of tons yearly. It has been used in filling in low lands. The lands below the level of the yards are now filled and the manure must be disposed of in some other way. The railroad companies have had manure rates for years, but recently these rates, effective February 21, have been reduced and the Rock Island rates below apply in a general way to all roads entering Kansas City. The rates are:

| | per cwt. |
|------------------------|----------|
| 25 miles and under | 2c |
| 50 miles and over 25 | 2½ |
| 75 miles and over 50 | 2¾ |
| 100 miles and over 75 | 3 |
| 125 miles and over 100 | 3½ |
| 150 miles and over 125 | 3¾ |
| 175 miles and over 150 | 3¾ |
| 200 miles and over 175 | 4 |

Wide vs. Narrow Tires.

In the road improvement discussion the question of the advantages of wide tires as compared with narrow tires is always brought up. King's Physics of Agriculture, reports these differences in draft:

On macadam streets, wide tire 26 per cent. less than narrow tire.

On gravel road, wide tire 24.1 per cent. less than narrow tire.

On dirt roads, dry, smooth, free from dust, wide tire 26.8 per cent. less than narrow tire.

On clay road, with mud deep, and drying on top and spongy beneath, wide tire 52 to 61 per cent. less than narrow tire.

On meadow, pasture, stubble, corn ground and plowed ground from dry to wet, wide tire 17 to 120 per cent. less than narrow tire.

Kafir More Sure Than Corn.

My experience leads me to believe that Kafir is more sure to make a crop than corn and is a good substitute. I do not think Kafir can be successfully followed by wheat. I do not regard the fodder of great value when the Kafir feed has matured.—H. M. LAING, Russell, Kan.

Kafir is more drouth resistant than corn because of its ability to reach deep and wide for soil moisture and on account of its ability to do this extracts from the soil more moisture than does corn. Then unless the fall is wet, the ground is not in as good condition for growing wheat as in the case of corn land. Kafir grows later than corn too, unless the early season has been favorable for early maturity.

The Kafir stalk on which a head has matured is as good feed as a corn stalk on which an ear has matured. A stalk which has matured grain is never good feed.

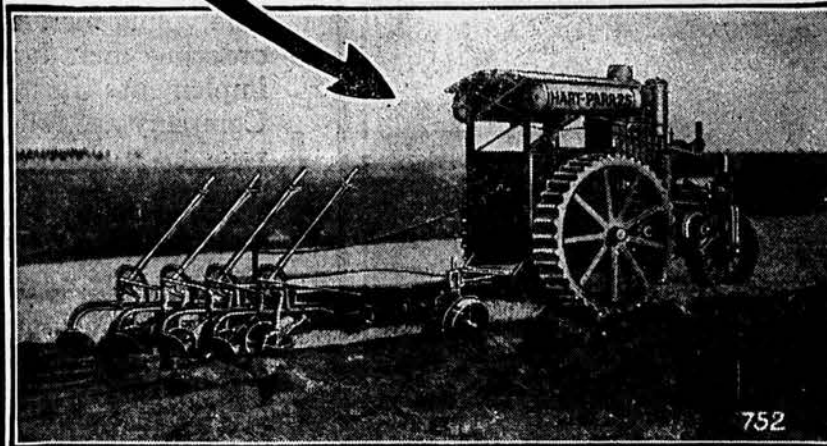
Farm Bookkeeping.

The United States Department of Agriculture has just published a free Farmers' Bulletin No. 511, treating of the subject of Farm Bookkeeping, which will be found very useful by any one who desires to start a system of accounting. The bulletin discusses the advantages of farm bookkeeping and outlines the principles upon which a system of farm accounting should be built up. Forms are given illustrating methods for taking a farm inventory, which is the basis of all farm accounting. Other forms are shown for receipts and expenditures and for learning the farm profit. Forms of labor records are shown, also time sheets and labor reports. While the bulletin in itself is not a treatise on bookkeeping with data, and instructions for keeping a system of farm accounts, it is particularly valuable in giving suggestions regarding the details of farm accounting. If carefully studied it will enable one to devise a system of accounting that will be satisfactory and complete enough for the business of most farms. Send for it. It costs nothing and we are sure it is worth reading.

**25
Brake
Horse Power
Outfit**

Here's a Small Tractor just like the one you've often wished you could find. It's a

**HART-PARR
OIL TRACTOR**



752

This addition to the long established and old reliable Hart-Parr line, is our answer to the constantly increasing demand for a medium power tractor. A tractor built especially for farms as small as 160 acres.

Many inexperienced builders have rushed pell-mell into the field with untried, untested small size tractors. Even with our many years of tractor building experience, we were not satisfied to do this. First, we gave long, careful thought to the power problems of the small farm. We studied the requirements from every angle. Then we designed and built this 25 B.H.P. tractor especially to meet these conditions. Next, we gave this tractor a thorough searching shop and field test. Step by step, we modified and strengthened it. No guess work at any stage.

And now, that we ourselves are convinced that this new Twenty-five is right, we offer it to the farmer as the only small tractor that really is efficient, reliable and economical in every respect. It will prove a profitable investment

on farms of 160 to 320 acres. And the price is within reach of the small farmer's pocket book.

The same general features of construction which have made our 30, 40 and 60 B.H.P. outfits so successful, are embodied in this new Hart-Parr model. It is built almost entirely of steel, thus insuring greatest strength with light weight. The drive wheels are equipped with our wonderful wave form lugs, making the tractor well fitted for work on soft soil.

In combination with the Hart-Parr-Sattley Self-Lift Plow, shown in the illustration, it forms a strictly *One-Man Outfit*. It will easily take the place of 10 sturdy horses and do the work better, quicker and cheaper. It has two working speeds—1.8 and 2.6 miles per hour. It uses *cheapest kerosene* for fuel at all loads, and is oil cooled.

Write today for illustrated circular fully describing the important features of this new Hart-Parr Oil Tractor.

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C. O. D. If Desired— Every thing you order of this great house must absolutely satisfy. We guarantee satisfaction. Send cash with order or one-fourth with order, balance C. O. D. Keep the goods 30 days. Use them, enjoy them, test them. If you aren't fully pleased, return and we'll refund all you've paid and transportation charges both ways. Already we have 1,000,000 satisfied customers. You'll like the Lincoln, Leonard prices, merchandise and silver. Send us your name today. Write us right now.

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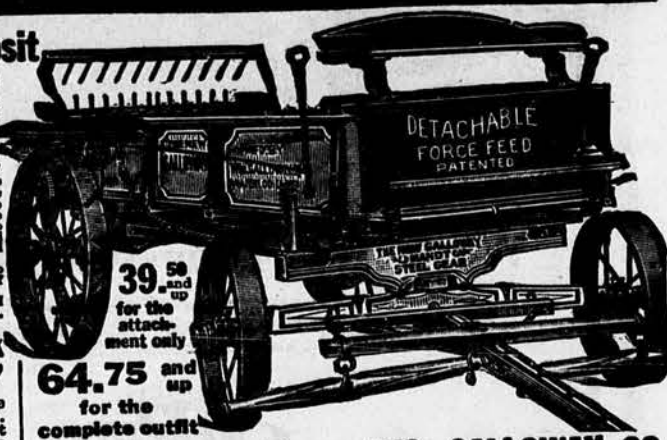


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Shipped FREE!

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I don't want you to send me one cent for this spreader. No sir, not one cent. I don't even ask you to sign any mortgage, lease or note or even promise to buy it. I won't let you take any risk of any kind or nature. I'm making the most daring offer I've ever made and I'm banking on my spreader and your judgment. Here's my plan: I'll ship you one of my new 1913 Model Galloway Spreaders right to your farm without even a dollar's deposit. I want you to take that spreader and test it in a way that would put any other spreader in the world on the scrap heap. I'll even tell you how to do it. Hunt up the toughest manure to handle you can find. If you've got any heavy, tramped-down, spoiled, frozen, or any other manure, let him watch the spreader. If you can't find anything tough enough on your farm, get a load from one of your neighbors. Let him watch the spreader. Drive out into the field; get your team on the gallop and SLAM IT IN! Don't you worry about smearing the manure, for, as a Galloway you're using now, there's a Galloway in the world. I've been putting the Galloway to tests like this for seven years. 40,000 farmers besides myself know what the Galloway will do. Study out the exclusive patented features—the things that make it easy for a lifetime and look that guarantee with a \$25,000 bond. Take a month to make up your mind—use the spreader all that time anyway you want. Then, if you can't honestly say to me, "Galloway, your spreader is better than I ever thought a spreader could be and I don't see how I can get along without it"—if you can't say and mean every word just sent it back to me and I'll pay the freight both ways so you won't be out a cent. If you want to keep it, I'll absolutely guarantee to save you \$25 to \$50 on the very best spreader in the world. That's why I say: "The Only Way is the Galloway." Selling direct from factory to farm, every middleman's profit cut entirely off; the actual net factory price with just one small profit added.



39.50
for the
attachment only
64.75
and up
for the
complete outfit

Wm. Galloway, Pres., WM. GALLOWAY CO.
389 Galloway Station, Waterloo, Iowa
Spreader in Stock at Chicago, Kansas City, Minneapolis, Council Bluffs and Winnipeg

Here's What Your Neighbors Say
Gentlemen: I received the spreader all O. K. and have it now nearly six months. I have never had any trouble with it at all and I like it very much. I would not be without one now for a great deal. My team weighs 2200 pounds and will handle it even on plowed ground. The morning I spread a load and there were two inches of snow on the ground, but the wheels did not slip, even without the mud lugs.
Yours truly,
Kilbuck, N. Y.
Walter E. Smith.

Dear Sir: I received your wagon box spreader and am more than pleased; it does the work far better and is much easier on the team than I expected. The little mules handle it easily and they only weigh 900 lbs. The farmers come from all around to see it work and they all say they are going to have one of them.
Yours truly,
Navina, Okla.
J. J. Robinson.

My Special 1913 Offer

I've got a new proposition for 1913 that's so much bigger and more liberal than anything I've ever been able to offer before that there's simply no comparison. Listen—if you decide to keep the Galloway after having had the free trial, I'll tell you how you may get it partly or entirely free. No canvassing—no soliciting. Just the fairest, squarest, straightest, cleanest co-operative offer that anybody ever made. I can't explain it all here and I won't try to. But I'll tell you all about it in a personal letter if you'll write me right away.

My Regular \$1.00 Book "A Streak of Gold" Sent FREE

Nothing else like it ever written. Tells plainly just how to produce manure, store it, treat it, care for it and use it. This book is worth \$25.00. Price regularly one dollar a copy. I'll send it to you free in addition to a full explanation of my big record-breaking, 1913 proposition and my big spreader catalog so you can pick out just the spreader you want me to send you on this free offer. A postal or letter is enough. Don't lay down this paper till you've sent it.

Farm Machinery Expensive.

"There is no manufacturing business that has its machinery standing idle so much of the time as has farming," said Professor H. C. Price, dean of the Ohio College of Agriculture, Ohio State University, in a recent lecture. He pointed out the case of the binder, which is an expensive machine, yet it is needed only a few days in the year. "The average life of farm machinery is ten years," said Professor Price, "and counting depreciation and interest, it costs each year about 16 per cent. of the original investment to keep it on the farm. The way some machinery is cared for it will cost more than this." The fact that the machinery is such an expensive part of the farm equipment indicates that better care of this machinery is an economical feature of successful farm management.

Stubble and Sod Plow.

P. F. M., Palco, Kan., asks why sod and stubble plows are constructed on such widely different plans.

We assume that subscriber has reference to the mould board. The plow may be looked upon as a wedge of such shape that it will shear off the furrow slice, pulverize and invert it. The function of the sod plow is merely to cut the furrow slice loose and invert it so that the sod may decay and disintegrate. Besides cutting and inverting, the stubble plow has the additional function of pulverizing. It requires less power to force a slender wedge to penetrate a substance than a blunt one, and since a tough sod cannot be pulverized until after it has decayed, the sod plow is made with a long, gently curving mold-board which inverts the sod with the minimum amount of resistance. The stubble plow, being designed to pulverize, is a blunter wedge whose steepness of mold-board depends upon the condition of the soil and the amount of pulverizing that can be done at the expense of a reasonable amount of power.

Customer For Everything to Be Sold.

Keep in mind that there is a customer for everything you have to sell and KANSAS FARMER's classified columns give you the best medium for advising 65,000 Kansas subscribers that you have something to sell.

If you have more seed corn, seed oats, Kafir, clover, timothy, bluegrass, alfalfa, or potatoes, than you need for next year's planting, it is certain that a classified ad will sell your surplus, and while you are benefitting yourself you are helping the man who bought.

The past week we have received letters from several dairymen who ask if we know where they can buy a dairy bred bull which has served his usefulness in the herd of his present owner. Each of these inquirers is looking for such an animal. The fact is that hundreds of such males are every year sent to the shambles and sold at a comparatively low price. These animals would bring more money for their owners sold to men who had use for them and by such transaction the live stock business of the state would be improved and increased.

You can well afford to use KANSAS FARMER as a clearing-house through which your wants both as buyer and as seller can be satisfied.

Montgomery County, Kansas, farmers have organized and engaged a county farm adviser. Next!

Wheat Experiments—Tile Draining Results.

A year ago last fall our subscriber, O. A. R., Columbus, Kan., made some fertilizer experiments with wheat. Here are the results he reports:

- Plot 1—Manure as a top dressing—wheat good.
- Plot 2—Potash, phosphorus, nitrogen—wheat good.
- Plot 3—Potash, phosphorus—wheat fairly good.
- Plot 4—No fertilizer—scarcely any crop.
- Plot 5—Phosphorus—wheat good.
- Plot 6—Potash—scarcely any crop.
- Plot 7—Ground limestone—scarcely any crop.
- Plot 8—Pure raw bone meal—fairly good.

The different plots on the alfalfa showed no results discernable. We have been unable to raise alfalfa here on account of the extreme wet weather which we have at times. The four acres which were tilled a year ago were sown last August and I cut the first cutting last week. It made about a ton to the acre—fine hay.

Have a six-acre field which was sown to oats two years ago which re-seeded itself and has come up this spring as thick as it can stand on the ground. I applied one ton ground limestone per acre on this last fall as a top dressing.

Three Horses for Road Work.

It is only occasionally that one sees three horses hitched to a load of grain, hay or other farm product which is being hauled to market. Not long since we talked with a KANSAS FARMER subscriber who regretted that he was not able to haul a larger load on account of the condition of the roads. We asked if his wagon would carry a larger load than he was now hauling and if he had more horses. He replied that the wagon would haul twice as much and that he had plenty of horses. When we suggested that he use three horses he said that he had not been able to obtain a satisfactory wagon hitch for three horses, that if he could obtain such hitch he would be glad to use it. Equalizers are made and advertised in KANSAS FARMER, which equalizers are made especially for road work and are made for three, four, or five horses. The same equalizers can be used on other farm implements such as manure spreaders, plows, harrows, etc. The brick and sand haulers in the cities we notice are quite commonly using three horses. There is no reason why the farmer cannot reduce the expense of hauling and marketing his grain by using more horse power and hauling larger loads.

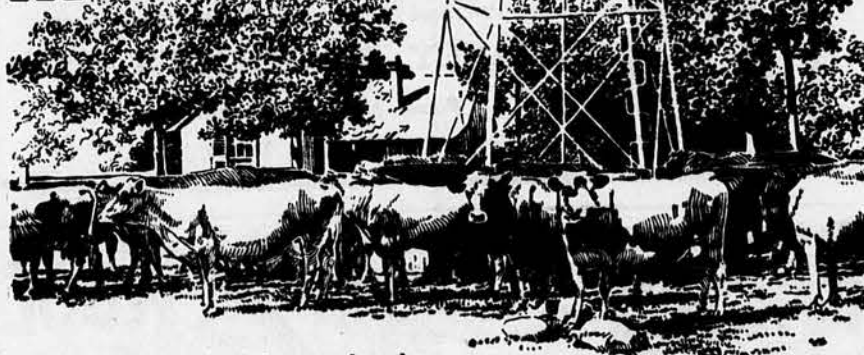
An equalizer of some sort is really necessary to permit him to get best results. The manner of hitching the third horse to a chain which is attached to the wagon bed or the rear axle, is not satisfactory, and this lack of satisfaction, is, we believe, the reason so few three-horse teams are used for road work.

Could Not Do Without It.

KANSAS FARMER has always been a welcome and valued paper since my first arrival in Kansas and I would dislike to do without its weekly visits.—L. L. WADE, Ashland, Kan.

One advantage in growing razorback hogs is that the bacon slices itself.

Corn and cows are a winning combination in the Ozarks.



MR. Hosmer and his son bought a farm near Marshfield, Missouri, a few years back, at \$10 to \$15 per acre. To-day that farm couldn't be bought for \$75 to \$150 per acre, and is bringing an annual net income of over \$5,000.

When the Hosmers took hold of this place, it was said that the corn couldn't be grown high enough to hide a 10-year old boy—but now they are making from 60 to 80 bushels per acre regularly. And they are averaging around \$90 per year per cow!

H. S. Harris says: "My milk production for the six months from April to November (milking an average of 15 cows, about one-half of which are two-year olds), was 8,135 gallons, which sold at 16 cents per gallon, or \$1,301.60. Feed all raised on my farm, except salt."

Mr. Holloway, another Ozark dairyman, says: "I find this country the best for farming and far the best for dairying. The healthful, mild climate cannot be beat. I know this, for I have traveled a great deal; have been in nearly every State in the Union."

These experiences prove what an expert on dairy husbandry said a while back: "Not only are the Ozarks adapted for dairying but are certain to be noted far and

wide in the future for this industry. Butter fat can be produced cheaper in the Ozarks than anywhere else."

With plenty of good pasture land, an unlimited amount of pure water, with soil that will grow every variety of grains and grasses, with short, mild winters that permit grazing most of the year and make expensive shelter unnecessary—stock raising of every kind is more profitable in the Ozarks.

Ozark farmers are producing pork at 2½ cents a pound, and selling it at 8 cents or more. They are making around \$12 per ewe; with the sheep feeding almost entirely on native wild grass.

The closeness of Kansas City, Memphis and St. Louis—offering tip-top prices—has a great deal to do with the big net profits which Ozark farmers get.

But all these advantages mean more when it is realized that good land can be bought now in the Ozarks at \$12 to \$15 per acre. It's a proposition that deserves any man's serious thought and investigation right now!

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.



Frank Anderson, Director of Development, 1503 Frisco Bldg. St. Louis, Mo

RATEKIN'S 100 BU. OATS

Ratekin's Big Banner 100 Bushel White Oats—The biggest, prettiest, plumpest oat in existence. Side by side with common sorts they yield 100 bushels per acre where other sorts make but 25 to 35 bushels. Strong stiff straw; sprangled heads; ripens early; never rusts, blights or lodges. There is none like them, and when our stock is exhausted there is no more to be had. Samples Mailed Free. Also our Big Illustrated Catalog of farm, field, grass and garden seeds. A postal card will bring them to your door. Address Box 7, RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

MENTION KANSAS FARMER WHEN YOU WRITE.



Work for Your Neighbors Too

Deeper plowing, better preparation of the seed-bed, more discing and harrowing all bring better crops. Keeping horses to do this extra work take away the profits. The profitable way is with a



15-30 h.p.

With an OilPull you can do your own work quickly—when it should be done. After you've finished you can make the tractor pay for itself by working for your neighbors.

You can be sure they'll still have work to do after you are through. Remember an OilPull will do all kinds of work—plow, bale, thresh, shred, cut ensilage, build roads, etc. The investment is small—the return large.

If you can't afford one yourself—join with your neighbors and get one. It will do better work for all of you—it will pay for itself in short order. You can't go wrong if you buy an OilPull. It's less expensive to buy because it lasts longer—it's cheaper to run because it burns cheap kerosene. It is oil cooled and works equally well winter or summer. Has two speeds and is well adapted to rolling country. The 15-30 h.p. size is right for most work—there is a larger size for the heavy work.

Data-Book No. 353 tells all about the OilPull.



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Power-Farming Machinery

Kansas City, Mo.; Wichita, Kan.; Dallas, Texas.

491

LIVE STOCK

Word comes that the Hays Experiment station has just suffered the loss of a large barn and 25 head of horses by fire. This will be a crippling blow to the station unless it can be immediately recouped by the Legislature now in session. Particulars as to how the fire originated are wanting at this date.

Almost weekly the Kansas City market is demonstrating the big advantage which comes from raising market cattle on the farm rather than buying feeders. As prices go there is a heavy investment required to put in a lot of feeders and the market may not fit when they are right. With home raised cattle there is no big investment in the same way and the margin of profit is so much greater that market variations have less of terror for the shipper.

Silo Information for the Asking.

The use of the silo is a live Kansas topic. KANSAS FARMER has for three years taken the lead of all agricultural papers—everywhere—on this subject. The advantages of the silo and the feeding of silage have been covered from every angle. We, of course, have not written all that might be said. We never will be able to do this. Our readers can get much information from the catalogues and printed matter of the various silo and silage cutter manufacturers. One book in particular is worth many times the dime it costs—that is the book "Modern Silage Methods," published by the Silver Mfg. Co., Salem, Ohio. This is not a paid advertisement. It is written to tell you about a book worth many times the cost.

To Tan Any Kind of Fur Skins.

This will be found an excellent plan for tanning hides with the fur on: After having cut off the useless parts, and softened the skin by soaking, remove the fatty matter from the inside and soak it in warm water for an hour. Next mix equal parts of borax, saltpetre and Glaubersalts (sulphate of soda) in equal parts, with sufficient water to make a thin paste. Spread this with a brush over the inside of the skin, applying more on the thicker parts than on the thinner, double the skin together flesh side in, and put in a cool place. After standing twenty-four hours wash the skin clean, and apply in the same manner as before, a mixture of one ounce sal soda, one-half ounce borax, and two ounces hard white soap, melted slowly together without being allowed to boil. Fold together again, and put away in a warm place for twenty-four hours. After this dissolve four ounces alum, eight ounces salt and two ounces saleratus, in sufficient hot rain water to saturate the skin. When cool enough not to scald the hands, soak the skin in it for twelve hours, then wring out and hang it up to dry. When dry repeat this soaking and drying two or three times, till the skin is sufficiently soft. Lastly, smooth the inside with fine sand paper and pumice stone and work the skin until soft.—F. G. P.

About Mules.

America is said, by good authorities, to possess more mules than all other countries in the world combined. Not only is this true, but the raising of mules is growing rapidly as a phase of live stock industry. It is said that the breeding of mules has gone to such an extent that it amounts to almost a craze and that last year about one-fourth of all the mares in the country were used for raising mule colts.

If these figures are accurate, and they come from a very reliable source, then they contain in themselves one of the reasons why horses are so scarce and high priced. Every mare that is used for the breeding of mules becomes the last of her line. She may produce a number of mule colts but her family ends with her own life as the mules do not reproduce.

These are most important facts. With good sound mule colts selling up to \$125 at weaning time, there is little wonder at the growth of the business of mule raising. It is but natural that the farmer who raises mules at all should raise them from his draft mares as this will produce a type of mules most useful to him in his business. It is also true in certain sections, notably in Missouri and Kentucky, that the farmers like to drive mules and use their high class road, saddle and even standard bred mares for mule production. This gives a very fine type of mule with plenty of speed and endurance and fine action for a driving team.



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The Farmer's Friend

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Dept. 4 Moline, Ill.

Make Farm Work Easy For Man and Horses.



Heider eveners distribute the load so every horse pulls an equal share. That means better work from each horse, easier work for you. They are made for 2, 3, 4, 5 or 6 horses. The 4 or 5 horse plow eveners work four horses abreast on gang, sulky and disk plows, 1 horse in furrow, 3 on unplowed ground. Heider 3-horse eveners for wagon, manure spreader, grain drill, or any implement with pole.

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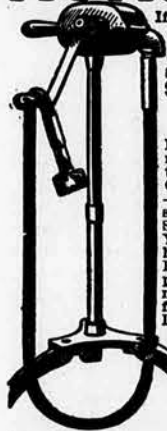
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saves high lifting, lighten draft, don't rut roads. Spokes don't loosen—wheels don't dry out or rot. Write for free book on Wagons and Wheels. **Electric Wheel Co.,** 34 Elm Street, Quincy, Ill.

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If your horses are clipped before the spring work begins they will get all the nourishment from their feed—be healthier and look better. They will dry off quickly, be more easily cleaned and feel better generally—that means work better. Use a **STEWART'S BALL BEARING ENCLOSED GEAR CLIPPING MACHINE**

Not an expense—but a highly profitable investment. It turns easily, does more and closer work than any other machine—can't get out of order. Gears all file hard and cut from solid steel bar—protected and run in oil. Includes 6 feet new style easy running flexible shaft and celebrated Stewart's Single-Tension Clipping Head. You can make money clipping your neighbors' horses while yours will do better work. Each machine guaranteed. If it doesn't give perfect satisfaction, return it and get your money back. Complete from your dealer at \$7.50. If he can't supply you send \$2.00 and we will ship one C. O. D. for balance.

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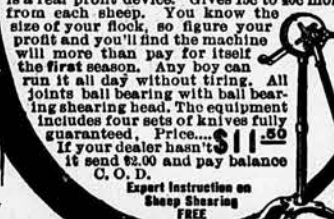


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\$50 to \$300 Saved! Permanently Guaranteed! I'll cut \$50 to \$300 off anybody's prices and put it in your pocket. And I'll give you the very best engine on the market today—THE GREAT GALLOWAY—backed by my ironclad guarantee of permanent satisfaction.

Get My Special 1913 Proposition! Write quick and I'll tell you how you may get one of these great engines partly or entirely without cost to you. No canvassing—no soliciting. I've been four years in working out this amazingly generous plan. Write today for full particulars.

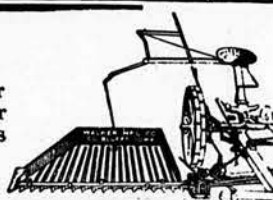
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Takes possession of
a fertile quarter
section in

Southwest Kansas

There's not much vacant land left in Kansas. The five southwestern counties have remained unsettled and undeveloped because of inadequate transportation. The Santa Fe is building new lines to serve this territory, and thousands of farms next season will be put to creating wealth. This is your opportunity to get a good Kansas farm cheap. The terms are advantageous, the results certain.

If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only \$200 down. The price is \$10 to \$15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

For further information write for illustrated descriptive folder containing map and full details.

Santa Fe Land Improvement Co.
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Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable. New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.

A Swift Current, Saskatchewan farmer writes: "I came here on my homestead, March, 1906, with about \$1000 worth of horses and machinery, and just \$35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 60 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

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Another important fact bearing upon this question is to be found in the acts of legislatures in different states. These acts have put a ban upon betting at races and thereby removed the chief incentive which some men found in horse racing. Without the privilege of betting there was considerably less of incentive to breed race horses than there had previously been and many of the thoroughbred mares which could not profitably be used for the production of race horses, no longer in strong demand, have been used for mule breeding and this has added to the scarcity and consequent high price of horses of this type.

Another influence which is perhaps not fully appreciated, is that which has been exerted by the automobile. A man will spend money freely for his pleasure when he would be very economical in other matters and the man who could afford a high stepping, stylish and high priced driving team for his pleasure only could also afford the automobile for the same purpose. The novelty of the automobile and its efficiency have served to put the light road and saddle classes of horses out of business to a very large extent and this must be reckoned as another factor which has had its influence on the scarcity and price of certain classes of horses.

The automobile has also put the scrub and inferior horse of all types out of business or is rapidly doing so, and all of these influences have combined to increase the scarcity and prices of horses and at the same time increase the number of mules. The automobile does not interfere in any way with the heavy draft horse. It cannot be used as a farm motor, and its use as a motor truck in the city so far only serves to supplement the work of the heavy drafter.

On the other hand many farmers have learned that the mule when properly bred is no more difficult to handle than is the horse. If he comes from kicking ancestors, he is likely to be a kicker, but he is always efficient, cannot be overworked, will not kill himself by over-eating or over-drinking when too warm, and does not hurt anything when he runs away. The average price of mules is generally about \$8 or \$10 higher than that of horses of the same quality and wire cuts and slight blemishes do not injure the sale of a mule as they would that of a horse.

Already has the craze for mule breeding been carried to such an extent that, when combined with an already existing shortage of horses, the mule breeders are viewing the future with considerable concern as they do not see where they will get mares for mule breeding in later years. As the raising of mules stops the propagation of horses, and as the mules do not reproduce, there are good authorities in this country who predict an absolute horse famine unless the policy of the farmers in this matter is changed. Of course there are emergent times when there is an artificial market created for mules such as was witnessed during the Boer war in Africa when the United States was called upon to supply large numbers of mules for army service.

Then there is the constant and steady demand for mules in the farming operations of all the southern states where they are much preferred to horses. This southern demand has been increased by the revival of interest in agriculture in the southern states. Farmers in that section have learned that cotton raising alone is just as detrimental to their own interests and to the fertility of the soil as wheat raising in the wheat belt. They are now raising corn and other farm crops to the extent that certain southern states have become exporters of corn that were never able to raise enough for home consumption. This change in southern methods has increased the demand for mules.

The recent horse plague in Kansas and other central states has served to turn attention strongly to the mule as the belief that the mule is more nearly immune from this and other diseases is very general and wide spread. Mules thrive and are most efficient under the conditions which exist in the territory devastated by the horse plague and if they are immune from this plague or even partially so, it is but natural that they should be called upon to take the place and do the work of the horses which died last year.

At any rate, present conditions seem to indicate that the raising of mules has been a most potent factor not only in increasing the price of horses, but in decreasing their number, and it serves to call attention to a present condition which may prove to be a grave matter in the future. More mares must be raised if we would have more horses. This whole problem is well worth the careful thought of every farmer in the country.

Built by One of the Largest Concerns in the World for American Roads Especially

The J. I. Case T. M. Company, Inc., maker of the famous Case Forty, is a \$40,000,000 concern. For seventy years it has manufactured the finest machinery in its lines. You know, and your friends know, the quality.

The Case Company has thousands of customers in every part of the United States. Our machinery goes to all parts of the world.

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The Case reputation is staked in each car. Our methods of building, our grade of materials, must be better than usually go into Forties to maintain our 70-year-old standards.

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We could make large savings on the cost of our motors by using cheaper materials. Also on clutches, transmissions, drive shafts, wheels, axles and other vital parts. We could cut our assembling cost in two, and this cost is one of the largest.

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We can do what other makers can't. We created no new business

when we started making automobiles. We had 10,000 dealers and 65 Branches before a car was sold. We saved that selling expense. We saved officers', sales manager's and advertising department salaries, rent and other overhead charges.

Makers of other cars must include such costs in the price.

We put all these savings into the car without charging buyers an extra penny.

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Write for the Case Catalog, or send the coupon for it. See what sort of car can be made for \$2,200. Note the Case Thirty also at \$1,500.

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This Emblem on an automobile has the same significance as the Sterling mark on silver.

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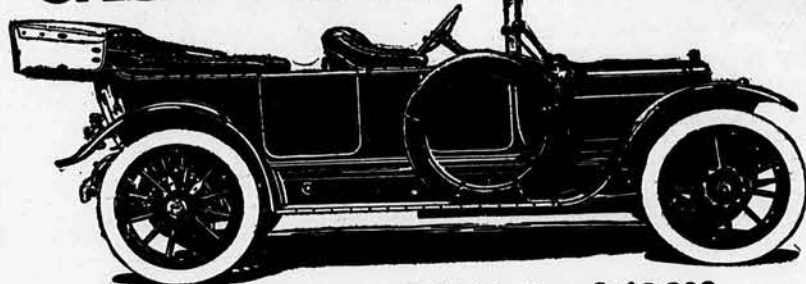
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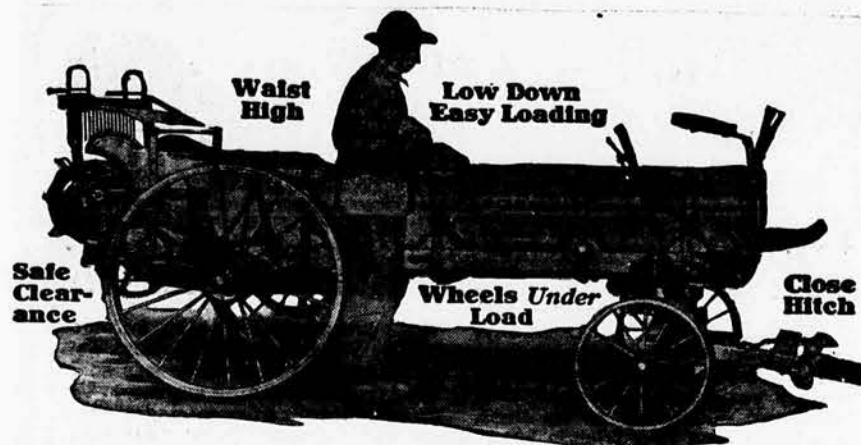
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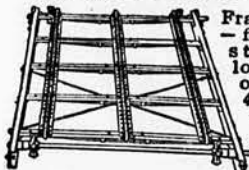
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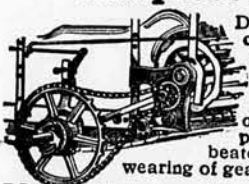
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MENTION KANSAS FARMER WHEN YOU WRITE

Development of the Farm Tractor

By GEORGE H. PUTMAN, Hart-Parr Co., Wichita.

WHILE a large number of the farms in Kansas are being cultivated to a greater or less extent with farm tractors, it is only in recent years that this has been the practice.

All the older men will remember when threshing was done by horse power, and when a little later steam engines were introduced to supply the power; these steam engines were simply portable engines moved from place to place by horses, or in some instances by oxen, and were considered a decided improvement over the horse power threshing outfits.

Not long after came the steam traction engine, but it was still guided by horses, and still later came the steam traction engine with a steering device operated by the engineer from the foot-board of the engine, which at that time seemed the acme of perfection in traction engines.

Those engines were designed for belt work principally, and incidentally to be used in moving the threshing outfit from one job to the next. If the roads were not in a favorable condition horses were frequently used to help out in the moving of the threshing outfit, which was much lighter than the common outfit in use today.

In isolated cases where the farmer thresherman occupied large tracts of land free from stone and other obstructions, and practically level they tried

only when the ground was in such condition as not to be injured by the packing of the soil.

In the meantime gasoline engines, both large and small had become popular, and very generally replaced steam engines for stationary and portable work. This called the attention of designers and manufacturers to their use as tractors, and about 1892 or 1893 some gasoline tractors were placed on the market.

Those, however, were soon found to be impractical as tractors, and for about ten years various designs of gasoline tractors were exploited to a greater or less extent, but all fell short of the promised success, and it became common talk among those building or operating steam traction engines, that an internal combustion engine was not suitable for traction work, and that on account of inherent defects, such as lack of uniformity of belt speed, lack of reliability on general principles, and features of that character, they could never be made practical for traction work.

Previous to 1901 or 1902 designers of gas tractors had simply used an engine designed for stationary work, placing it on a truck and attaching a train of transmission gearing, usually copied from some steam tractor, without adapting it to the changed conditions. This motor was not designed especially for traction work. This method of procedure rather than any inherent disqualifications of



MODERN TRACTOR PLOWING, PACKING AND HARROWING.—THIS IS A 40-HORSE-POWER ENGINE AND IS ADAPTED TO THE USE OF 320 TO 640-ACRE FARMS.

plowing with these tractors, but the traction speed was usually found unsuitable for plowing, and when put at traction work continuously the engine was not suitable on account of the following defects: Gearing too light, resulting in frequent breakage; lack of sufficient face surface to the gearing, greatly increasing the wear; bearings of the shafts, axles, etc., not of sufficient length to be durable; axles, shafts, etc., too light for continuous traction work; lack of proper protection from dust and grit; drive wheels with too narrow face for field work; and in many cases the boilers or frame work on which the engine proper and the transmission gearing were bolted, were unable to stand the strain of continuous traction work.

To overcome these difficulties, the gearing was made stronger and with wider faces; axles, shafts, etc., were increased in size; bearings made larger and longer; drive wheels with wider faces; boilers were strengthened materially, and the entire tractor made stronger, naturally adding considerable weight.

As the help required for a large tractor was no more than for a smaller one, the size was increased very materially, and these tractors were then given the name of "plowing engines."

It was discovered that large steam tractors when loaded with fuel and water ready to go to work, were so heavy that a very large proportion of the power developed was expended in moving the tractor itself before doing any effective work. The expense of operating and supplying with fuel and water, added to the cost of fuel, made the total operating expenses so great that the cost of plowing per acre became prohibitive except under the most favorable conditions. Besides, the weight of the tractor prevented its use for any farm traction work except plowing, and even that could be done

the gasoline engine, was largely responsible for the lack of success in the use of the gas tractor up to that time.

In 1901 or 1902 certain designers conceived the idea that to make a successful gas tractor the motor should be designed especially for traction work, the truck and transmission gearing designed to suit the motor and conditions surrounding the work, making a complete tractor with each part designed for the particular work required of it.

A tractor was produced along these lines. This tractor was a success. From that time the development of the farm tractor has made wonderfully rapid strides, starting out in 1902 or 1903 with but one design of gas tractor in the field that could be considered a successful product. Now those that have attained considerable success can be counted by the dozen.

While at first the gas tractor was used largely for belt work, users soon learned that on account of their light weight as compared with the steam traction engine of like power, the greatly reduced cost of fuel and attendance, made them practical and economical and desirable for the various traction work on the farm, and farmers are today doing with them work that was considered impractical if not impossible a few years ago. They are being used for threshing, corn shelling, corn shredding, filling silos, clover hulling, hay baling, well drilling, feed grinding, plowing, disking, harrowing, seeding, harvesting, listing, freighting, operating road graders, moving buildings, operating irrigating pumps, making irrigating ditches, and various other uses. In fact, new uses for the gas tractor are appearing every day.

It places in the hands of one man a power formerly requiring several men and many horses; it makes it possible for him to plow his land deeper, and at exactly the right time; enables him to

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That is what makes the opportunity here so great now. Land prices, considering earning power, are ridiculously low simply because it was only a few years ago that the agricultural possibilities of this section were known; but with this farming area so limited in extent and with hundreds of people coming in every year, you can figure how quickly land prices are going up. A man must act at once! Right now a personally owned water right here (pumping irrigation plant) costs less than half what a Government or corporation controlled water right costs elsewhere!

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disk, seed and harrow in the best possible manner and just when it should be done; enables him to harvest his crop more expeditiously and certainly, thresh and market it quickly. All this means larger crops, better quality and lower cost of production, and better still, less drudgery and less worry on the part of the farmer.

Under every condition and in all kinds of work the gas tractor has proved to be reliable and dependable, with steady motion for belt work, strength for traction work, economical as to operating expense, light weight so that the plowing, seeding, harvesting, and general farm work can be done easily and without injury to the land.

With the rapid increase of gasoline tractors and automobiles, gasoline which was formerly considered a by-product—with illuminating oil as the principal product from the petroleum—is now the principal product and the price has increased to twice or three times the price a few years ago.

Designers of farm tractors, however, have been equal to the occasion, and today the up-to-date farm tractor is so designed that low grade kerosene, or distillate can be used successfully; a gallon of this fuel actually producing more power than a gallon of gasoline, at but little if any more than half the price per gallon.

With these conditions prevailing, it is little wonder that the use of the gas farm tractor is increasing with wonderful rapidity all over the southwest. It will be a matter of but a short time before every farmer operating 160 acres or more will be doing the major portion of the work on the farm with the "Modern Farm Horse," as the tractor is frequently styled.

Pulling Power of Horses

How much can a horse pull is frequently asked. By this is not meant what load can be pulled, because this would depend largely upon the condition of the roadbed, but what pull or draft can he exert on the load as measured by a spring balance in pounds. The draft which any horse can exert will depend largely upon his weight although his build, muscular development, and "willingness" must also be considered.

In general it may be said that a horse exerting a pull equal to one-tenth his weight hour after hour is doing a good day's work. For a short time he can exert a pull equal to one-fourth his weight and for a very short distance, like pulling up a steep hill, he can exert a draft equal to one-half of his weight. For example, a 1500 pound horse for continuous work can exert a pull of 150 pounds, for a short time a pull of 375 pounds, and in an emergency a pull of 750 pounds without overstraining. It is also of interest to note that a 1500 pound horse exerting a pull of 150 pounds and traveling at a rate of 2½ miles per hour is doing an amount of work equivalent to just one horse-power.

Actual experiments have shown that on an ordinary level dirt road a draft of 140 pounds and on a level macadam road a draft of 60 pounds is required on the average to draw one ton. This amount of draft on the level is due to the friction of the wheels on the roadbed which of course will vary with its smoothness. In going up a hill the draft becomes greater because the horse must then lift the load in addition to overcoming the friction on the roadbed.

Assume that a team of horses weighing 3000 pounds are exerting a draft equal to one-tenth their weight or 300 pounds. The team then will draw a load of 2.14 tons on a level dirt road. By exerting a draft equal to one-half their weight or 1500 pounds they will draw the same load up a 16.5 per cent. grade which means a road which rises 16.5 feet in 100. The same team with a draft of 300 pounds will draw a load of five tons on a level macadam road, but by exerting a draft of 1500 pounds (the maximum that could be expected of them) will draw this load up a grade of only 9.2 per cent., and on account of the slipperiness of a macadam grade probably one not exceeding 8 per cent. If a grade of 16.5 per cent or even one of 10 or 12 per cent were encountered the team would be stuck.

The reason therefore why good roads make high grades objectionable is because the maximum load which can be drawn on a level good road is so much greater than on a level poor road that a team cannot ascend the steeper grades with it. Since the draft on a hill is always proportional to the grade, the builders of improved roads must cut down the hills so that a team loaded to its full capacity (a draft equal to one-tenth its weight) on the level can ascend easily and with overstraining.

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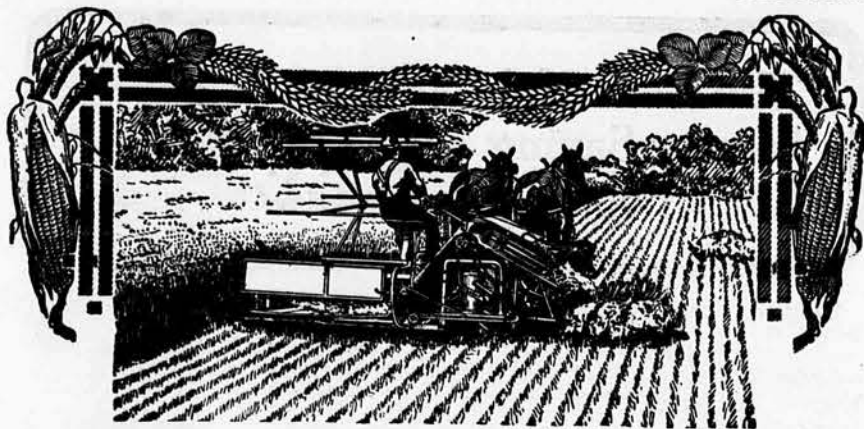
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DAIRY



Not long since we heard a speaker remark: "Stop blaming your luck. Use that energy to find the trouble. There is a cause for everything. It may be yourself who is to blame."

Oregon leads the states of the Union in increase in value of all live stock for the last ten-year period, that increase being 75.6 per cent. Dairy herds were increased 50,000 animals. This is a good showing. However, no better showing than Kansas could and should have made. There is no state better adapted to the growing of live stock than Kansas. There is no state in which dairying can be followed with greater profit than in Kansas.

There is no getting away from the fact that along with breeding and feeding for dairy production, kind treatment of the dairy herd is essential and yields an actual cash return. The matter of kind treatment should not be a bugaboo, either. There is little human nature in the individual who, when he sets out to improve his live stock, does not unconsciously have a higher regard for his animals, and this regard is followed by the kind and considerate treatment which is conducive to the best results. Motherhood and milk production go together. Treat the cow like a mother. Be kind, be gentle, and this will help to fill the milk pail and increase the cream check.

The man who is grading up a dairy herd is not a breeder of dairy cattle in the strictest sense of the word. The man who is improving his herd by the use of a pure-bred bull from some one of the leading dairy breeds and who is selecting the best milkers, is looking for dairy output and for increased profit only. The true breeder is looking to an ideal along with increased milk production and increased profit from the sale of breeding animals. The breeder must have imagination to create for himself an ideal, and must have enthusiasm and patience to breed for and attain that ideal. The man who has no desire to become a true breeder is not getting himself into any of the troubles of the breeder by the grading up plan.

California had little time to boast over the record of the Holstein cow of that state which produced 28,065.9 pounds of milk in a year. After just a few months that record was exceeded by a Massachusetts Holstein which gave 29,553.4 pounds in twelve months. In discussing the performance of these two cows, a farm dairyman recently remarked that these animals, as well as all other large producers, were freaks. The fact is that an examination of the ancestry of each of these two particular animals, as well as that of nearly all of the great producers, will reveal superior producing blood in their ancestry. Human progress is built on the maxim that "like produces like." The great herds of our dairy breeds have been built on this maxim. They are the result of careful and intelligent mating of males and females from large producing families and the results obtained are not by accident. The farm dairyman of today is not compelled to follow the tedious and laborious methods of 50 years ago. Today he can, by the use of blood of large producing families in his herd, at reasonable prices and at prices which he can afford to pay, achieve certain improvement and increased profit.

It is oftentimes difficult to make the farm dairyman see the justification of the expenditure of \$100 or as much more as is necessary to secure a well bred dairy bull. Suppose that the farm dairyman gets from the pure-bred male ten heifer calves which would produce two pounds of milk more per milking than did their dams at like ages. The gain per milking would appear small and would not be recognizable without the use of the scales, yet the 600 milkings of a 300-day lactation period would show 1,200 pounds of milk, which on a conservative basis would be an increase of \$12 per heifer over the product of the dam at the same age. On a bunch of ten heifers the increase would amount to \$120 for a year's milking. Since the milking life of a dairy cow is easily nine

years, the increased income from the ten heifers of the first cross would be \$1,080. The facts are that a bull of good breeding will in a herd of our common cows produce heifers of greater improvement than the above. Ten years of progressive breeding will increase the product of the common cows two and one-half to three times, and at the end of that period the younger heifers will carry fifteen-sixteenths of pure breeding and will be in demand at good prices by dairymen. From the above deductions can be made which will prove a seemingly large investment in the right kind of bull will be of little consequence compared with the results attained.

It is not unusual to find a farmer who under his present existing conditions cannot keep more than eight or ten cows, insisting upon the keeping of those cows for a calf from each per year. The calves, of course, are to be sold as stockers to feeders at eight to twelve months old. If there is a class of farmers in Kansas who are justified in engaging in dairying, it is the man who can keep only eight or ten or possibly a fewer number of cows. Thousands of Kansas farmers are so situated. It is to such farmers that we especially appeal to give dairying a fair consideration and candidly make an effort to see if they are not justified in changing their herds from so-called beef herds to dairy herds. The fact is that if any effort is being made on such farms to improve the present herd along beef lines, improvement along dairy lines can be made just as cheaply and at no greater cash outlay for bulls. There is more money in the growing of a well bred heifer calf to one year of age than there is in growing a calf which sells for stock cattle purposes. If the farmer is breeding beef animals which sell as breeders, then the difference named above does not exist. While the heifer calf is being reared, which will sell for as much if not more money than the so-called beef calf for stock purposes, the mother of that calf is yielding from \$50 to \$100 worth of milk per year. There is absolutely no comparison between the income resulting from intelligent dairy breeding and the ordinary from beef breeding, which, in fact, is not beef breeding at all, but is the breeding and rearing of calves which ultimately find their way into beef.

We recognize the fact that the farm dairyman who is so situated that he cannot keep more than five or six cows, on account of a small farm, lack of pasturage and because of shortage of milking help, has difficulty in seeing his way clear to expend the money for a bull of such dairy breeding as he knows he should have. However, the man so situated is the man who has greater need than any one else for cows of large producing ability. If cows are to be kept at all under such circumstances, they should be such as will yield the largest possible income, because under such conditions it is altogether probable that the cost of feeding such cows will be in excess of the cost under more favorable conditions of pasture, etc. Also, on the small farm a little herd of cows is likely to be to a greater extent the main stay. If the owner of the small herd recognizes the advantage of grading up and improving, and cannot obtain in his neighborhood the services of such sire as will accomplish results in his herd, then he can afford to make the expenditure necessary to own that animal himself. However, there would be no excuse whatever for his maintaining a "scrub." He can obtain the services of such scrub at much less expense and trouble than by owning such animal. There is one other plan, however, which is entirely feasible and which works successfully in many localities in other states, and that is the company ownership of a good bull. There are advantages in this company ownership, too. First, it implies that the bull will not have the free run of the pastures and will be kept up so that the season of the year at which cows freshen can and will be regulated. He can and will be boarded around, and the trouble will in reality be much less than supposed and the average much greater than believed.



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Is not painted with creosote—not dipped in the ordinary way—it is run through a vat of boiling creosote. The heat forces the creosote into every crack and into the very heart of the silo itself, covering every particle of the surface with an impervious coating of creosote. It makes painting unnecessary, makes rotting impossible, eliminates a large part of the swelling and shrinkage you encounter in other silos, and our patented spring hoop lug does the rest. The Des Moines has more important special features than any other silo on the market.

They are exclusive features—the creosote, the spring hoop, the triple anchor, the three inside hoops and the refrigerator doors and door frame are just a few of them.

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THIS OFFER IS NO CATCH. It is a solid proposition to send, on trial, fully guaranteed, a new, well made, easy running separator for \$15.95. Skims hot or cold milk; making heavy or light cream. Designed especially for small dairies, hotels and private families. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Gears thoroughly protected. Western orders filled from Western points. Whether your dairy is large or small, write us and obtain our handsome free catalog. Address:

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Feeding Calf Meal.

Subscriber, C. F. B., Kingman, Kan., desires information as to how Big B calf meal, advertised in KANSAS FARMER, should be fed, and asks if it raises as good a calf as whole milk.

The composition of the calf meal mentioned above, and which is that of practically all calf meals, is in the food constituents the same as whole milk and is approximately as follows: Protein, 24 to 26 per cent.; fat, 5 to 6 per cent.; fibre, 5 to 6 per cent.; carbohydrates, 51 to 53 per cent. It cannot be presumed that calf meal or any other mixture compounded by man can be the equal of nature's food taken in the natural way, for the feeding of calves.

The value of milk, however, and other conditions surrounding the dairy, has made it necessary that some substitute for milk be found in the rearing of calves and the calf meals are compounded to obtain results just as near those given by Nature's food as is possible. It must be understood that the digestive arrangement of the young calf is easily deranged and for this reason when the calf is not grown by natural means care and good judgment must be exercised in the feeding and this involves the feeding of the proper amount at proper intervals and at proper temperatures, and the feeding from clean utensils. When these precautions have been observed the feeding of calf meals is highly satisfactory as can be expected.

The instructions pertaining to the feeding of the above named meal are to the effect that the calf should be allowed to remain with its mother the first couple of days until the mother's milk becomes fit for human use. The calf should then be taught to drink whole milk and at the end of four or five days the feeding of the meal may begin. Two tablespoonfuls of the meal named is scalded with hot water, stirring all the time to keep it free from lumps, and is put into two quarts of milk and one and one-third pint of boiling water, and when the mixture has been cooled to the temperature of freshly drawn milk it is ready for feeding. The calf may be fed this way for a week, increasing the amount of meal daily and reducing the whole milk, until at the end of the second week a pint of meal is being used, one quart of milk and 1 1/4 quart of water. The meal is gradually increased until the calf is three weeks old, when about 1 1/2 pints of meal is used, 3/4 quart of milk and 1 1/4 quarts of boiling water. When four or five weeks old about one quart of calf meal and two quarts of boiling water without any milk at all, can be fed.

Teach the calf to eat clean, sweet hay and ground oats or corn or Kafir meal, just as soon as possible. It is wise to do this even though the calf should be fed on whole milk or skim milk.

Caked Udder in Cows.

L. H., Waldo, Kan., asks the cause and remedy for caked udder.

Caked udder in cows is also commonly called garget, of which there are two kinds: One, non-contagious, the other, infectious.

It is a frequent trouble, especially in cold weather, often due to "catching cold" in the udder. The symptoms usually appear soon after calving, and many complications often ensue, sometimes leaving the cow with a damaged quarter.

Since cows are so high-priced, it is certainly poor economy to attempt home treatment in severe cases. If your veterinarian treats the case he can give you the benefit of a personal examination. If a veterinarian is not available, the general treatment is to give a purgative of Epsom salts, bathe the udder with warm water, to which has been added several tablespoonfuls of sodium hypsulphite. Dry completely, and rub in carbolated lard or vaseline. Milk frequently.

Churning Separator Cream.

What is the best method of handling hand separator cream before it is ready for churning? This question is answered by G. L. Martin, dairyman, North Dakota Agricultural College:

Keep each separation by itself till it cools to about 50 degrees F. before mixing it with the cold cream. If warm cream is mixed with cold cream bad flavors are sure to develop. They will develop any way if the cream is kept too long. Is best to churn every three days at least.

J. M., Clay Center, Kan., a farmer's son, writes: "The reason the day and month laborer dislikes farming, and especially dairying, is because he has to do chores on Sunday and work during all kinds of weather."

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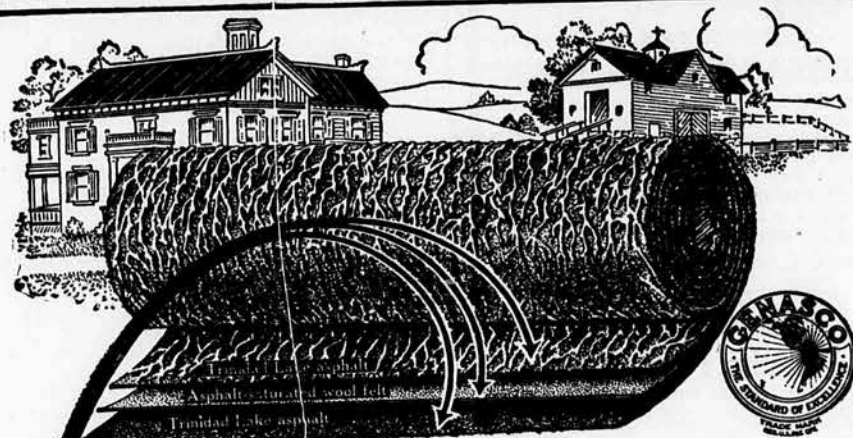
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Don't be afraid of White Diarrhoea, Kellerstrass' Remedy stops it quickly. Sold in 25c, 50c, and \$1.00 sizes. If your dealer cannot supply you send direct to us. Get the Kellerstrass Book telling HOW TO MAKE MONEY IN POULTRY. How to start; how to select layers; what to feed; what to do for sick chicks and old birds.

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POULTRY



Among poultry raisers at this time of the year there is a hustling after setting hens or incubators so as to get early chicks.

But the old adage, "Make haste slowly," is a good one to follow, even though the lure of a chicken fry has got hold of you in dead earnest.

Stronger and harder chicks are claimed in early hatches, but remember that any time between now and May 1 can be counted upon as favorable for an early hatch.

Extra early hatches are not desirable, for the good reason that generally there comes a cold spell that gives a decided setback to the young chicks.

And unless the chicks can grow right along, without any severe set-back, they will never amount to anything, but become stunted and dwarfed as long as they live.

So don't be in too great a hurry to set the hen, for after the weather gets settled the chances for the survival of the chicks will be much greater than if hatched in February or March.

Oftentimes the first clutch of eggs are infertile, owing, it is claimed, to the fact that the hens are too "fat" and have not had sufficient exercise.

Before sending out eggs for hatching purposes the poultryman ought to be reasonably sure that the eggs are fertile, otherwise he comes nearly being under the head of fraudulent persons.

Sometimes a breeder has such a demand for eggs that he sends them out before he has a chance to test them himself. In such a case when complaint is made of infertility he ought to be willing to make things right with his customer.

But the better way is to set some of the eggs himself at first, and then he knows what he is doing and can vouch for their fertility. Or, if he finds them infertile, he will not sell any eggs until the time comes when he can guarantee them to be all right.

For it often occurs that the first few dozen of eggs prove infertile, but after the hens have rid themselves of their superfluous fat the next eggs prove normal and are as fertile as one could wish.

The honest poultryman will always see to it that his customers get fertile eggs, for it is the fertility, or the stock in the eggs, that the customer pays for when he pays a big price for eggs for hatching, and not merely for eggs.

Columbian Wyandottes.

Of all the varieties of poultry produced in the past 40 years, none is attracting more attention at the present time nor seems more assured of a permanent success than the Columbian Wyandotte.

This comparatively new variety of the great Wyandotte family was first shown at the St. Louis World's Fair in 1904. As it was then in its making and in a crude form, it received but slight attention except from a few far-seeing poultrymen who had foresight and penetration enough to see that in the hands of experienced and capable men who knew what they wanted and how to go at it to obtain results, that it held the promise of developing into what had been so long desired and for which so many have worked to obtain, namely, an all around, practical, all-purpose fowl that could combine in one variety the most desired qualities of several breeds with the fewest of their faults.

To this end a few practical, thorough-going men bent all their energies, with a success that has amazed even the most ardent admirers of this beautiful member of the Wyandotte tribe.

We Americans are a practical people. No matter how odd or beautiful a fowl may be, it attracts but little notice at our large poultry shows unless it combines with its beauty the element of practical worth. This is clearly seen at all our shows.

The fowl that lays the eggs, makes the earliest and juiciest broilers and fries, costs the least to raise in time, trouble and money, and then when the days of usefulness are over can be sold on the market for the highest price, is the fowl whose coops are always surrounded by the most interested throngs. Now, with many years experience as a breeder and in the show room, we find the interest is practically united in the different varieties of half a dozen great breeds, principally the American, and of these, to our notion, the Wyandotte and Plymouth Rocks come first, with Rhode Islands close behind. Our article, however, is about the Wyandotte, and of the variety of that family that has struck us the most favorably, namely, the Columbian.

This variety does not differ very materially from the others except in color, although with us they have proven the best all around year around layers we ever bred of any kind.

In shape all the varieties of Wyandottes should be the same, although as yet we believe the White Wyandottes have reached the highest state of perfection in that respect.

To those unaware of the Columbian's origin we will state they were produced by crossing the White Wyandotte with the Light Brahma, thus getting the early laying and maturing qualities of the Wyandotte with the hardiness and beautiful plumage of the Light Brahma. As every breeder knows, the Brahma and White Wyandotte are both famed for hardiness and winter laying.

In the hands of experts who know how to produce Brahma coloring the advancement of the Columbian in this respect has been most gratifying and amazing, and while we cannot hope for years to come to produce the perfect markings of the best Light Brahmas, that time will come before we are aware of it. Even now we have birds that compare most favorably in this respect, and the large classes that are now shown at our greatest shows are causing a demand for stock that will take years to supply. The beautiful combination of colors, the sharp, clear contrast of black and white are excelled by no other breed. Added to this their beautiful contour of form, early maturing, producing fries the first, plump, juicy, well-rounded bodies, unexcelled laying qualities the year around, freedom from sickness, and active hustling qualities, and you have, in our opinion, the greatest fowl before the public.

We now have eight varieties of the Wyandotte family, the Columbians the last and greatest of them all, and destined when it becomes more widely known to outstrip its sisters in popularity.

A fine paper called the "Wyandotte Journal," devoted exclusively to all varieties of Wyandottes, is now published at Nashville, Tenn., by Y. Reid Parrish.

We now have fully 2,000 Columbian Wyandotte breeders and a National Columbian Wyandotte Club growing rapidly and numbering over 450 members. Ralph Woodward of Granby, Mass., is secretary, a live wire, and a thoroughly practical business man.

The club furnishes an annual catalog containing the names of all members and is replete with good articles from the pens of our foremost breeders. All members are eligible as competitors for club premiums.—H. A. WATTLES, Wichita, Kan.

Mrs. Horner Buries the Hatchet.

Dear Sir: "I noticed Mrs. Selberg's remarks in your recent issue, and if it will help others, you may say I have used Walker's Walko Remedy seven years. I used to have lots of trouble with roup until I found this remedy. I have cured cases that were frightful, but I don't have any trouble any more; I give it right along as a preventive. If my birds catch cold or are exposed, I give a little in the drinking water and it stops it right away. I use it also for bowel trouble in little chicks—it's the best thing I ever saw. It prevents bowel trouble or white diarrhea; makes them grow stronger and feather quicker." Readers can get it by sending 50c (M. O.) to the Walker Remedy Co., E3 Lamoni, Iowa.—Mrs. LOU HORNER, Davis City, Iowa.—(Adv.)

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Belle City Incubator Co., Box 18 Racine, Wis.

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Topeka, Kansas

THIS is the announcement of Topeka's first annual automobile show. There is no doubt but that this show will prove as popular as the shows in the larger cities, which shows have been greeted by tremendous crowds. An automobile show interests everybody—owners of autos or motorcycles as well as those not owners. This is because those who do not own gasoline machines contemplate becoming owners at some time.

The opportunity to inspect a half hundred of the different leading makes of automobiles and to witness the demonstrations is in itself an education. To meet and mix with the people who attend such shows will be a profitable and pleasant privilege. Special entertainment usually not given at an automobile show has been provided by the Topeka management for the patrons of Topeka's first show. One of the city's good orchestras will be on duty afternoon and evening. Two vaudeville performances will be given daily, one in the afternoon and one in the evening. The acts making up these shows will be "different." The entertainment committee insists that this vaudeville show will be the best ever given in Topeka. So you see entertainment is actually provided for everybody whether interested in automobiles or not.

Society night will be one of the big events. Topeka's society people have been for weeks talking about this affair. There will be special music and special decorations for that occasion, and those who attend will be attired in full dress.

We are living in the age of gasoline. The automobile has forced itself upon us. We can no more get away from the use of the automobile and the motor cycle than we could from the use of the telephone, the telegraph, sewing machine, wheat binder, etc., when their invention was perfected. The automobile is one of the things demanded by the times—for some users it is an economy, for others a source of pleasure and relaxation made necessary by the strenuous pursuit of daily labors. Most people are now doing more work in a day than their grandfathers did in a week. To relieve the strain, to repair the damage done the brain and body, a strenuous method of relaxation is required. The automobile seems to fill the bill. Business is forgotten the minute a man takes hold of the steering wheel.

The farmer needs the automobile as badly, if not worse than does the man who is penned in an office all week long. The farmer works as hard with his head and harder with his hands, and besides in his business time is an important factor. He must go to town in a hurry—maybe its repairs for the wheat binder or header, something that is wanted for the thresherman, or it may be cream or eggs to market, a pure-bred hog or calf to be shipped on a hurry-up call. The automobile takes him to town in a hurry—lets him do his business quickly, and gets him back to the farm to do what needs doing. His family finds pleasure they had not dreamed of, too.

Kansas farmers to the number of about 15,000 own automobiles. Several thousand own motor cycles. Many thousands not now owners contemplate buying soon or are looking forward to the time when they can and will buy. There is education and pleasure in looking over these gasoline rigs, and every one of every make will be on display during the above dates.
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When you buy an Overland, as compared to others, you get it at wholesale. Buying materials for 40,000 cars makes our production cost the lowest in the world. And you save the difference.

We have all models at our show room, including each model with electric starter and lights. Call and inspect our cars, and ask for demonstration, or meet us at the Topeka Automobile Show, February 24 to March 1, inclusive.

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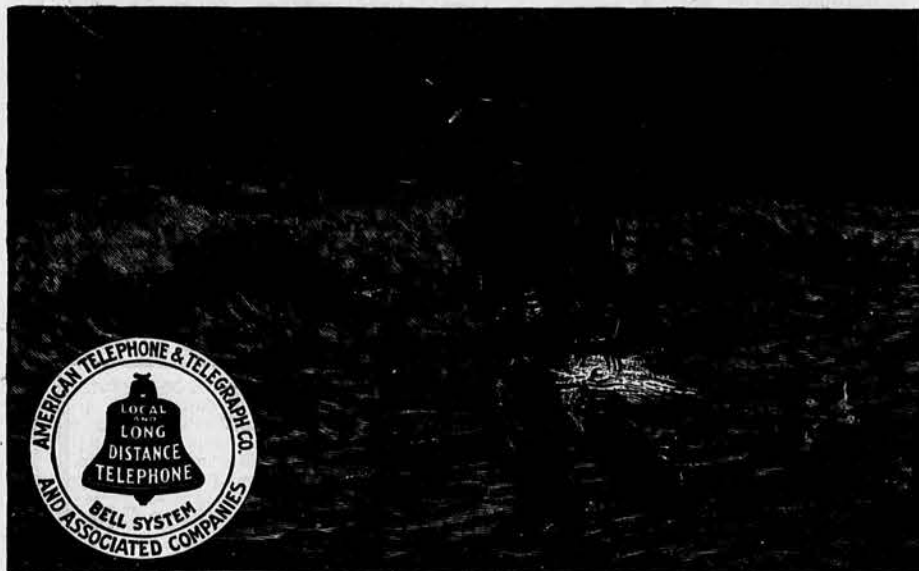
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When writing our advertisers say you saw the advertisement in KANSAS FARMER. That insures to you the full benefit of the publishers' guarantee. See top of editorial page.

Horticulture

Farm Grounds and Park Bedding.

Those large beds of cannas, surrounded by salvias, which you admire so much in the city parks, are very easily provided and are certain to produce a good effect. Their reliability is what appeals so strongly in the case of their use in the city parks. Of course they are of various sizes and shapes, but an eight-foot round bed is a good size and easily planted and cared for.

Select full sun for your bed, if you can, spade deeply and pulverize thoroughly. Make a depression in the center six inches deep and four feet in diameter, and fill with manure from the horse barn, partially rotted if possible. Plant four or five cannas in a circle in this depression, eighteen inches from the center, and a row of salvias three feet from the center. The salvias should be about eighteen inches apart. When your cannas have started well, you can throw your wash water, slops, and an occasional pail of water from the well, if necessary, in the center depression. The salvias, being outside the depression, will not be kept too wet or over-fed, but will get some benefit from water soaking out to them.

You may think all this talk about planting cannas and salvias a little premature, but it takes preparation and you will need to get your plants ready. If you grow your salvias from seed, they should be started at once. Sow the seed in a box of loose mould, cover to twice the diameter of the seed and press the soil firmly. Water gently and thoroughly, and set in a warm place. Keep the soil moist but not wet. The seeds are slow to germinate. Rooted cuttings from your florist bloom much quicker but do not make as fine plants. You can plant strong dormant bulbs of cannas as soon as danger of the ground freezing is past, or you can plant started bulbs later. The dormant bulbs are cheaper and usually as good.

The best canna for bedding with salvias, in my estimation, is the Pennsylvania. This is a giant orchid flowered variety, a tall grower, with green foliage and deep red flowers that harmonize well with the bloom of the salvias. Italia is a very good orchid-flowered variety with an orange scarlet flower, bordered with a wide band of yellow. If a dwarf canna is desired, making a lower and more compact center, Chas. Henderson is a good red, Queen Charlotte, a good red and yellow, and Florence Vaughan the best yellow with no spots. All of these have good sized flowers of good substance, and green foliage. In planting cannas bear in mind they are heavy feeders and drinkers.

Many have asked me about planting canna seed, but if you can get the bulbs they are much better and not much more expensive. Your seedling clumps will not be one-fourth the size of a bulb clump, and the flowers seldom amount to much; nor can you be sure of uniformity, either in size or color. The seeds are large, rather expensive, and hard to germinate. If you want to try the seeds, pour water over them, as hot as you can bear your hand in, and let cool. A small round patch of the shell will be loosened on some of them; remove these and plant at once and give the others another bath in hot water. All that remain stubborn after three or four trials you can file through the outside shell and plant with the rest. You could file them all at first, but they would be more apt to rot before starting.

If you wish to border your bed with geraniums, dusty Miller, nasturtiums, or other border plant, you can make it ten feet in diameter and have room for a row of these eighteen inches outside your salvia row. Alphonse Richart is one of the best geraniums for the purpose. It is a scarlet bruant that stands the sun well, and has large fine foliage. The bruant type of geraniums is much the best in foliage, plant and flower, and I cannot recommend any other except in whites. I have never had a good white bruant, none to compare with La Aube in the single zonale type. The best bruant, in addition to Richart, are Castillane, a deep crimson; Jean Viand, a clear pink; Beauty Poitevine, a salmon pink; Madam Jaulin, shaded from white to pink, and Thomas Meehan, a rich magenta. There are several fancy geraniums for pot plants that are fine, but they are dull and very unsatisfactory outdoors. Mad. Bruant, Queen of the Fairies, Montesqueen and Dryden are among these.—L. H. COBB, Dunavant, Kan.

Didn't have nearly enough spuds to last, did you? Plant more.

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We have just published a wonderful new book entitled "Clover, the Great Cash Money Crop." This book is truly a most remarkable source of information on the subject of clover raising. For the first time the opinions and experiences of the world's greatest clover authorities and practical growers have been gathered together in printed form. Every question you can think of is fully answered. It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and more milk—that puts immediate cash money in your pocket. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; it tells all about the causes of "clover sickness" and how to deal with it. These and hundreds of other questions are answered, covering sixteen clover varieties, including Red, Mammoth, Crimson, Alsike, Sweet, White, Yellow, Japan, Berseem, Burr, Serradilla, etc.

This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

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The GRANGE

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Secretary.....C. M. Freeman, Tiptecanoe City,
Sec'y.....C. M. Freeman, Tiptecanoe City, O.

The National Grange.

The number of Granges organized and reorganized from October 1, 1912, to December 31, 1912, both inclusive, is as follows: Organized—California, 1; Connecticut, 1; Idaho, 6; Illinois, 1; Indiana, 2; Iowa, 1; Kansas, 3; Kentucky, 2; Maine, 1; Massachusetts, 7; Michigan, 6; Minnesota, 5; Missouri, 5; Nebraska, 16; New Jersey, 1; New York, 15; Ohio, 7; Oregon, 2; Pennsylvania, 14; South Dakota, 6; Wisconsin, 4. Total, 106.

Reorganized—Kansas, 1; Michigan, 1. Total, 2.—C. M. FREEMAN, Secretary National Grange, Tiptecanoe City, Ohio.

Michigan's Grange Primary.

The Grange in general has been an advocate of the direct primary, and this year the Michigan State Grange practiced the theory by holding a primary for the selection of candidates for State Grange offices. Like any new plan it was found that there were weak points and drawbacks, which can easily be remedied, according to the statements of those friendly to the plan. The limited time prevented the getting out of the ballots in time and some of the Granges did not receive their ballots until too late and so lost their voice in the primary vote. Evidently the Michigan Grangers in general believe in the primary system of nominating officers for State Grange positions, as those so nominated this year were elected at the State Grange meeting. The delegates decided in favor of its continuance and many of the drawbacks will be removed this year. The time has been changed and the ballots will be sent out a month earlier next year so that all Granges will be sure to have a vote in the primary. The Granges of many states have been watching the trial of this plan in Michigan, and no doubt other State Granges will try the plan.

Grange Anniversary.

Saturday, February 8, the members of Sunshine Grange No. 1443, with their families and friends, assembled at their hall for the celebration of their seventh anniversary. The date of organization of this Grange was February 9, 1906, and it has been fittingly celebrated every year since.

At noon the tables were in readiness, fairly groaning under their burden of good things, to which the patrons and their guests did ample justice. After dinner the following program was given:

Song—Grange Choir.
Address of Welcome—Worthy Master William Freienmuth.

A letter from Worthy State Master A. P. Reardon.

Recitation—Miss Olive Noble.

Solo—Mr. Fred Needham.
Address—County Farm Adviser P. H. Ross.

Address—Grange Critic H. V. Needham.

Song—Grange Choir.

In a summary of the work of the year just past it was shown that while our Grange has made no great gains in membership, there has been a firmer cementing together of fraternal co-operation. As our Worthy Master stated, 20 good working members are worth more than 200 who do nothing. A goodly number of live topics have been discussed to the betterment and education of all participating. We look forward to a year of prosperity and further Grange helpfulness.—ESTELLA LEIGHTY, Secretary.

How May We Prepare for Efficient and Effective Citizenship?

Stopping to consider this subject, I find it so deep that I can only touch on some of the topmost points, and I want to tell you in the beginning that I find myself unequal to the occasion.

Good citizenship consists in loyalty to the best, in being successful in our business, whatever that business may be, and in fulfilling now the purpose of today.

Woman was born to be man's equal—

\$2,000,000 Buried

By R. E. Olds, Designer

In Reo the Fifth we bury at least \$2,000,000 per year where few men ever see it.

That's somewhere about \$200 per car.

But years of use will always show one what this buried money buys.

Not in the Price

This extra hidden cost doesn't show in the price.

We save it by unusual factory economies. By building all our own parts—by not changing models. By carrying efficiency to an extreme.

We save 20 per cent in one way alone—by building a single model. And all those savings go to pay for things like these:

Where They Go

In Reo the Fifth we use 190 drop forgings, to avoid all hidden flaws. Steel castings would cost half as much.

We use 15 roller bearings—11 of them Timken. The common ball bearings cost one-fifth as much.

We use tires 34x4, at a cost of \$60 per car over smaller tires. But you save this cost over and over in lower tire upkeep.

We use a \$75 magneto—a doubly-heated carburetor—a centrifugal pump—14-inch brake drums—2-inch, 7-leaf springs.

We use genuine leather upholstery, filled with the best curled hair. Flush electric dash lights. Nickel trimmings, even under the hood. A 17-coated body.

Costly Caution

Each lot of steel is analyzed twice. Gears are tested in a crushing machine, to stand 75,000 pounds per tooth. Springs are tested for 100,000 vibrations.

Each engine is tested 20 hours on blocks and 28 hours in the chassis. We make three unusual tests.

Ideal Center Control

The leading cars now have left side drive. Also the center control.

But in Reo the Fifth all gear shifting is done with one small cane-shaped handle. It is done by moving this handle only three inches in each of four directions.

It is done with the right hand, without any reaching. It's as easy as moving the spark lever.

Parts are ground over and over. Tests and inspections are carried to extremes.

Then we insist on big margins of safety. All vital parts are given at least 50 per cent over-capacity.

And we limit our output to 50 cars daily so no man is ever hurried.

Each Car Perfect

The result is this:

Every buyer gets a flawless car. He gets a car fit for any strain. His cost of upkeep is cut to the minimum.

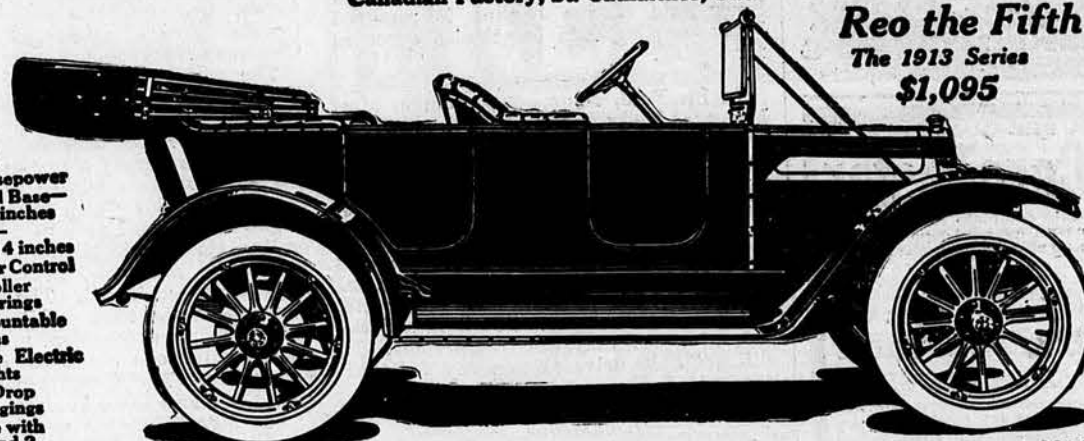
Men are learning the need for a car like this. The demand has grown far beyond our output.

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190 Drop
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5 and 2
Passenger
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Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for \$100 extra (list price \$170). (341)

his partner, and not a silent partner, either.

Reading good books and the farm papers and magazines prepares us to discuss the subjects of public interest with our fathers, husbands and sons. The advanced home life of today is a growth extending back to the days when our remote ancestors wore skins for clothing and lived in caves, and it has taken thousands of years to attain our present high standards of citizenship.

We must study the questions of vital interest to us as a nation, and the one that appeals to me as being the most serious is the immigration into this country of lower classes of foreigners. The cheap labor has a disastrous effect on white labor, almost monopolizing some lines.

Another thought: When a woman does the same work as a man she is entitled to the same wage. If better wages were paid to working girls there would be less crime and more good women citizens. Statistics show that about three girls graduate from our high schools to one boy. This shows that women are attaining higher standards of intelligence and greater appreciation of the rights, duties, privileges and responsibilities of citizenship. Women will now have to educate themselves for their new position and not be influenced too much by their husbands. They must have minds of their own, consider what is best, and then vote for it. For does

not history show that the world owes most of its glory and all of its grace to the men that are dead and the women that are living?

And last but not least, to be a good, wide awake Granger and attend the Woman's Work Committee meetings, helps to pull us out of the rut that many of us farm women fall into. There is, in attending these meetings, a brain value, a social value, a moral value, and a civic and financial value, and it cannot help but prepare us for more efficient and effective citizenship.—MRS. LYNN MITCHELL, Equity Grange, Lone Elm, Kan.

Notes from Lone Elm Grange.

Don't be an insurance Granger. Go in for all it is worth, and make it worth more.

Don't call attention to your failures by crowing too loudly over your successes.

Don't forget to use the scraper and door mat. 'Twill save the broom and mop.

Don't forget to wear your rose-colored glasses. They help a lot.

Don't expect success to meet you half way.

OUR CONTEST.

In my report to the State Grange I spoke of a six months' contest that was then in progress in our Grange. It is ended now, and thinking it might help

some other Grange I will write it out, with results.

| | Points. |
|-----------------------------|---------|
| Applications..... | 50 |
| Reinstatements..... | 50 |
| Officers present..... | 10 |
| Members present..... | 5 |
| Recitations..... | 20 |
| Readings..... | 15 |
| Orations..... | 25 |
| Discussions (for each)..... | 5 |
| Solo..... | 20 |
| Quartet..... | 20 |
| Quotations..... | 5 |

The lecturer appointed two leaders who chose sides just as we used to in a spelling match, and the defeated side entertained and feasted the winners. The lecturer acts as umpire. Choose officers first so that each side will have the same number—six.

When I tell you that one side made 2,000 points and the other 2,300 you will readily see that good work was done. There were 29 new members added to our roll and three reinstatements. The lecturer must be ready to assist the leaders in any way possible when called on. In launching the contest it is well to put it to a vote. If any other Grange tries this I would be glad to see a report of it in KANSAS FARMER.—ADELLA B. HESTER, Chairman, Lone Elm, Kan.

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In buying fruit trees you ought to know the blood that is in them.

We propagate our stock from known trees, selected because of their superior fruit and productive-ness. Our trees bear young and produce big reg-ular crops of fancy fruit, because they are bred from parents with a record for both quantity and quality. Observe orchards of ordinary trees, half of them are barren, or producing poor quality. You can save three to four years, and have every tree a producer of fancy fruit, if you plant our pedigreed fruit trees.

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100 Strawberry plants 75 cents. Charges prepaid. Send for further information and Catalog. Address, **HOLSINGER BROS.,** Box 83, Rosedale, Kans.

HOME CIRCLE



A cheap process of making rubber chemically has been discovered, it is said.

The Missouri champion hen with a record of 281 eggs in twelve months is said to have sold at Springfield for \$800.

To hurry the cooking process of any-thing cooked in a double boiler, add salt to the water in the outer boiler.

It has been estimated that the crop value of pecans in central Oklahoma this winter will reach more than \$500,000.

When frying croquettes in deep fat, stand them in a warm place for half an hour before frying. This will make them brown more quickly.

When baking a loaf cake, try cutting a cross in the center of it just as it goes to the oven. This will prevent it from humping up in the middle as it bakes.

One housekeeper writes that she stitched entirely around her lace curtains close to the edge before laundering them and the result was most satisfactory. They not only hung straighter, but the scallops did not split or pull out when the curtains were put on the stretcher.

When baking a fruit cake set the pan containing the cake in another pan partly filled with water. This makes a moist cake, also it is less likely to be burned. It will require a little longer time to bake.

If you have a jabot which is difficult to iron on account of its plaits, baste them in place with a fine thread before it is washed. After ironing the jabot remove the threads.

Fried bananas served with broiled bacon are said to make a nourishing lunch-oon dish. Be careful that all of the inner skin of the banana is removed before cutting into lengthwise quarters for frying.

In St. Paul, Minn., two women, Mrs. Margaret Kelly and Mrs. William Moore, have been appointed regular members of the police department. They were as- signed to halls where dancing was con- ducted for their first duties.

To Drive Away Large Black Ants.
Get 5 cents' worth of tartar emetic. Mix up half the quantity with sugar and water to a thin syrup. Put it in a little dish wherever they are troublesome. It will not only drive them away for that season, but they will not come back.

Lemons.
Lemons may be kept fresh a long time by placing under an earthenware crock. A few drops of lemon juice put into boiling rice will keep the kernels distinct and make them very white.

The juice of half a lemon in a glass of unsweetened water taken before break- fast will ward off a bilious spell.

Wash the hands and finger tips in lemon to remove all sorts of stains.

A gargle of water and lemon juice will cure a sore throat.

A slice of lemon dipped in salt will scour brass utensils. Rinse well.

Castor oil taken in lemon juice is pal- atable.

A few drops in fruit juice that does not want to jell will bring about the de- sired result.

A lemon in a dish of apples or other fruit will impart a delightful bouquet to the fruit.

After a shampoo rinse the hair in water that has some lemon juice in it. It will cut any grease that remains and render the scalp extra white.

Movable Schools For Women.

Any small town in Kansas that desires to have a movable cooking school next spring should notify the agricultural col- lege now. The schedule for these travel- ing educational institutions, of which there will be several this year, is being made in the extension division of the college. These schools will be held this year in March, April and May. Miss Francis L. Brown is arranging the dates. To get a cooking school for a week a village community must organize a class of twenty to forty women, and girls more than fifteen years old. This

class must arrange for a room in which the instruction is to be given and must pay the expenses of the school. Except in a very few cases no movable schools will be held in a town where domestic science is taught in the high school.

In addition to the movable schools the college will send domestic science dem- onstrators to conduct one or two-day demonstrations in any place where at least fifty women ask for it. No charge, other than actual expenses, is made for these demonstrations.

Delicate Fabrics.

For cleaning delicate fabrics, this method, given by the Commoner, is said not to fade or injure the finest colors. Grate raw potatoes to a pulp, add one pint of water to one pound of the potato pulp; stir, and wash between the hands, then drain the water from the pulp through a fine sieve or cloth; let it stand in the vessel until the fine white starch settles to the bottom, then pour off the clear water, which is what you use for cleaning. The settlings are used for potato starch for stiffening fine ma- terials. For cleaning, sponge with the liquid, applying until all soil is removed, rinse in clear water and iron on the wrong side. For white silk, which may be passed through the water as through suds, add a very little borax to the water. Party dresses and white cash- meres clean beautifully by this method.

Where We Got Those Signs.

The signs we use for punctuation, the period or full stop, the comma, colon and so on, are not so ancient as we might think. Aristophanes, the Greek grammarian of Alexandria, is said to have been the first to use full stops, but the other punctuation marks, the comma, semicolon and colon, were invented by Aldus Manutius, a printer who lived in Venice in the fifteenth and sixteenth centuries. Our sign for a semicolon was the Greeks' mark of interrogation, says the Children's Magazine.

The present question mark (?) and the exclamation mark (!) have a similar and an interesting origin. The ! rep- resents the Latin exclamation Io, which was used to signify a cry of joy. When the Latin writers wished to signify joy they wrote this word, then, so that it might not be read as a part of the verse or line, they wrote the letters one above the other, and this, in rapid writing, soon developed into !. The ? came sim- ilarly from the first and last letters of the Latin word question, meaning ques- tion, written one above the other in the same way. The Q written quickly be- comes a ? and the o becomes a point.

The signs that we use in arithmetic are known to all, but their origin is not so familiar. The sign =, meaning equal to, was first used by Robert Recorde of All Souls' College, Oxford, in 1531. To save himself the trouble of writing the words "equal to" again and again, he drew two little lines equal to one an- other.

The sign for addition (+) is really a carelessly made p. from plus, the Latin word for more. The -, for subtraction, also comes from a shortened Latin word, minus, meaning less than, which was written m n s, with a horizontal stroke on top to show that it had been short- ened. Then the letters were omitted, and the stroke only written.

The multiplication sign (X) was in- vented early in the seventeenth century by Oughtred Etonensis, the most famous mathematician then in Europe. It was simply the + sign turned round, multiplication being a short way of do- ing addition. In division the Hindus used to put the dividend above the di- visor with a horizontal line between, and from this plan the Arabians developed the sign ÷, placing it between the di- vidend and divisor. The sign % for per cent has developed from ÷, once used for per cent as well as for division. The · used in decimal fractions was invented by John Napier, the man who also in- vented logarithms. The ∞ used in alge- bra to signify any indefinite number is the initial letter of the Latin word numerous, meaning a number.

If you ask some people to take your part they will take all you have.

Neither the miser nor the hog is of any use until he is dead.

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MAKING POWDER
THE ONLY HIGH-QUALITY Baking Powder sold at a mod- erate price

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PURE SEED BIG YIELD
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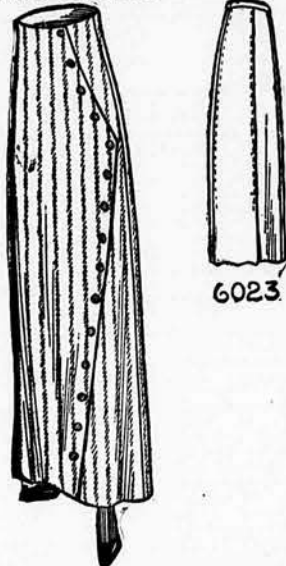
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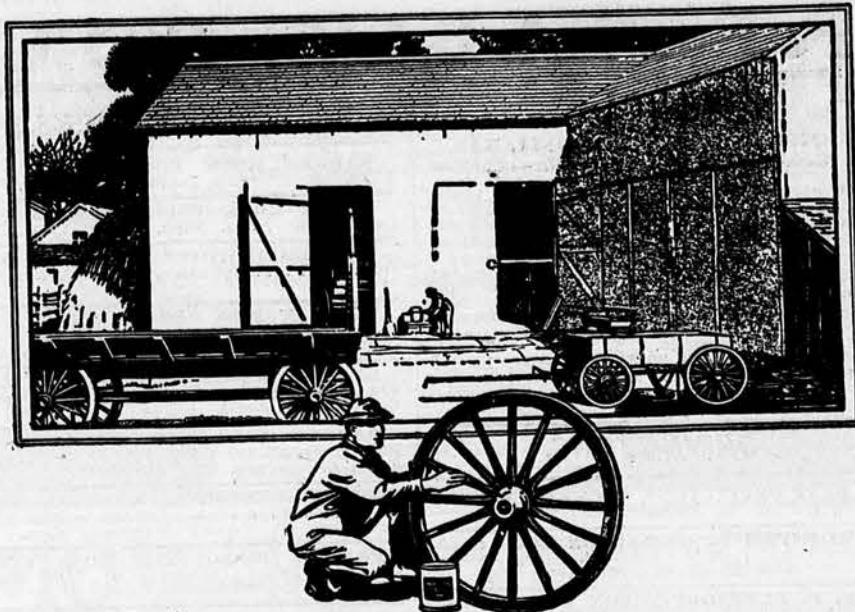
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160 ACRES, improved, 3 miles from Quenemo, Kan. Price, \$25 per acre. **168 Acres,** 4 miles from Quenemo, highly improved grain and stock farm. Price, \$9,000. Liberal terms. **320-Acre Stock Farm,** 4 miles from Quenemo; good improvements, never-failing water; 150 acres alfalfa land, 15 acres alfalfa. Price, \$40 per acre. Terms, 80 Acres, improved, 3 miles from town. Price, \$2,500. Terms. **THE EASTERN KANSAS LAND CO., Quenemo, Kansas.**

FARM FOR SALE

410 Acres, 70 acres bottom in cultivation, lots of timber, good living water, grass, good orchard, good buildings, house modern 28x30, two-story, good well and large cistern, barn 30x70 two-story. A fine stock ranch, 14 miles east of Junction City, 11 miles northwest of Alta Vista. Per acre, \$44. Terms reasonable. For further particulars write to **FRANK C. THIERER, Route 3, Alma, Kan.**

160 ACRES, 1 1/2 miles County Seat. 140 acres cultivated, 18 acres pasture, 2 acres timber on little creek. Five-room house. All good land. Seventy acres in wheat, balance will be put in oats. Price, \$6,500, easy terms. **160 Acres,** all in wheat, every foot smooth, half delivered to market; 3 miles railway town, 9 miles county seat; good rich German settlement. \$7,500, easy terms. Will guarantee 10 per cent on investment this year. **F. L. NEWTON, Clay Center, Kan.**

The farm I advertised before sold first week, like all live bargains, they go quick.

CORN, WHEAT AND ALFALFA LANDS and stock ranches, \$10 to \$15. Also city property. **Winona Land Co., Winona, Kan.**

EIGHTY ACRES Four miles of Ottawa, Kan. Price, \$50.00 per acre. **MANSFIELD LAND CO., Ottawa, Kan.**

OUR RED LETTER SPECIAL. Will trade your property. Get into touch with live wires. Guaranteed deal. List today. Write for particulars. **MID-WEST REALTY EXCHANGE, Riverton, Nebr.**

FOR SALE—24-section ranch in rain belt of the Panhandle of Texas. Well watered and fenced, close to high school and railroad. Plenty of farming land. **J. W. KNORPP, Groom, Texas.**

320 ACRES of good farm land in Gray County, Texas, improved, rented this year on shares. Three miles of station. Other land for sale. Write **J. W. KNORPP, Groom, Texas.**

CROPS WILL PAY FOR IT. 329 acres, all smooth, improved, only \$3,600, with \$400 cash, balance crop payments. Send for details and list of other snaps for cash or easy terms. **Buxton Land Co., Utica, Ness County, Kan.**

TWO BARGAINS. 100 acres near Olathe, well improved, fine, \$110.00 per acre. Fifty-seven acres, improved, best of Kaw bottom land, greatest bargain in the county. **AT KANSAS CITY'S DOOR.** Write for lists. **T. H. MILLER, Olathe, Kansas.**

150 THOUSAND ACRES Black and chocolate loam farm land in Texas. Price, \$7.00 to \$10.00 per acre. Full description and testimonials furnished free. Write me today. **E. M. GIFFEE, Blossom House, Kansas City, Mo.**

BEST TOWN TO LIVE IN. If you would like to live in the most beautiful city in the West, with unsurpassed educational, business and religious advantages, in a city clean, progressive, where real estate values are low but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the **SECRETARY OF THE COMMERCIAL CLUB, Topeka, Kansas.**

WE TRADE OR SELL ANYTHING ANYWHERE. The Realty Exchange Co., 18-22 Randall Bldg., Newton, Kan.

BUY or Trade with us—Exchange book free. **BERSIE AGENCY, El Dorado, Kan.**

EXCHANGES EVERYWHERE. Get our fair plan of making trades all over the United States. **Graham Bros., El Dorado, Kan.**

QUEEN ANNE COTTAGE in Kansas City, Mo., well located, strictly modern, to trade for small farm. Write **TRIPLETT LAND CO., Garnett, Kansas.**

WE CAN Save You Time and Money if you buy, sell and exchange property with us. All kinds of properties for sale. **Donwell, 3821 Wyandotte, Kansas City, Mo.**

Live Trades Would you trade if suited? Write for our list of snappy exchanges and listing blank. Describe property first letter. **Eberhard & Mellor, Whitewater, Kan.**

EXCHANGE—Will trade my equity in 80 acres, Saline County; 6-room house, barn, well and mill, cistern, chicken house, some fenced hog-tight, 50 acres cultivated, 1 1/4 miles to school, 3 1/2 miles to two towns, mortgage, \$3,600, at 6 per cent. For live stock, hardware, or clear rental. **ED. A. DAVIS, Minneapolis, Kansas.**

THE STRAY LIST C. C. STOTLER, COUNTY CLERK, WA-bansee County—Taken up by W. R. Banks, Wamego, Kan., on January 27, 1 red, white faced steer, about 3 years old, 5 feet, 3 inches high. Dupa cut down, branded "Z" on left side. Appraised value \$50.

FIELD NOTES Bayless & DeRo Sale. The big horse sale to be held at Blue Mound, Kan., by Bayless & DeRo, will be under cover so that the weather cannot make any difference. Read the fine advertisement on another page and be sure to go.

Toggenburgs. A. R. James of Galena, Kan., writes: "We had an advertisement of our Toggenburg milch goats in Kansas Farmer, and soon sold all of the does we had to spare. We got lots of inquiries. We only have two young bucks for sale now, but they are out of prize winning stock."

Newton Sells Land Easy. F. L. Newton of Clay Center, Kan., sends change of copy for the land card he is carrying in Kansas Farmer, and writes that he has sold the farm advertised last week to Mr. C. C. Lorimer of Great Bend, Kan. The propositions this week are good and should interest those wanting homes.

Roy Pugh of Clay Center, Kan., advertises a river bottom farm, located two miles from the good town of Clay Center. The price is reasonable and he will carry back over half the purchase price. Write him and mention Kansas Farmer.

No-Shammy And The Parcel Post

There's water in gasoline and kerosene. This causes the majority of your engine troubles. Your engine won't start to run with water in the carburetor—and water freezes. Nothing wrong with magneto or batteries—it's water in the fuel. Chamols skin will not take out all water—chamols fiber clogs the carburetor, causing trouble that's hard to find. We guarantee No-Shammy funnels will take all water and dirt out of gasoline and kerosene, or we will refund your money. That's fair? No. 1, 10 gallons a minute, \$3.00 each; No. 2, 5 gallons a minute, \$2.00 each, by parcel post. Send for interesting booklet, free. Just pin money to your letter and mail at our risk. **THE NO-SHAMMY PRODUCTS CO., 5704 HOUGH AVE., CLEVELAND, OHIO.**

GOING TO BUILD A SILO?

Send your name today for our silo book. Your choice of two famous silos. Get most authoritative figures on silage feeding profits and startling facts about

The Hinge Door and Lansing Silos

Hinge-Door Silo has the only practical door construction. Book Free—write quick. **CONTINENTAL CREAMERY COMPANY** Address Department 21 **Topeka, Kansas**

MAKE YOURSELF WORTH MORE BY STUDY AGRICULTURE, HOME ECONOMY MECHANICS

OVER 100 COURSES.

Reading Courses, \$1.00; Extension Courses, \$3.00; Credit Courses, \$4.00.

For Non-Resident Students, \$2.00, \$6.00, \$7.50.

Send for Correspondence Course Bulletin.

Sec'y H. L. KENT, K. S. A. C., Box A, Manhattan.

DIVORCE THE WASH BOARD SELF - WASH

Washes clothes without rubbing. If unsatisfactory, money refunded. Guarantee on every package. Send 25c today for package of 12 bricks—use one brick a week. Manufactured, sold and guaranteed by

The SELF-WASH CO., Desk K. F., Kansas City, Mo.

Golden Wyandottes. J. F. Ingamells of Clay Center, Kan., the Golden Wyandotte specialist, starts a card with us this week offering eggs from high scoring birds for the low price of \$1.50 per setting.

W. F. Fulton, the well known and successful Poland China breeder of Waterville, Kan., announces a sale of bred sows, fall boars and gilts and Jersey cows for April 18. Write any time for catalog and mention Kansas Farmer.

Jewell's Polands. Jewell Bros., Humboldt, Kan., make a change in their advertisement and announce a May litter of two boars and five gilts for sale. These Poland Chinas are highly bred and the neighborhood is free from disease.

Blank & Webb's Duroc Sale. The Duroc sale held by Blank & Webb at Oxford, Kan., on February 15, was a success. Thirty head averaged \$31.78 and the balance of the offering was late fall pigs and sold for about \$15 each. The herd boar, Ohio Eagle, by Ohio Chief, went to Samuel Drybread at Elk City, Kan. Mr. Blank and Mr. Webb were well pleased with the results of the sale. Col. Lafe Burger of Wellington, Kan., did the selling, and made a quick, snappy sale, selling the entire lot in about two hours.

Kyles Made Only Fair Sale. Local conditions were bad for the Ira Kyle & Son sale held at Mankato, Kan., February 12. Quite a lot of good breeders were present, but the fact that cholera prevailed in the locality and such a large per cent of the sows were bred late resulted in a rather low average. The top was \$50, that price being paid by W. A. Davidson of Simpson, Kan., for No. 1, a tried sow bred to Giant Chief Price. Following is a list of best sales:

| | |
|---------------------------------|---------|
| 1—W. A. Davidson, Simpson, Kan. | \$50.00 |
| 2—F. C. Strebel, Alton | 41.00 |
| 3—J. B. Gory, Formoso | 46.00 |
| 4—George Novles, Glasco | 40.00 |
| 5—Forest Vandorn, Cawker City | 30.00 |
| 6—J. W. Leeper, Norton | 37.00 |
| 8—P. Garman, Mankato | 40.00 |
| 11—Josias Lambert, Smith Center | 39.00 |
| 12—Floyd Lydel, Randall | 33.00 |
| 13—Francis Flinn, Formoso | 39.00 |
| 14—Francis Flinn | 30.00 |
| 18—Lew Beeler, Mankato | 34.00 |
| 19—W. Montgomery, Smith Center | 37.00 |
| 20—H. Barker, Cawker City | 50.00 |
| 21—M. T. Shields, Lebanon | 34.00 |

Bishop Bros. of Towanda, Kan., whose ad appears in this paper, surely have a splendid lot of good young stallions. In an open letter they say: "We are glad to announce to you that we have on hand fifty head of the best young stallions we have ever owned. They are all good colors, sound, and with plenty of bone, size, conformation, and carrying all the essential points and finish which go to make a typical high-class draft stallion. We have been very careful in selecting them to see to it that they were of the right kind, for it is of importance in a draft stallion that he be sound on his feet and legs, and one that will stay sound, for it costs no more to feed and develop the good kind than it does the poor kind, and in the end we have the kind which buyers are demanding. Our stallions are two, three and four years old, mostly two-year-olds. Our two-year-olds weigh from 1,600 to 1,900 pounds. Our three and four-year-olds from 1,800 to 2,150 pounds. If you are in the market for a good young stallion, we cordially invite you to visit our barns and inspect our stallions before you buy, for we can and will sell you a stallion for less money and a better value than any firm in the business, for the simple reason that we grow and develop almost all of our horses, and then keep our expenses at the barns down to the minimum. If you are in the market for a stallion, write us, or better, visit our barns in Towanda. They are the homes of the good ones, and if we do not show you the best lot of stallions in the United States for the money we will pay your railroad fare each way. And remember, we place as liberal a breeding guarantee on our stallions as can be found anywhere. We know they have been properly grown and will meet your expectations; and allow us to say right here, of all the stallions we have ever sold, every one has given perfect satisfaction, with only two exceptions."

When writing advertisers, please mention Kansas Farmer.

PURE SEEDS

THAT GROW—GENUINE—UNADULTERATED

50c COLLECTION for 10c

All packed in big envelope which is good as part payment on future orders. Good for 50c on orders of \$1.00 or more. Collection contains one regular 10c packet each of Champion Pickle Cucumbers, Matchless Tomatoes, Prize Head Lettuce, Southport Globe Onions and large G-B Mixed Sweet Peas. Nothing like equal value ever offered before. **BIG, NEW, ORIGINAL AND FREE DIFFERENT SEED BOOK** Shows largest collection of pure garden, flower and field seeds ever offered and at a big saving in money to you. Send for it right now and enclose with your letter 10c for the big 50c collection described above. Remember catalog is free.

Galloway Bros.—Bowman Co. Pure Seed Specialists **P. O. Box 386A WATERLOO, IOWA**

TIGHT SHOES—ACHING FEET

ABSORBENT HEEL ARCH CUSHIONS obtain immediate relief without increasing size of shoes. They elevate the heel, prevent the foot from pressing forward, therefore the foot appears more shapely. Valuable to Men and Women. 25 cts. by mail. State size of shoes.

WATERPROOFING for Shoes, make the old feel like kid, and look like new, softens and improves leather, tight shoes more comfortable, protects health. 25 cts. by mail.

WATERPROOFING is suitable for use on Vehicle Tops, Harness, Trunks, Satchels, and every article made of leather, or artificial leather. Large box 50 cts. Discount to dealers. Agents wanted.

Small sample piece Absorbent Cushion, also of Waterproof leather mailed if requested.

Easy Wear Shoe Co., - Newburgh, N. Y.



Get our Prices

Buy the Right Silo at the Right Price

and SAVE from \$25 to \$50 on the cost of your silo.

Made from the best of material and shipped on approval. Send for free catalog and price list.

INDEPENDENT SILO CO., 1515 Genesee St., Kansas City, Missouri. 272 Endcott Bldg., St. Paul, Minn.

SEED CORN

Silver Mine, Boone County White. Customers south say it pays to get my vigorous seed from the north. It's guaranteed. \$2.25 a bushel. **JOHN HAGGLUND, Essex, Iowa.**

Hopper & Son, Manhattan, Kansas Builders of

Concrete Silos

Write for list of silos we have built. Ask our customers about them.

FANCY SEED CORN

Boone County White, Reid's Yellow Dent and Hiawatha Yellow Dent. Catalog free. **J. F. HAYNES, Farmer Seed Corn Grower, Grantville, Kan.**

When writing advertisers, please mention KANSAS FARMER.

HORSES AND MULES



First and Grand Champion Belgian Stallions at American Royal, 1912, owned and exhibited by J. M. Nolan at Paola, Kan. Our barns are filled with Percheron, Belgian, French Draft and Coach Stallions, imported and home-bred, priced to sell. Come and see me. We can deal.

J. M. NOLAN

Paola

Kansas

PERCHERONS
BELGIANS
SHIRESONE OF THE
OLDEST AND
LARGEST
IMPORTERS
IN
AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.
BOX 29 LINCOLN, NEB.DIAMONDS IN
THE ROUGH

I am offering for sale at very low prices a fine lot of young Percheron, Belgian, French Draft and Coach Stallions. These horses are not fat, but in good, thrifty condition and will make good. Come and see me.

C. T. RICKETTS, Paola, Kansas.

PERCHERONS

FOR SALE—Our imported Percheron stallion, Lama 85204, weight 2,000; a fine breeder; one coming two-year-old Percheron with imported sire and dam; one extra good eight-year-old jack; a lot of extra good grade Percheron mares and geldings, and a lot of extra good mules from two to six years of age. Can match teams of horses, mares or mules.

GRIGSBY & BARBER, Skidmore, Mo.

Imported and Home Bred Stallions and Mares
PERCHERONS—BELGIANS—SHIRES

Percherons—Belgians—Shires. The best importation we ever made is now in our barns ready for inspection. The mares include some of the best fillies that came out of the Perch this year. See what we have before buying elsewhere.

Address, HART BROS., Osceola, Iowa.
HOME-BRED STALLIONS \$275 to \$650. Imported stallions \$700 to \$1,000, two higher. All draft breeds. Reference: Any banker in Creston.
FRANK L. STREAM, Creston, Iowa.

PERCHERONS.

Three coming 4-year-old; three coming 3-year-old; two coming 2-year-old stallions. Home bred. Registered P. S. A. Trains direct Kansas City, St. Joseph.

FRED CHANDLER, R. 7, Chariton, Iowa.

AL. E. SMITH STOCK FARM.

Black Mammoth Jacks and Jennets. Percheron Horses. You will find what you want in large boned, registered, 15 to 16 hands standard. Special prices on fall sales. Both phones.

AL. E. SMITH, Lawrence, Kan.

EXCELSIOR SHETLAND PONIES. Registered stock. Ponies for sale, reasonable prices. Spotted and solid colors. W. Fulcomer, Belleville, Kan.

GOOD YOUNG JACKS Ready for Service, \$300 to \$500. One Imp. 6-year-old Belgian. BRUCE SAUNDERS, Holton, Kansas.

HORSES AND MULES

PRAIRIE VIEW JACK FARM

LAWSON, MO.

Headquarters for Missouri, Kentucky and Tennessee Jacks; sold singly or in car lots. I guarantee more size, more bone and more good jocks and jennets than any breeder in Missouri. Every one black and from 15 to 16 hands high. Have them all ages. Thirty-five years doing business with the public, never had a lawsuit with one of my customers.

ED BOEN, Lawson, Mo.

Lawson 28 Miles from Kansas City.

REGISTERED JACKS

For Sale—Big, heavy-boned, smooth, well marked fellows. Some of them sired by the noted \$2,000 Missouri King that I formerly owned. Also have limited number of jennets for sale. We claim to own and have on our farm one of the best jennets in America. If we fail to convince you that ours are as good as can be found anywhere, railroad fare will be refunded. Full guarantee with every sale.

T. E. COLLINS, Belleville, Kansas.

PRIVATE DISPERSION

FOR SALE PRIVATELY

One extra heavy-boned black herd jack, 15½ hands high; one yearling jack; two large, fine jennets, and three registered Percheron mares. This stock is first class and will be priced for quick sale.

O. A. SCOTT, Athol, Kansas.

Mammoth Jacks and
Percheron Stallions

33 head of mammoth Jacks and Percheron stallions—33. Jacks from 2 to 6 years old, from 15 to 16 hands high. Percherons from 2 to 5 years old weighing from 1,800 to 2,000 pounds. Farm and sale barn on 21st, one mile east of union stock yards.

J. C. KERR, Wichita, Kan.

Mammoth Kentucky
Jacks

Nine black, mealy-nosed, heavy-boned fellows, 6 months to 7 years, weighing up to 1,000 pounds, and 15 hands high. Also 15 jennets, all ages. Inspection invited.

A. ALTMAN, Alma, Norton County, Kansas.

JACKS AND JENNETS

17 head large mammoth black jacks for sale, ages from 2 to 5 years; large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me.

PHIL WALKER, Moline, Elk Co., Kansas.

FOR SALE

Nine head mammoth jacks, all but one Kansas raised, from weanlings to 16½ hands, seven years old. Best stock. Fine, proved, and good getters. Write or come see them. Reference, Protection State Bank. Now is the time and here the place to buy.

MARK BROTHERS, Protection, Kansas.

J-A-C-K-S

Prize-winning jack, Black Dillingham. Also extra good 2-year-old jack, four extra good jennets, one Percheron stallion, and the great stallion, Sir Roderick, a grandson of Assistus, the sire of many fast ones. Also the great saddle stallion, Top Squirrel. Livery stock for sale. All priced right to close out.

A. B. DEAN, Dearborn, Mo.

Herd Jack For Sale

On account of other business, I am compelled to close out my jacks. The great herd jack, Easter, by Black George, and a great grandson of the famous show jack, Compromise; also outstanding 2 and 3-year-olds and one jack colt. They are priced to sell quick. A bargain. Come and see them.

R. W. MURPHY, Cosby, Missouri.

JACKS JACKS JACKS
I have an exceptionally good lot of jacks for sale. They are from 2 to 6 years old from 14½ to 16 hands high, black with white points. They are all big boned mammoth jacks, priced to sell. Come and see them. Lawson is 38 miles from Kansas City.
MOSS B. PARSONS, LAWSON, MO.

POLLED DURHAM CATTLE

ROAN HERO,
THE INTERNATIONAL CHAMPION, AND
ARCACIA PRINCE X 8079-308159

the first prize winners, head my herd of Double Standard Polled Durhams. M. P. Ry. 17 miles S. E. of Topeka, Kan. Farms adjoins town. Inspection invited.

D. C. VAN NICE, Richland, Kan.

POLLED DURHAMS.
One yearling bull and several bull calves sired by Roan Choice (junior champion of 1911), also a few young cows and heifers from the greatest show and prize winning herd in Kansas, priced reasonable.
C. J. WOODS, CHILES, KANSAS.

OXFORD DOWN SHEEP

Largest flock west of Mississippi River. Fifty rams, 100 ewes for sale. All stock sired by imported rams. 140 ribbons at the Iowa State Fair in last eight years. Call on or address, John Graham & Son, Eldora, Ia.

FIELD NOTES

Breeders should keep in mind the sale date of Richards & Son at Bevier, Mo., on March 19. They will sell a choice offering of Shorthorn cattle and Poland China hogs. The Shorthorn bulls, as well as cows and heifers, to go in this sale are the best blood of the breed. They will sell an extra lot of Poland China bred sows. Watch Kansas Farmer for further announcement of this sale.

Lamer's Big Draft Sale.

On March 13 C. W. Lamer will hold another of his big draft horse sales at Salina, Kan. This sale will be held in Lamer's sale pavilion so that weather conditions will have no effect. Full announcement will be made next week, but the date and place should be fixed in memory and a catalog written for right away.

Durocs That Made Good.

It has been almost ten years since the writer first called at the Star Breeding Farm. Each year we have noticed many valuable improvements about the farm, both in improved buildings and improved live stock. The Star Breeding Farm has been the home of some of the most noted Duroc herds known to the breed. B. & C's Colonel, Bell's Chief, Buddy K 4th and Red Advance have been used in this herd. On March 10 there will be 50 head of valuable sows and gilts sold that are closely related to the above boars. Most of the sows are bred to the great herd boar, Model Top. This hog was shown at Ohio, Indiana and Kentucky state fairs and won first and champion in all the classes shown. He was also the sire of Beauty's Model Top, a show hog that won at Missouri State Fair, 1911 and 1912. Model Top is probably one of as well bred boars and the sire of a lot of high class show stuff. The sows bred to this great sire should attract breeders' attention. The sale announcement appears in this issue and the catalogs are ready to mail out. Please read the ad and send for one. It is full of valuable information about the Star Breeding Farm of Durocs. For catalog apply to Samuel Drybread, at Elk City, Kan., and mention Kansas Farmer when you write.

Thiery's Piano Book.

Mr. J. B. Thiery, the piano and organ man Milwaukee, Wis., is sending out, free, postpaid, his beautiful new 1913 Style Book of Planos. This book, without a doubt, is one of the finest books of pianos ever printed, and it shows all the new 1913 Thiery pianos in mahogany, walnut and oak colors. Whether you are going to buy a piano for your home right now or later on, it will pay you to send to Mr. Thiery for this book and his special letter with straight to you prices and easy terms of payment. The book that Mr. Thiery has just issued contains scores of testimonial letters from homes that have purchased direct from him, telling of saving and satisfaction that will interest any home in the market for a piano. If you are not a cash buyer, he will give you from two to three years' time to complete payment and arrange the payments at times of the year when it is most convenient for you to make them. His full-page advertisement appears in this issue, and if you are ever going to buy a piano it probably will pay you to write to him at once for his style book and special price list.

H. L. Faulkner Makes Record Sale.

The popularity of the old original big-boned spotted Poland China hog was again demonstrated at Jamesport, Mo., February 12, at H. L. Faulkner's sale, when the record average price of \$91.50 on 50 head of bred sows was reached. It was one of the greatest hog sales ever held in the west, and buyers from all over the corn belt were in attendance. The bidding was spirited throughout the sale and the entire offering was sold in two and one-half hours. J. W. Troy of Rose Hill, Iowa, bought the top of the sale at \$200. The opening address was made by Col. Zack Wells of Kansas City, followed by Colonel Shepard. The selling was done by Col. J. W. Sparks. He was assisted in the ring by Colonels Wells, Nelson, Shepard, Deem, Carson, Thompson and Hartgrave. The following is a list of the principal buyers:

| | |
|------------------------------------|---------|
| 40—George Kurtz, Oregon, Mo. | \$40.50 |
| 37—P. Voorhes, Lewis, Iowa. | 62.50 |
| 24—Ed Hummel, Missouri. | 105.00 |
| 28—Otis Sheder, Kahoka, Mo. | 82.00 |
| 26—James Tanner, Odessa, Mo. | 142.00 |
| 27—Wm. Patterson, Bloomfield, Iowa | 72.50 |
| 4—Farley Broger, Jamesport, Mo. | 77.00 |
| 35—T. B. Robison, Clark, Mo. | 100.00 |
| 1—J. W. Demute, Belwood, Neb. | 185.00 |
| 2—H. H. Henderson, Salem, Kan. | 140.00 |
| 5—J. W. Troy, Rose Hill, Iowa. | 200.00 |

| | |
|--|--------|
| Lady Gray—Homer Dickerson, Jami-son, Mo. | 111.00 |
| 6—J. W. Troy, Rose Hill, Iowa. | 170.00 |
| 7—W. Hudson, Hemphill, Mo. | 105.00 |
| 8—E. R. Steed, Eudora, Kan. | 97.50 |
| 9—J. W. Demuth, Elwood, Neb. | 100.00 |
| 10—Wayne Hudson, Hemphill, Mo. | 77.50 |
| 11—J. D. Langdon, Browning, Mo. | 101.00 |
| 12—M. M. Demuth, Elwood, Neb. | 102.00 |
| 13—Edgar Dooley, Etterville, Mo. | 100.00 |
| 14—W. C. O'Bryon, Lancaster, Mo. | 84.00 |
| 15—P. J. Smith, Dallowood, Neb. | 80.00 |
| 16—C. Holt, Guthrie, Mo. | 104.00 |
| 17—J. M. Virden, Princeton, Mo. | 92.00 |
| 18—M. Elliott, Chillicothe, Mo. | 67.50 |
| 20—P. W. Adkins, Chilhowee, Mo. | 97.50 |
| 21—J. R. Smith, De Soto, Kan. | 72.50 |
| 22—D. F. Hensell, Deepwater, Mo. | 65.00 |
| 29—R. Wren, Gower, Mo. | 100.00 |
| 36—Gust Rope, Concordia, Mo. | 76.00 |
| 30—Edgar Dooley, Etterville, Mo. | 75.00 |
| 31—Heav' Berger, Jamesport, Mo. | 62.50 |
| 32—M. C. McNulty, Baring, Mo. | 77.00 |
| 33—H. J. Smith, Dilwood, Neb. | 100.00 |
| 34½—J. W. Demute, Belwood, Neb. | 101.00 |
| 38—W. J. Smith, Delwood, Neb. | 80.00 |
| 39—J. R. Smith, Desoto, Kan. | 68.00 |
| 3—Frank Boyd, Jamesport, Mo. | 68.00 |
| 19—F. M. Whitset, Hamilton, Mo. | 77.00 |
| 23—Alford Carson, Cleburne, Kan. | 61.00 |
| 25—T. J. Dunn, Moberly, Mo. | 57.50 |
| 34—J. A. Burton, Danville, Ind. | 55.00 |
| 41—T. B. Robinson, Clark, Mo. | 38.00 |
| 42—G. E. Amith, Plater, Mo. | 50.00 |
| 45—H. H. Henderson, Salina, Kan. | 51.00 |
| 46—H. H. Henderson, Salem, Kan. | 60.00 |

The following herd boars were also sold:
Billy Sunday to Edgar Dooley.....\$80.00
Big Jim to Thomas Finney, Kansas City, Mo. 50.00

TOO LATE TO CLASSIFY

WOLFE'S O. I. C. SWINE.
Large, prolific kind, March and April boars. Gilts bred or open. Fall pigs. Prices low. Pedigrees free. Write your wants.
D. W. WOLFE, Route 2, Carrollton, Mo.

HAMPSHIRE SWINE.

We have a few gilts and tried sows, bred to Sunny Brook 1st, 8493, he by the famous Pat May 1415, which we farrow during the month of April. We will offer these to the public for a short time at very reasonable prices.

WM. INGE & CO., Independence, Kan.

JERSEY CATTLE

THE ENNIS FARM

Horine Station, Mo.
(Thirty Miles South of St. Louis.)
JERSEY CATTLE—BIG-BONED SPOTTED POLANDS.

Send for quarterly bulletin listing stock for sale. Best breeding and individuals. Prices reasonable.

ALBERT S. ENNIS, Horine Station, Mo.

T. A. Wiles' Jersey Herd

Sixty Head of Registered Jersey Cows and Heifers. Some will be fresh soon, all by early spring. All bred to the splendid island-bred bull, Vestl Financial King 77626. Best blood lines and good individuals, priced right. Come and see them, or write, mentioning Kansas Farmer.

T. A. WILES, Maryville, Mo.

FOR SALE—One of the greatest young Jersey bulls ever bred. Sired by Eminent Cornet, by Eminent 2d, which sold for \$10,000. Dam of the calf is Sultana's Golden Tipsey, on official test will make a Register of Merit cow. Her dam gave 10,500 pounds milk, from which 740 pounds of butter was made in one year. Nice fawn color and elegant type.

R. J. LINSOTT, Holton, Kan.

BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale.

W. N. BANKS, Independence, Kan.

GOLDEN RULE JERSEYS.
Richly bred heifers and bull calves for sale. The blood of Golden Lad and other noted sires. Farm one mile north of town. Inspection invited.

Johnson & Nordstrom, Clay Center, Kan.

WINELAND FARM JERSEYS.
One of the strongest official record herds in the west. For sale, 10 choice young bulls, sired by Imp. "Duke's Raleigh," and other good bulls. Out of cows now undergoing or having authenticated tests. Also, 25 females of different ages. H. C. YOUNG, Lincoln, Nebraska.

50 HEAD Solid fawn colored, registered Jersey cows and heifers; a nice lot of springers; Forfarshire, Imp. Stockwell, Fox and Guenon Lad breeding. Three light fawn bull calves, St. Lambert blood.

S. S. SMITH, Clay Center, Kan.

REGISTERED JERSEY BULL.
BLUE BELL'S BOY No. 75800, half-brother to Noble of Oaklands; 5 years old; gentle. Price reasonable.

J. S. TAYLOR, Iola, Kan.

JERSEY BULLS.
For Sale—An extra good tried sire of Tormentor breeding. Cannot use any longer. Also, a 2-months-old calf of St. Lambert breeding. O. E. NICHOLS, Abilene, Kan.

GUERNSEY CATTLE

GUERNSEYS FOR THE DAIRY.
Dairying will be the salvation of the grain farmer and the stock raiser, and Guernseys are the most profitable dairy cows, grades as well as pure-breds. For building up a dairy herd from common stock there is none to compare with the Guernsey pure-bred sire. Send for our special list of young bulls, 8 months to 2 years old, from celebrated strains, for \$75 and up, to make room. A rare opportunity.

HELENDALE FARMS, Office 704 Cedar St., Milwaukee, Wis.

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Missouri Auction School.
(Largest in the World.)
The school that gives you practice in actual sales in their own auction rooms. Special four weeks' actual practice term opens February 3. Address
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The Missouri Big Type Hog Auctioneer.
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Live stock and farm sales auctioneer. The man that gets the high dollar and works for you like a brother.

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JOHN D. SNYDER,
Kansas Live Stock Auctioneer.
Write or wire for date. Hutchinson, Kan.
When writing advertisers, please mention Kansas Farmer.

FRANK IAMs' SHOW STALLIONS

Ikey Buyer:—
Get Into "Iams' Money-Saving Game." See Iams and his "Peaches and Cream" Imported Stallions, "Prize Winners," that he sells at \$1,000 and \$1,400 (few higher). Imported Mares—"Topnotchers"—at \$700 and \$1,000.
"Ikey," Be a "Wise Guy"—Buy "Show Horses" of Iams—who has crossed the Ocean 50 times for horses and sold 4,444 Registered Horses. "Iams' 30 years of success" makes him a safe man to buy from at Special Low Democratic prices. "Everybody Is Doing It."



are "up to the minute" and 10 years in advance. They are the "drafty, big-boned type"—"nifty, big black boys"—the real "medal winners"—sensational "show and business horses" of note, "ripe peaches" from the select "400." Big, classy "peaches and cream" "black boys." The "Iams brand" of drafty "top notchers," Iams' 1912 importation of Percheron and Belgian stallions and mares are in the "pink of condition" and ready for a "good selling." "Ikey boy," smile sweetly, and hundreds of Iams' satisfied customers "will sit up and take notice" that Iams, the "king pin" horse importer, is still "doing business" at the "old stand." Iams is "pushing" his horses to the front. The big "peaches and cream" "boys and girls" are attractions that can't be overlooked. Iams mesmerizes buyers with "real drafters" at "bargain prices" and having the "horses as advertised." Iams' "competitors" and "hammer knockers" are "boosting Iams" by their "knocks," until now he is known as the "millionaire horseman," and on "Easy Street," and growing fast. Ikey, "come on along" and sing Iams' song. He is selling these "aristocratic," fancy "black boys" cheaper than ever—or better horses for less money—\$1,000 and \$1,400 (few little higher.) Iams has

100 — PERCHERON AND BELGIAN STALLIONS AND MARES — 100

They are "models"—"humdingers." They are 2 to 5 years old, weigh 1,700 to 2,500 pounds, 80 per cent blacks, 50 per cent ton horses. All branded, "registered," approved and inspected by Governments of France and U. S. and certificates "stamped O. K." All "sound," "bell-ringers" ("Iams' kind"—need no "State Law" to make "them sound.") Many "prize winners" and "gold medal horses." Big, drafty "top notchers," with big bone, quality, style, finish and action to burn. They are "eye openers"—larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "buyer's hat." "Georgie," "dear," Iams made a "big killing" by buying his horses in Europe in October, 1912. "War scare," "dry weather," "bad crops," "close money" and "Iams' cash" caused the "prize winners" and "tops" to be thrown on the market for a "good selling." Iams "cut the melon" and bought the "rippers" at "knockout prices." Iams will give his customers the benefit of his "good buy." "Ikey boy," "come on down town"—see Iams—"Everybody Is Doing It."

Get Into Iams' "Get Rich Wagon" and Save \$1,000 on a "Top Stallion"

(and you wear the diamonds). Iams is a "big fly in the jelly" in the horse world. "He keeps the gang guessing." Iams sells "imported horses only"—(they win 90 per cent of prizes at big horse shows). No American-bred full bloods—no "auction stuff" or "peddlers' horses"—only "choice drafters" of big size, bone, quality and finish. Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D," waltz me around once again, "Ikey," land me at Iams' box office and importing barns. Full to "the roof" with "black boys" (and all must be sold). Reduced prices. All the world knows Iams and his "peaches and cream" horses. 1913 promises to be a bumper year to Iams and his customers. He saved \$300,000 to stallion buyers in 1912. Watch "Iams' smoke." Iams' 30 years of successful business make him a safe man to do business with. Iams sells horses "on honor." A boy or a lady can buy as cheap as a man. Iams' 1913 horse

Catalog Is An "Eye Opener." It Has a "Laugh" and a \$1,000

bargain in every line. A "bunch of gold" to stallion and mare buyers. It is full of the real "peaches and cream" stallions. It is the finest, most elaborate and original up-to-date horse book in the world. Iams, the "square deal" horseman, makes every statement in ad or catalog good—or you get the \$500 he hangs up. Iams guarantees to sell you a better

IMPORTED STALLION AT \$1,000 AND \$1,400

(few higher) than are sold to stock companies for \$4,000. Imported mares, \$700 and \$1,000. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance. Iams buys and sells every stallion himself. Saves buyers \$1,000 in middlemen's profits. He buys stallions by "train load." He speaks languages—(saving 20 per cent). He is not in the "stallion trust." No partners to share profits. He "pays cash" for his horses—and sells "top notchers" by "hot advertising" and having "the goods." "Big Ikey," leave your "happy" home and buy a "top" stallion or pair of imported mares (of Iams) that bring colts that sell at \$500 each. "Papa," don't let those "auction men" "hand you a lemon" in one of those "so-called" "American full bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." (Then we will "all wear diamonds.") Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams won't let you go without a peaches and cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half million dollars." References—1st Nat'l and Omaha Nat'l. Banks, Omaha; Packers Nat'l. Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL, NEBRASKA

Belgian and Percheron Sale

AT BLUE MOUND, KANSAS
THURSDAY MARCH 6, 1913

28 Head of the Best Draft Horses that Ever Entered a Sale Ring. 28

Twelve Imported Belgian Stallions, from 2 years to 6 years old.

Eight Imported Belgian Mares, six coming 2 years old, two coming 3 years old, and safe in foal.

Two Home-Bred Belgian Mares, one coming 2 years old, one coming 3 years old, safe in foal to imported horse.

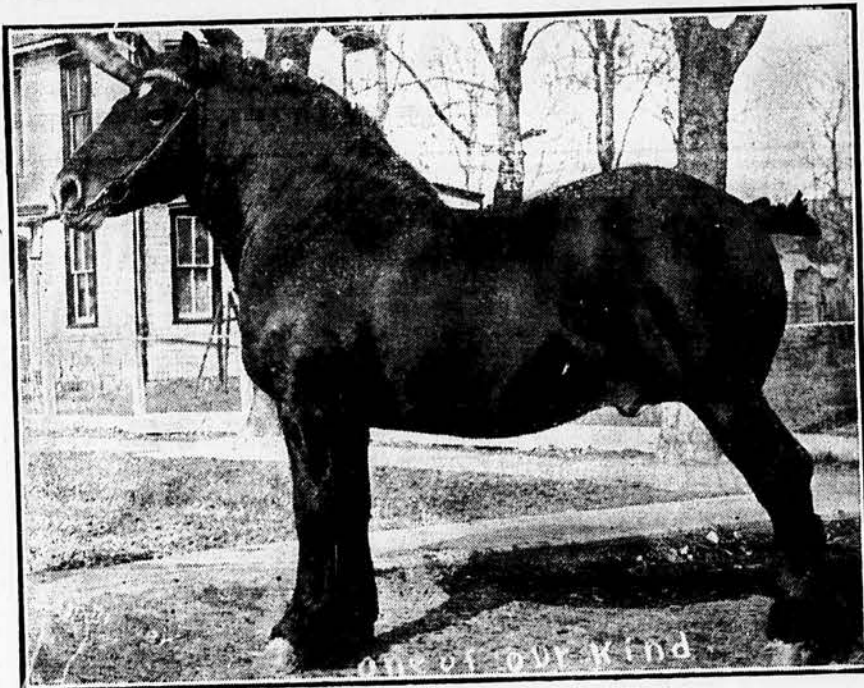
Six Imported Percheron Stallions.

One Registered French Draft Stallion.

One Cross-Bred Belgian Stallion.

Seven Jacks of serviceable age, broke to serve and sound, 14½ to 15½ hands.

Three Jennets.



ONE OF THE HORSES IN THE SALE.

Send for catalog at once and arrange to come to sale. Parties from the North or East can make good connections by the way of Garnett or Ft. Scott. Parties from South and West come by the way of Ft. Scott, Colony or Garnett.
Auctioneer—Col. R. L. Harriman.

W. H. BAYLESS - DERO & CO.,

Blue Mound, Linn Co. Kansas

Duroc Jersey Bred Sow Auction

At Clay Center, Kansas, Sat., March 1, 1913
25 Richly Bred Durocs and Good Individuals

THREE TRIED SOWS
TWELVE SPRING GILTS
FIVE FALL GILTS
FIVE FALL BOARS

The Sows and Spring Gilts are Bred for Spring Farrow to the Herd Boars, Miller's Advancer and Diamond King, a Nebraska-Bred Boar.

The offering includes granddaughters of G. C.'s Colonel, many of them sired by Blue Rapids Colonel. On dam's side many of them trace to McParker, a noted boar of Tip Top breeding. They will be sold in nice breeding form and not fat. Write for catalog.

R. R. MILLER, Clay Center, Kansas
Auctioneer, Jas. T. McCulloch. Fieldman, Jesse R. Johnson.



SUNFLOWER HERD HOLSTEIN-FRIESIANS

Never before have we had as choice a lot of young cows and heifers to pick from, in lots of one to a carload. Some twenty head to calve within next 90 days by sires of the best A. R. O. backing. A clean, straight, sound lot, all tuberculin tested. The calves from these cows should be worth half the purchase price. Come see the herd, or write for breeding and prices. Herd numbers nearly 50 head, all registered.

F. J. SEARLE, Prop. Oskaloosa, Kans.

Percheron Mare Sale

AT
GRAND VIEW, MO., THURS, MAR. 6

Five Percheron mares, bred to Gaulois, an imported Percheron stallion; one two-year-old stallion, one yearling filly, and 25 grade draft horses and mares. Sale at farm near Grand View, Mo., 12 miles south of Kansas City, on Frisco and Kansas City Southern Railways. Send for catalog and come to sale.

FRED B. GLOVER, GRAND VIEW, MO.
O. W. Devine, Fieldman.



ROBISON'S PERCHERONS

One hundred fifty percheron stallions, mares and colts. Fifty imported. All for sale.

J. C. Robison, Towanda, Ks.

The West's Largest Importing and Breeding Establishment. IMPORTERS AND BREEDERS OF

Percheron Belgians and Shire Stallions and Mares.
120 Head to Select From.

Our stallions and mares are strong and massive, with great quality, style and conformation, with splendid color and dispositions. They are selected with an eye single to the wants of the most critical American buyers, and we can sell them for less money than any one in the business, quality considered. The stallions will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Let us know your wants. We can suit you in both price and quality.

L. R. WILEY, EMPORIA, KANSAS



IMPORTED PERCHERON STALLIONS, JACKS AND JENNETS.

FOR SALE—5 imported black Percheron stallions, 4 to 6 years old; all tried and regular breeders; can show colts; weigh 1,800 to 2,200 pounds. One Morgan stallion, 7 years old. 10 large black jacks, 2 to 7 years old, all broke; good performers; can show colts and mares in foal. 10 head big black jennets, all bred to our imported jack. Prices reasonable. Write or come to farm 4 miles from Raymond or Chase. Our horses and jacks were shown at the Kansas State Fair at Hutchinson, September, 1912, in six different classes, and won in every class. Come and see us. **J. P. and M. H. MALONE, CHASE, KAN.**



Imported Stallions: Percheron, Shire, Belgian

Each year we show our new importation the same month they land. Each year they win more than all other exhibitors combined. At the American Royal this year they won second on 4-year-old Percheron; first, third and fourth on 3-year-old; first and third on 2-year-old, and first and champion group of five stallions. Our horses are handsome and the best to buy; our guarantee and insurance the very best.

PERCHERON IMPORTING CO., Chas. R. Kirk, South St. Joseph, Missouri.

50—PERCHERON STALLIONS—50

Bishop Brothers have 50 big boned stallions that weigh 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business, quality considered. Write us what you want.

BISHOP BROS., TOWANDA, KAN.

S. J. Miller's Percheron and Jack Sale

at Kirksville, Mo., March 6, 1913

Twenty-Four Head of Imported and Home-Bred
Percheron Stallions and Mares

Including such imported stallions as Incident and Introuvable and others equally as good. The mares are a lot of prize winners and are bred to the best Percheron stallions now in service. Fifteen mammoth bred jacks and an equal number of mammoth bred jennets. Will also sell saddle stallions and mares at private sale, Kentucky bred and registered. Catalogs now ready. Write for one at once.

S. J. MILLER, KIRKSVILLE, MISSOURI
Colonel Bellows, Auctioneer.

LaFAYETTE JACK FARM

HIGGINSVILLE, MISSOURI

MAMMOTH JACKS AND PERCHERON STALLIONS

TWENTY JACKS—Three to six years old; 14½ to 16 hands high. All black; all broke and guaranteed.
TEN PERCHERON STALLIONS—Two to eight years. Mostly imported. All guaranteed breeders.
Will Exchange Stallions for Good Jacks. One German Coach stallion eleven years old. One Belgian stallion five years old. Both sound.
Twenty jennets in foal to my champion jack, Dr. McCord.
ALL FOR SALE PRIVATELY—NO PUBLIC SALE THIS SPRING.

Visit or Write.
W. J. FINLEY HIGGINSVILLE, MO.

Fifty-five Miles East of Kansas City on C. & A. R. R.

L. H. LUCKHARDT AND OTHERS PERCHERON AND JACK SALE

At TARKIO, MO., MARCH 12, 1913

33 Head of Registered Percheron Stallions
and Mares and Mammoth Jacks **33**

Thirteen extra good mares, ten weighing 1,800 to 2,000 pounds. Several tried ton stallions. This entire Percheron offering has been carefully selected and is high class. The jacks to go in this sale are good ones, weighing from 1,000 to 1,200 pounds. Sale regardless of weather conditions. Send at once for catalog.

L. H. LUCKHARDT - - - TARKIO, MO.
COLONELS BELLOWES AND MANIFORD, Auctioneers.

W. T. Trotter's Second Annual Jack Sale

Mt. Ayr, Iowa

Thursday, February 27th, 1913

35 HEAD OF MAMMOTH JACKS AND JENNETS—35
14 big, high class jacks ready for service, well broken and good performers. My great herd jacks, Keno and Jumbo, will be sold in this sale, also the great 3-year-old Jumbo Lac. Some of the best 2 and 3-year olds that will be sold this year. A number of these jacks are from 15 to 16 1-2 hands high. The jennets are a select lot. Will also sell several imported draft stallions and a few roadsters.

COL. HARRIMAN, Auctioneer.

W. T. TROTTER MT. AYR, IOWA

IMPORTED DRAFT HORSES



I have now for sale a lot of personally selected coming 2 and 4-year-olds as good as France and Belgium can produce. Good heavy bone. Straight draft type with quality and the best of breeding. I give a gilt-edge guarantee, good for two years, with each horse sold. All in just good breeding condition and will be a good investment to the purchaser. I can save you some money on a stallion. Barns four blocks from the A. T. & S. F. depot.

W. H. RICHARDS, - - EMPORIA, KANSAS

LAMER'S PERCHERON STALLIONS and MARES

75 Head of Imported and Home-Grown Percheron
Stallions and Mares, at "Let Live" Prices

Two-Year-Olds That Weigh a Ton

C. W. LAMER & CO. Salina, Kansas

PARK & FIRKINS' PERCHERONS AND JACKS.

Imported and American-bred stallions. All blacks and grays, all registered in P. S. of America. Some ton 3-year-olds. Also Kentucky and Missouri Mammoth Jacks from 15 to 15½ hands high, heavy bone and good performers, registered. Everything sold with safe breeding guarantee. Barns in town, 50 miles north of Kansas City, on Rock Island Railroad, 35 miles east of St. Joseph on Burlington Railroad.

J. E. PARK AND A. A. FIRKINS, CAMERON, MO.

Breeders' Sale of Percheron, Shire, Belgian, German Coach and Road Stallions and Mares, also Four Jacks, will be held in sale barn in Cameron, Mo., on

THURSDAY, FEBRUARY 27th

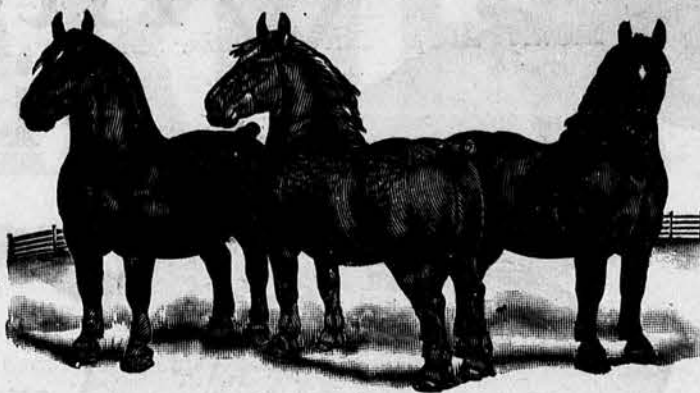
The following breeders are consignors to this sale: P. G. McCulley, Princeton, Mo.; Miller & Everett, Mill Grove, Mo.; Messrs. Lemley and Crawford, Trenton, Mo.; J. E. Roberts & Sons, Maysville, Mo.; Fred Ossman, Turney, Mo.; A. A. Firkins, Cameron, Mo.; Henry Cole, Altamont, Mo.; A. Schwalm, Clarksdale, Mo.; S. S. Langford, Craig, Neb.; J. R. Crutcher, Lisle, Mo.; E. B. Youtsey, Pattonsburg, Mo.; W. L. Cook & Son, Pattonsburg, Mo.; J. H. Weidmore, Clarksdale, Mo.; M. B. Parsons, Lawson, Mo.

An exceptional opportunity to buy the best that Missouri affords in draft horses and jacks. Write for catalog. It tells the story complete. Address, mentioning this paper,

THOMAS E. DEEM, Sale Manager, Cameron, Mo.

Auctioneers: COLS. SNYDER, NELSON and PARSONS

W. J. CODY, Fieldman



CLARY & SONS
Sixteenth Annual Jack Sale
at Sheridan, Missouri

Wed. March 12, 1913

25 Big High Class Jacks and Jennets 25

The jacks range in age from yearlings to four-year-olds. They are a lot of big-boned jacks with quality, black with white points, and right in every way. An extra good lot of jennets ranging in age from four to eight years old and all bred to the great jack, Ben Hur.

Will also sell a select lot of horses and mules, including extra good road and draft mares. Twenty head of choice cows, some with calves by side. Ten head extra good brood sows. Sheridan is 55 miles north of St. Joseph, on Great Western Railroad. Good train service. This will be one of our biggest and best offerings.

R. L. HARRIMAN, Auctioneer.

W. J. CODY, Fieldman.

J. E. Clary & Sons, Sheridan, Mo.

Samuel Drybread Duroc Sale
at Farm Near Elk City, Kansas

Monday, March 10, 1913

50 Head of choice individuals, consisting of Fifteen Tried Sows, every one a producer and bred for March litters; Fifteen Fall Yearling Gilts, all bred and safe for March and April litters; Fifteen Spring Gilts, all bred for spring litters; Five Spring

Boars. The sows and gilts represent the blood lines of B. & C.'s Colonel, Bell's Chief, Pilot Wonder Chief, Buddy K 4th, Red Advance, and other good breeding. The sows and a number of gilts are bred to Model Top, the Ohio, Indiana and Kentucky State Fair champion. I am selling a useful lot and I invite farmers and breeders to attend. My catalogs are ready to mail out. Please send for one and arrange to come to my sale. Yours presence will be valuable whether you buy or not. If you can not attend, send a bid to O. W. Devine representing Kansas Farmer and you will be treated fair. Please write at once for catalog to

SAMUEL DRYBREAD
Elk City, Kansas

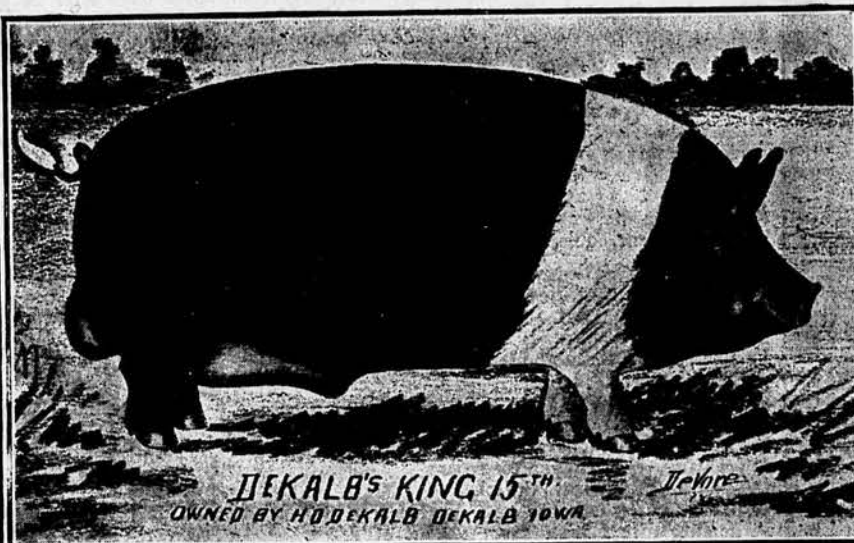
CEDARSIDE STOCK FARM, WAVERLY, IOWA

wants to sell you some nice OXFORD ewes; also, 15 rams; all from imported rams and part from imported ewes. The ewes will be bred to a 400-pound ram. Some nice HOLSTEIN bull calves, with several 30-pound records backing. Get busy and write me.
C. A. NELSON.

H. A. DeKALB'S
Hampshire Sow Sale

At Kiel's Barn, Council Bluffs, Iowa

Wednesday, March 12



SIXTY HEAD EXTRA QUALITY HAMPSHIRE SOWS
The Tops of One of the Biggest and Best Bred Hampshire Herds Now in Existence.

A number of tried sows that are among the best of the herd. Forty head of outstanding fall gilts and a few extra good spring gilts. Every one is the ideal brood sow type. They are bred to boars that are among the best of the breed in service today. They have the size, quality and breeding. Bids sent to fieldman and auctioneers in my care will receive careful attention. Be sure and mention Kansas Farmer and ask for catalog. Address

H. D. DeKalb, DeKalb, Ia.

COLS. H. S. DUNCAN and R. H. GLENN, Auctioneers.
W. J. CODY, Fieldman.

Lamer's Percherons
at Public Auction
THURSDAY MARCH 13, 1913
50 Head Stallions and Mares
C. W. LAMER & CO. SALINA, KAN.

DEIERLING & OTTO'S PRIZE WINNING JACKS

50 — Mammoth Jacks and Jennets — 50



From 2 to 5 years old, big-boned, big black kind with white points; 15 to 16 hands high. We are offering our prize winners at Missouri, Iowa and Illinois State Fairs, 1912. Every jack and jenny guaranteed just as represented.
DEIERLING & OTTO, QUEEN CITY, MO.

Write for this Book -it's Yours FREE



14
New
Styles

"Nothing
to Pay
for But
Quality"

"Nothing to
Pay for but
Quality"

Simply fill out the coupon below and mail to me—I'll send it to you by return mail with special letter, telling you all about my 1913 buying plans and money-saving prices. Remember this—over seven thousand homes sent for Thiery Pianos and Organs on thirty days, freight prepaid trial, during 1912. "Nothing to pay for but quality" when you buy one—no agents—no middlemen—no fancy profits to pay. Get a Thiery Piano in your home and you'll decide to keep it before you've had it a week. You won't even need thirty days trial, but it's yours just the same. My new Style Book shows all the new 1913 styles of Thiery Pianos—shows them in genuine mahogany, walnut and oak—prints full descriptions and testimonial letters from pleased buyers in every state in the Union.

**Just Note Below What Buyers Write Me—
then Send for My New Style Book and Offers**

Ernest Lange, Bertha, Minnesota, writes:—"I received your splendid piano, but I call it mine now. Yes, you were right in stating in your letter that I would write you within 24 hours that I had decided to keep the piano. I don't want any better piano than the one I just got from you."

Mr. Lange wrote this to me three days after he got my piano. When he ordered, I told him that he would not even need the thirty days trial. He found out in twenty-four hours that the Thiery Piano was the most value for the money he ever saw.

Mr. John Nelson, a well known farmer and land owner at Wyndmere, No. Dakota, writes:—"The instrument reached me two days ago and found just as represented. My daughter, a music teacher, declares the tone to be unusually soft and sweet. It took but a short time to learn that the Thiery Piano was just as represented and I enclose draft in full for instrument."

Mr. Nelson sent for the piano Dec. 5th. I shipped piano Dec. 7th. He received it Dec. 17th—and just think—two days after he got the piano, check in full for the instrument was on the way to me, although he had thirty days trial before he was going to send me a cent. That's the kind of proof I furnish you about the quality of my instruments.

Just jot this down—get a Thiery piano in your home and it will be the same with you. You will decide to keep the piano before you have it a week, but you have the thirty days trial just the same. Here's another—read it. Mr. A. Schulz, Cowles, Nebraska, received a Thiery Piano Dec. 27th and Dec. 30th he writes:—"Received piano Dec. 27th and am greatly pleased. I send you today \$50.00 as first payment."

Mr. Schulz sent me this money on the piano twenty-seven days before it was due—three days after he got the piano. That shows the kind of piano quality a home gets in dealing direct with me.

You may be thinking of buying from an agent or dealer. You may figure that you can do just as well from them as you can from me. If you do, just read what Alfred Davidson, Farmington, Illinois, writes:—

"Piano received. My wife says it is the finest piano she ever played. I was thinking of buying a piano here for \$500.00, but I'm glad I didn't. I saved half my money by buying from you."

You can save from \$75.00 to \$200.00 by buying a Thiery Piano direct. I don't stretch things a bit—I give you the proof right here and I will give you all kinds of it when I send you my book and special letter.

Here's more proof from Mr. F. D. McCarney, Churdan, Iowa. "We received the piano style 40, placed it in our parlor and called in one of the best judges of pianos in this part of the country for an honest opinion. After testing same for several hours, she said that the piano I had was the equal and even better than the great majority of \$500.00 pianos around here and we wish to re-affirm her statement. The piano is just as represented."

**30 Days
Free Trial** Freight Prepaid

to prove both the Quality and Saving before you decide one way or another about buying it! Then Ship Back at My Expense if You Wish.

**TWO OR THREE YEARS TIME FOR
YOU TO COMPLETE PAYMENT**

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The above is a small picture of my Art Upright Parlor Piano style 40—a magnificent instrument in genuine mahogany cabinet—ivory keys—copper overstrung strings in the bass—Empire Grand Top—a piano which I'll place aside any \$500.00 piano you can buy in your vicinity. This and all other Thiery Pianos are shown in my Style Book in full-page pictures.

Mr. McCarney saved the price of a cheap piano by buying from me. Not only did he save that amount, but he got a much better piano besides.

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It's the same story with everybody that gets a Thiery Piano, and you will have exactly the same result if you deal with me. These extracts from letters that I have just printed here are only a few from the hundreds that I have received in the past four months.

Note this—whatever piano you choose from my book, goes to you on a real free trial, all freight paid and at the end of thirty days, if you are not glad that you sent for it, don't hesitate a second to send it back at my expense. Before you pay a red cent, you prove to your own satisfaction just what you are getting for your money. That's the way to buy a piano.

Then besides—if you don't want to pay cash in thirty or sixty days, all the credit you need is yours. Two to three years time to pay me and you can make your payments annually, twice a year, quarterly, monthly and a dozen other different ways.

And another thing—every Thiery Piano is fully warranted as long as you keep it, no matter if it's ten or twenty years. Every Thiery Piano is in genuine mahogany, genuine walnut or the best quality English oak cabinet and the cabinet is doubled veneered both inside and out—all have genuine ivory keys—and cabinets in Art Finish as well as the regular piano finish without extra charge. If you want a \$2.00 bench with music compartment, you can have it instead of an adjustable stool. There is no charge for same and you get a nice scarf and music book besides.

Sign the coupon today and send it to me. The Style Book and my letter will tell you the whole story. If you are a piano buyer, it won't take you very long to make up your mind that I am the man for you to deal with. It won't take you long to see that I give you much more for your money. You will feel like sending for the piano just as soon as you get particulars of my 1913 offers. Send for the book and it will go to you by return mail.

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