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KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

Volume 49, Number 7 TOPEKA, KANSAS, FEBRUARY 18, 1911. Established 1863. $1 a year.

K. S. A. C. Library

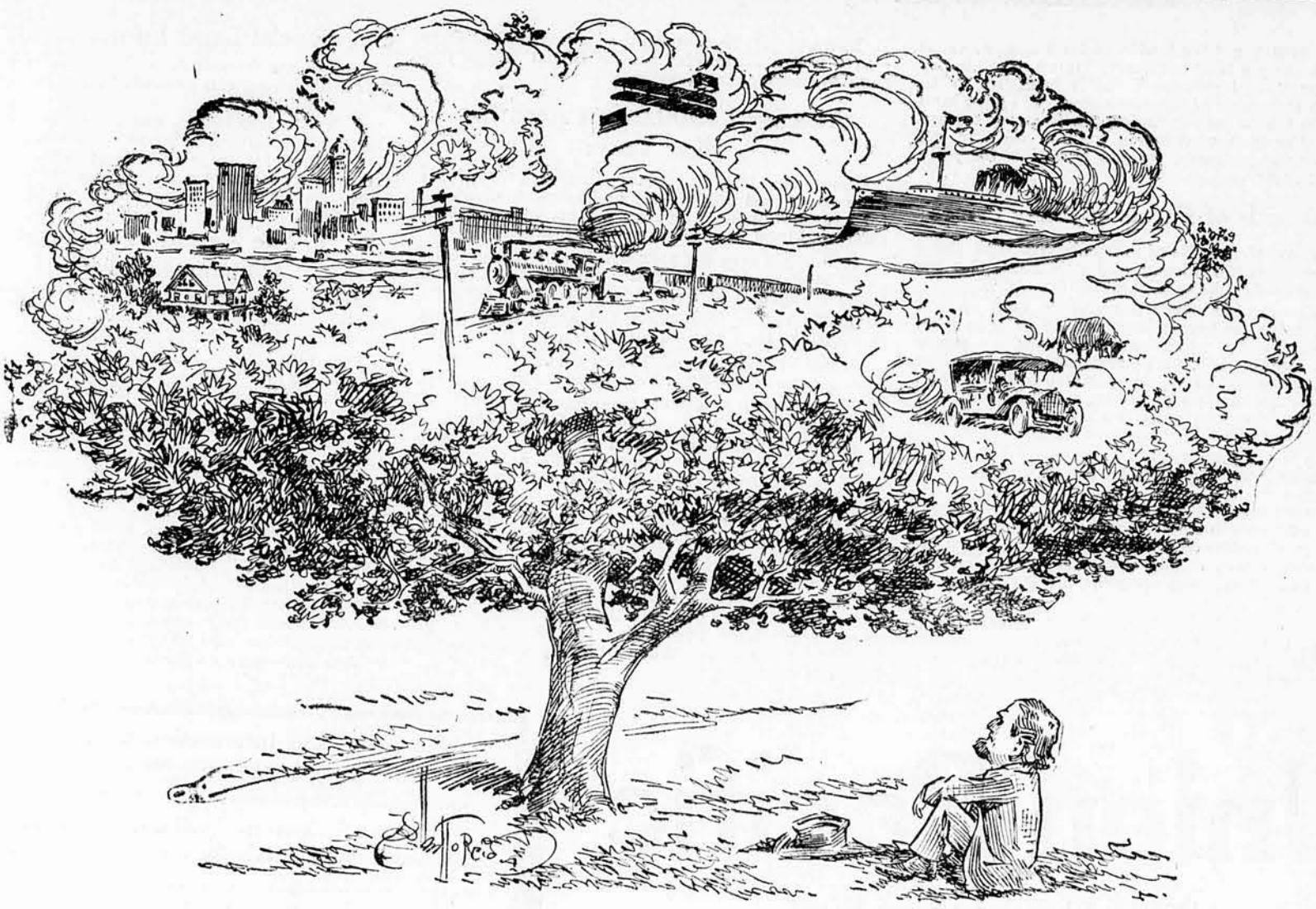
OUT of the earth we first gain subsistence for the body, then ideas for the mind and last a growth of spirit which makes us human.

The plant is the basis of all wealth, all wisdom and all present knowledge. Supplying us with food, shelter and clothing, it also feeds our flocks and herds, which bring added wealth and wisdom and knowledge.

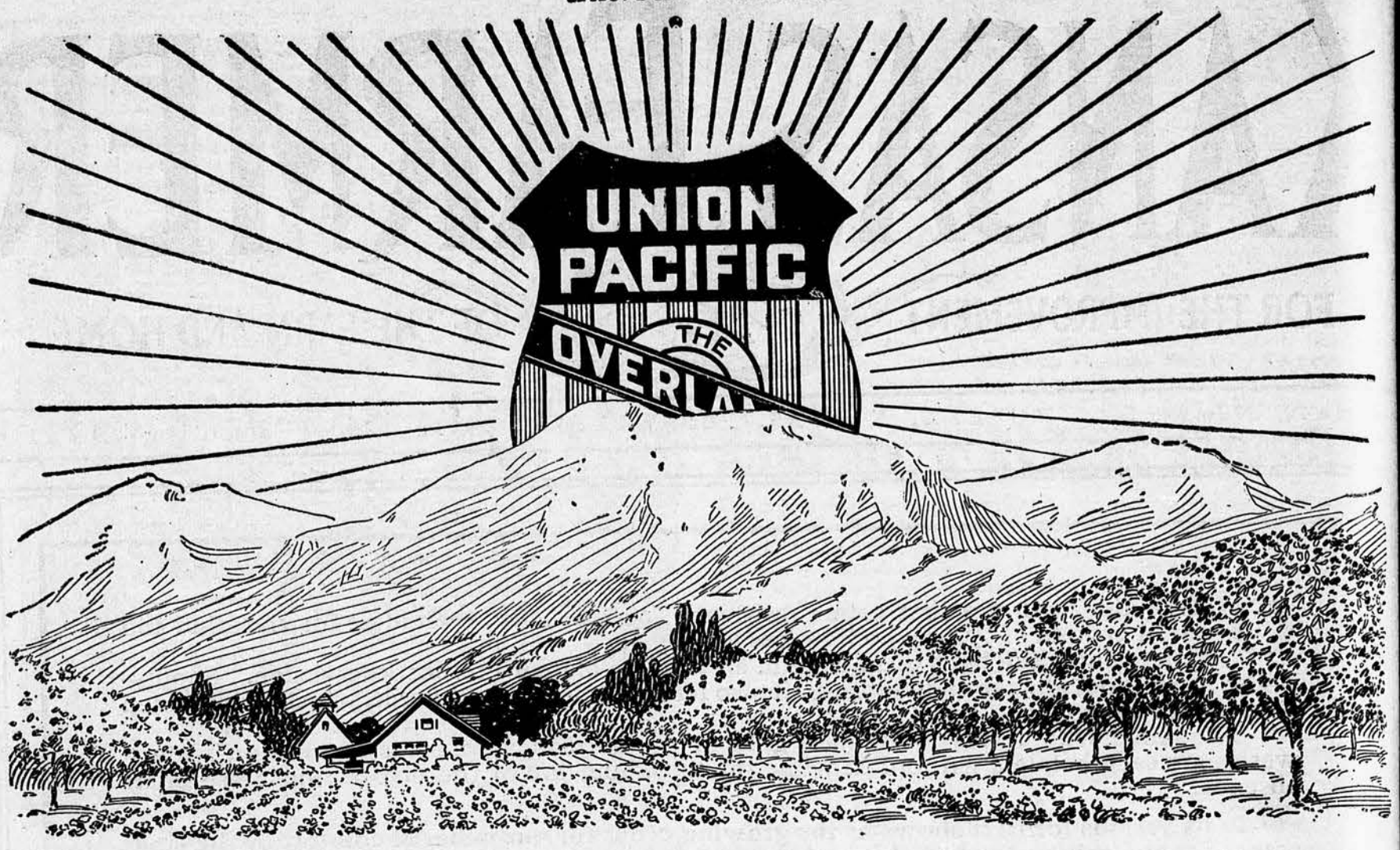
The miner who delves for hidden gold or the seaman who seeks fortune on watery wastes are each helpless without it; while the throbbing life of the city would cease in its absence.

In its various forms it shows us the growing crops for our material comfort or the landscapes for our spiritual good. It touches our lives at every point and makes humanity more human and divinity more divine, and yet it all comes from the tiny seed.

What wonder then that the wise men should observe the seed and test it and care for it? "He that observeth the wind shall not sow; and he that regardeth the clouds shall not reap." Nor shall he prosper that planteth poor seed. —*I. D. G.*



It all grew from a little seed, and we should be very careful in its selection



Land Facts

From a Disinterested Source

Actual Evidence of Marvelous Profits from Fruit Raised in the Healthful West by "City Farmers" with Little Experience

This is not a "land ad" as land ads go. It is not written by a land company. It is not a "literary gem" or "word picture." It is intended to be merely a statement of figures and facts about land along the Union Pacific Railroad with a view toward helping the man who *wants* a small farm to *get* what he wants, *where* he wants it *and at the price he wants to pay.*

Thousands of Farms at Many Prices

There are thousands of miles of farm land along the Union Pacific Railroad and *rich* land, else the road never would have been built through it.

This land raises every conceivable kind of fruit and vegetable, and there are years of records from each section by which honest, reliable, yearly average profits may be determined. Your every preference in regard to the produce to be raised, the climate, the type of country and the class of people, and the density of the population, can be suited somewhere along our line.

Our Interest in Your Success

We want you to settle *somewhere* along our line—that is our sole interest in asking you to write us stating your desires in regard to owning a farm.

We will, after learning what you want, give you a wealth of information upon the subject or subjects you mention.

Our revenue depends upon *your success* upon that land in the form of *shipments to market*—not on regular *monthly payments of money.* Thus we are entirely unprejudiced.

You will get, in this manner, unvarnished facts—the "rough diamonds" of truth from which you can draw correct conclusions.

Averaged $900.00 an Acre for Nine Years

Read the following *facts*—instances of profits from 5, 10 and 20-year-old orchards—then ask us for information about prices on uncultivated and cultivated land in adjoining neighborhoods.

$600.00 per acre per year *net* for the past 9 years from 20-year-old pear trees realized by Captain Gordon Voorhies of Portland, Ore.

$1615.40 *clear*, from 3 acres of apple trees taken in by H. B. Herr of Freewater, Ore.

$2,500.00 from vegetables and garden truck on a 15-acre farm owned by J. E. Roberts of Ashland, Ore.

$600.00 worth of carrots from one acre of bottom land near Eugene, Ore., owned by S. E. McBee.

$1,330.28 from four acres of cherry trees—$855.45 from one-half acre of tomatoes—$333.34 net from 1¼ acres of green peas—all on the farm of J. C. Hosteller of Dallas, Ore.

The returns for four years from a three-acre orchard belonging to James Lacey of Hood River were as follows:--1906, $1,764.20; 1907, $3,801.36; 1908, $2,493.41; 1909, $2,367.71.

These are all Oregon yields, but other states do as well and we will give you the facts on any other state in the West you wish. Yields as high as $1,244.68 per acre are taken from 7½ acres of pear trees in Oregon.

Our Special Land Information Bureau

There are thousands of instances which prove that a fine living can be made by any man who can buy a small tract.

Men can live better, cheaper and happier than thousands are living today in the cities.

Our land information bureau is for the help of the man who wants a change but who wants "to know" what the change might bring before he makes it.

The Actual Produce at Chicago Land Show

Apples, vegetables, etc., grown along our line, will be exhibited at the Chicago Land Show from November 19th to December 4th, inclusive.

The information our Special Bureau can give you will be an excellent thing to possess before you visit the land show. It will form a sort of working basis to use in getting further information from representatives who will talk to you at the show.

Mark the Coupon and Mail It Today

Let us send you this information at once. Mark the coupon below to designate what state and what products interest you most, what price per acre you can pay and how many acres you might buy, and we will endeavor to lay before you a comprehensive lot of data with *all* the information clearly stated.

Remember that our interest in your reply is disinterested with the exception that we wish to gain you as a settler—and an eventual shipper.

Act now—send us the coupon.

Union Pacific

Standard Road of the West
Electric Block Signals

Reliable Land Information Coupon

Homeseekers' Information Bureau, 698 Bee Bldg., Omaha, Neb.

Please send me full information as indicated below.

What will a.....tract of land in the state of.....

cost me approximately, my idea being to raise.....

.....

.....

Give me all the figures and facts, along similar lines, in your possession, presuming that I know nothing about farming.

Name.....

Address.....

(665)

KANSAS FARMER EDITORIAL

With which is combined FARMER'S ADVOCATE, established 1877.
Published weekly at 625 Jackson St., Topeka, Kan., by the KANSAS FARMER COMPANY.
ALBERT T. REID, President. J. R. MULVANE, Treasurer. S. H. PITCHER, Secretary.
Edited by T. A. BORMAN and I. D. GRAHAM.
CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Manager.
NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.
Entered at the Topeka, Kansas, postoffice as second class matter.

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

ADVERTISING RATES—25 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Forms close Monday noon.

PUBLISHERS' GUARANTEE TO SUBSCRIBERS—KANSAS FARMER aims to publish advertisements of reliable persons and firms only, and we will make good to any paid-up subscriber any loss he may suffer through fraudulent dealing on the part of any of our advertisers, provided complaint is made to us within thirty days after the transaction, and it is shown that the subscriber, in writing to the advertiser, plainly stated: "I read your advertisement in KANSAS FARMER." We do not, however, undertake to settle, or be responsible for the debts of bankrupts, or for petty and trifling disputes between a subscriber and an advertiser, although we extend our good offices to that end.

PICTURES—Good photographs, drawings and plans are especially solicited. Senders' names should always be written on the back of each picture. KANSAS FARMER can not be held responsible for any picture submitted, except under special written agreement.

CONTRIBUTIONS—KANSAS FARMER is always glad to have correspondence on all farm, live stock or household subjects. Your name should be signed to all communications and they should always be addressed to

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

A CORN BREEDING PLOT.

There is considerable agitation in the minds of farmers as to the value of corn that was preserved for seed last fall. Corn in Kansas was very spotted last season, and the question of good seed corn this spring is a serious one.

Heretofore, the common practice has been to select suitable ears for seed corn from the field, and if the ears proved to be choice and proper care was given them, a fair degree of success in the subsequent crop has resulted. The large seed houses raise their crops especially for seed purposes, and this suggests that the average farmer might adopt their methods to some extent for his own advantage. For instance, one acre might be planted from carefully selected seed, in carefully prepared and manured ground, and given little more than the ordinary attention and cultivation, with the result that this acre could be depended on to furnish seed for the ensuing year. It would of course be better to have this seed acre located on the southwest corner of the corn field, because of the prevailing winds which carry the fertilizing pollen, or else to have it more or less isolated from other corn fields, so that there would be no danger of cross fertilizing with other varieties or with inferior kinds. By selecting the best ears one could find and of the type that will yield the best in an average season and will mature fairly early and all at once, the foundation could be laid for a good seed acre. Then, after the warm weather has come or the frost is entirely out of the seed corn, these selected ears should be tested for vitality by taking out about ten grains from different parts of each ear for the seed tester. The planting and cultivation should be good but no better than that required for a good crop in any field. Of course, rich land is better and the acre plat may be well manured in preparation for its work. The important consideration, however, will be the selection of the seed from this plat in the fall. The ears chosen should be picked as soon as they are thoroughly ripe, then carefully dried and housed where they will be free from extremes of temperature. In this way it would only require a few generations to establish a high quality of field corn that is thoroughly acclimated and adapted to the soil of the locality where it grows.

This plot need not be considered a breeding plot although the operations of seed breeding may be conducted at the same time if desirable. A little experiment station of this kind in one corner of the corn field will prove of considerable interest and much value to the farmer who maintains it, while the trouble and expense incurred will not be noticeable.

KANSAS ALFALFA WANTED.

A great many inquiries are being received as to where Kansas alfalfa can be bought in large quantities. Many of these inquiries come from outside the state and all indicate a strong demand for this crop as well as a lack of knowledge as to where it may be had in suitable quantities.

The Kansas farmer who has alfalfa to sell can find a ready market at good prices by announcing this fact in the advertising columns of this paper. Enterprise of this kind makes quick returns by bringing a large number of competitive buyers to the seller.

The time is right at hand when consideration must be given to tree planting. Are there any dead or worthless trees in the orchard which need replacing? Are there any other varieties of fruits which you would like to raise on the place Are there any windbreaks needed or ornamental shade trees Would not the place look better and be worth more for a few shrubs and vines and roses planted here and there? Experience gained in the past, information secured from successful neighbors, accurate knowledge from the experiment stations and the farmers' institutes will all help to determine as to a choice of varieties, how to prepare the ground, how to plant and how to cultivate them. Then a study of the nursery and seed catalogs will show where to get them and when. Hours devoted to such study at this season are not only pleasant but profitable.

TEST YOUR SEED.

The experiences of the past should be our guide in the future. Experience teaches that it is never profitable to plant inferior seed and the experience of last year showed that corn testing as high as 90 per cent in the winter germinated only 35 to 50 per cent when tested in the spring. This was because the first test was made while the corn was yet full of moisture and before it had been damaged by hard freezing and thawing. The later testing showed the real condition of the seed and was the real test of the seed value.

The use of the seed tester will make money for any farmer but his tests should be made just before the planting season unless the seed can be stored where it is absolutely free from danger by freezing and thawing. Corn that has been put in the tester while still frozen may germinate and grow well while the same corn put in the tester after the arrival of warm weather would prove to be dead or very weak. For this reason corn or other seed should be placed in a warm room for several days before testing and this testing should be done after the seed is thawed and dried. If it then germinates from 85 to 90 per cent it is good seed. Because of the peculiarities of the last growing season which served to stunt the corn for a time and then, with the later rains, give it a renewed growth late in the season, it is perhaps best to look with suspicion upon all untested seed. Better be safe than sorry.

THE ALFALFA LEAF WEEVIL.

The alfalfa leaf weevil has become such a threat that Arizona is asking for government aid in suppressing it. In that territory there is now grown about 120,000 acres of alfalfa and the local authorities are without laws or means for combating this pest. It is urged by the Department of Agriculture that, owing to the rapid spread of this insect, there is great danger of its covering the whole of the alfalfa growing region of the country and for this reason any protective measures which may be taken in Arizona will be protective of the entire country.

Ostrich farms are now in operation in England, France, Belgium, South Africa and the United States, but the largest of these, with the single exception of South Africa, is in Arizona where there are 7,000 birds in thriving and profitable condition.

OUT OF WORK.

Of one thing the land owning farmer is always sure. He is never out of work and his pay is proportioned to the brains and skill he puts into his business. It is different with the city man. Whether he be the owner of a business or the hired man working for another there always comes times when business is dull or he is out of a job. If he is the owner of a business his success depends upon others as well as himself. If the season is bad and the crops poor his business suffers because the farmer is not only the best buyer himself, but upon his success depends the success of all others. If the city man is not a business owner and is on the pay roll of some one who is, he also suffers with any depression of business. The business owner cannot very well protect himself against dull seasons and hard times, but the laborer has a remedy in his own hands. If there is a slump in the labor market in town he can go to the farm where laborers are so badly needed.

Just now it is announced that there are 300 laboring men, heads of families for the most part, who are out of employment in the capital city and for whom the officials are trying to make such provision as will help them through the winter. If farm conditions are understood and if the farmers' statements are to be taken at value, this condition is wholly unnecessary. These men could all find employment at remunerative wages and under much more wholesome conditions on the farms of the state.

Farmers are clamoring for more help and are willing to pay for it.

There would seem to be no reason why any able bodied man should be dependent upon the charity of his fellows for any great length of time when there is a labor market clamoring for his services on the farm.

The physical and moral conditions surrounding farm life are much more wholesome, both for the laborer and his growing family than they are in the city and the pay is equally good. True, the farm laborer does not receive so much cash for his services as does the city laborer, but his expenses are reduced to the minimum and his savings at the end of the year will be greater, his health better and his job more secure.

Work the manure spreader, the fanning mill and the seed tester to full capacity.

> You don't know how pleased I was to receive another copy of the old reliable KANSAS FARMER a few days ago. It seemed like old times to again peruse its pages after my short lapse caused by moving to another state. It is 39 years this coming summer since I wrote my first communiction to it. I certainly appreciate getting it again.—J. B. Dobbs, Amherst, South Dakota.

THE NEEDS OF K. S. A. C.

The State Agricultural College has made a wonderful development in the last decade, and now stands at the head of its class in the United States if not in the world. Its growth is not measured in mere numbers so much as in the value of the work it has done, yet the numbers constitute a most important factor to be reckoned with. It is stated that in one department there are now some 200 students who are there on expense to secure the special training that is offered them, and yet who can not receive this training because there is no room on the grounds where their classes can meet. These young men have every right to expect that the instruction which they seek at that institution will be afforded them, and yet, as the attendance is so large that they can not be accommodated with suitable classrooms for such instruction, they are forced to either assemble out of doors, or fail of getting what they want and need.

The board of regents of this institution is asking for an appropriation for buildings and current expenses which looks large when stated in figures, but which is really small when the needs of the institution, the duties it owes to the state, and the benefits to be derived from it are considered. Among the most serious needs of this institution aside from the item of current expense, are the buildings that are asked for by the college authorities. These include an agricultural hall and a barn for the animal husbandry department. The present agricultural hall was erected at a time when the total enrollment of students was between 400 and 500 while the present enrollment is approximately 2,500 The agronomy and animal husbandry departments have entirely outgrown the present structure, and must have more room and better equipment or fail of their best work. The building that is in contemplation provides for the accommodation of animal husbandry, soils, crops and a live stock judging pavilion. The present building which is occupied by these departments would be readily available and is sorely needed by other departments which are too crowded for effective work.

The barn in which the live stock is now housed was built in the 70's and was then thought to be a remarkable structure. With the growth of the institution, however, it has long since ceased to be large enough for its purpose, and has been supplemented by sheds and leantos in various parts of the grounds. These temporary structures are wholly unsatisfactory, and should be supplanted at once by a permanent structure of such size and with such equipment as would enable this department to continue the magnificent work it has been doing lately. With a personal knowledge that is perhaps more intimate of the minute details of the Agricultural College and its history than that now possessed by any other living man perhaps, the writer feels that the budget offered by the board of regents for the consideration of the Legislature is conservative in every item. The expenditure of money on the state educational institutions of Kansas has always been a bone of contention, but we believe that every farmer will agree that every cent that has ever been expended by the state for the maintenance and equipment of the Agricultural College has proved a profitable investment which has been returned to the pockets of the tax payers many fold. This institution is now in its best working order, and the equipment and maintenance fund which is asked for is to be thought of only from the investment point of view.

Just what the Agricultural College is worth to Kansas and to the world can never be stated in dollars and cents. Enough facts are available, however, to show that if the utilitarian side of the question is the only one considered more money has been made and saved by the farmers of Kansas because of its existence and good work than could have been possible without it, while its real value in training the future citizens of the state must be reckoned as absolutely free to them.

The Yield of Corn Should Be Increased

The First Start Towards Securing a Good Crop Lies in The Selection of Good Seed

By E. G. SHAFER, K. S. A. C.

Figures for the 1910 crop of Kansas show that the total yield of corn was 152,810,884 bushels, and that the average yield was less than 20 bushels per acre. This is not a minimum yield for Kansas yet much larger ones have been recorded. Differences in yield are due either to environmental conditions or to the quality of seed used for planting, or a combination of both. The corn grower can increase his yield of corn to the extent that he can control and improve these factors.

Breeding corn or improving the variety of seed will be accomplished largely to the extent that the proper qualities are considered for a basis of selection. Many definite factors relating to breeding are known, but there is a great deal of speculation as to proper methods of procedure for the best results. The size and shape of ear, the shape and indentation of kernel have been specified to form standards for certain varieties; these to be used as a model in the selection of seed. Some investigators tell us that looks are deceiving and that frequently it is not the best looking ear that gives the largest yield per acre. So the corn grower is not sure what kind of an ear of corn is the most desirable for seed, or even that there is any particular type or shape of ear that is better than others.

The influences determining the shape and character of the ear come largely from the mother plant. If the appearance and quality of any particular ear are due to favorable environmental conditions and not because of the kind of seed the good qualities are less likely to be transmitted. There may be many sire parents for one ear and their worth is unknown and indefinite. When the kernels of any single ear are planted there will be variation of the product, and the mother ear, even though it was looking good, may produce an offspring inferior to itself. For these reasons ears of similar appearance are different in worth, and ears differing in character may produce similar results. On the average, however, good ears tend to produce good ears and large yields, and are desirable for seed.

The ear-row test has been valuable in making desirable selections. Individual ears are planted each in a single row where environmental and cultural conditions are kept uniform. Differences in yield may then be attributed to heredity or value of seed, and the selection of seed is not based upon looks, but upon productive capacity, which is a utility quality and of practical importance. The ear-row test has been effective in increasing strains.

A KANSAS CORNUCOPIA, CORN RAISED BY F. A. SCHRADER, LEBANON, KAS.

Though ear-row test selection is much better than ear selection, its weakness has already been suggested. Choice ears are tried out on a basis of yield per acre, but since the individual kernels of an ear have different sire parents, an unknown quality is being introduced, which may largely cause a decreased yield. This unknown quality of the untried sire parent will continue to produce an undesirable effect.

The next step in controlling breeding operations would be to introduce pure line breeding. Recent experiments indicate that such methods may be valuable in corn improvement. In pure line methods where the plants are self fertilized, there should be an increased uniformity of the product because of self fertilization. When these ears are planted in the ear-row test, differences in yield can be traced to the individual parent ear. Those possible from the stalks in the field, which produce the best yields are superior because of their hereditary worth. Self fertilization is known to decrease vigor and yield if pure line methods of breeding prove valuable the supposition is that the original vigor must be restored by crossing, after proper selection and separation of strains has been made.

The breeding methods that are worth while to the corn grower are those that will pay from a money standpoint and if there are factors or qualities in ears of corn that show their productive capacity they should be known. Experience and experimental data lend valuable suggestions in the selection of seed corn. The results of both indicate that good ears of corn should be chosen for seed—not the extreme large ones, but those of medium size. It is desirable to make selection of seed ears early, and if however, the ears should be well matured before harvesting. If they are selected in this manner plant factors may be considered, and the seed may be brought into the seed house and properly cared for.

Seed of poor vitality will not give a perfect stand and a maximum yield can only be secured from a perfect stand. If the stand is imperfect, there will not only be a loss of space devoted to corn, or decrease in total acreage, but valuable time will be spent in the cultivation of vacant spaces where there is no crop growing. Seed which will germinate but which is of low vitality is worse than useless, since plants from such kernels will take moisture and plant food from the soil, and are frequently barren. It is essential that every ear of corn used for seed be of strong vitality, and vitality in seed is largely controlled by maturity and care. Twelve to fifteen ears are sufficient to plant an acre. If one ear out of every ten is poor, a big sacrifice is made in stand and yield per acre. If there is any doubt as to the vitality of seed a germination test is essential. Six kernels taken from different parts of each ear will be representative of the ear and may be tested for germination.

In planning breeding work the best appearing ears may be selected according to common standards and planted in a certain part of the field. It is preferable to have each one growing in a row by itself where their productive capacity may be determined and this part of the field used as a breeding plot. This will require a little work and time but the low yield per acre of Kansas plainly shows that a little more time and energy could profitably be given to the Kansas corn crop. It is impracticable for every farmer to become an extensive corn breeder, but it is so necessary that seed corn be bred and produced in the locality in which it is to be grown that farmers should produce their own seed and it can be accomplished with a little extra care and attention.

An important factor in corn breeding is the adaptation of varieties to their local conditions. Adaptation has been gained by natural and artificial selection and there is less chance of failure with corn that has been developed in its own climate.

Perhaps the greatest improvement in corn in the future will be brought about by individual farmers selecting their seed according to the best known standards, not by looks of ears alone but by their productive capacity, and grown on a breeding plot with the view of producing varieties better adapted to environmental conditions.

SHAWNEE ALFALFA CLUB

The January meeting of the Shawnee Alfalfa Club was unusual in that the speakers were all members of the Legislature. Two of these Legislators live in counties bordering on the Colorado line, one on the Nebraska line and the other one in Southeastern Kansas. The relation of their experiences in alfalfa culture was given an added interest by reason of this fact, as it brought out the different conditions under which farmers of the state have to labor in producing the second most important crop and also showed the successes attained.

Senator Anson Cook, of Mitchell county, has had large experience in growing this important plant, and in the many years of his farm experience in northern Kansas he has learned that any land well seeded to alfalfa is worth at least double what it would be without it. In his locality he finds that the chief difficulty is in getting a stand, and for this reason he devotes special attention to the preparation of the seed bed. Where the ground is free from crab grass and otherwise clean, his practice is to seed to alfalfa in the spring. In preparation for this he plows in the fall, according to the depth of the soil, and then fines it down as he would an onion bed. It is impossible to do too much work in the way of preparation. Experience has taught him that it is possible to be in too big a hurry to sow the seed. His policy now is to wait until conditions are exactly right, and then allow nothing to interfere with getting the alfalfa seed into the ground. He always sows with a drill. In his section of the state crab grass is rather a new pest, and has proved to be the worst enemy. Foxtail, which bothers so greatly in eastern Kansas, is not yet a serious problem in Mitchell county.

Early cut alfalfa is especially good for calves and hogs, and the Senator stated that he had wintered calves on such hay alone and very successfully. Medium cuttings, or when the crop is from one-fourth to full bloom, is ideal for fattening cattle; while if the hay is intended for horses, it should be allowed to thoroughly ripen. The Senator stated that he had fed horses on no other hay than alfalfa, and they had done well, but this was well ripened before cutting.

The most profitable place to put manure is on the alfalfa field. Always use a manure spreader, as without it good results cannot be had. The day when we dump manure in the creek or move the stable to get rid of it, is past. Most farmers in Mitchell county use manure spreaders and very many of them have alfalfa renovators or spike tooth disks. "We find that the reports of your club meetings as published in the Kansas Farmer, are very valuable to us and I have long desired to have the opportunity of meeting with this club."

Our climate is a little dryer than yours and we find that we can not use a renovator with profit when the weather is very dry. We also find that stacking alfalfa in the open or in open sided sheds will cause a loss of about 20 per cent., as the hay will absorb moisture from the air. Stock will continue to eat it, although it is in poor condition, but the buyers will not take it. The farmers of Mitchell county do not consider that it pays to build alfalfa barns, but do find it profitable to build sheds right in the field, so that the hay can be easily handled, the shed filled quickly and the cattle fed right on the land. They cut the alfalfa and then shock it for one day before placing it in the shed or hay mow. In this way they get more weight and better feeding qualities in the hay. It serves to preserve the leaves, which are the most valuable part of the plant. Where the land is suitable there ought to be at least sixty acres out of every quarter section in Kansas put into alfalfa.

Representative J. T. Lacy, of Wallace county, said in part: "Our best crop is made on new ground. We break the sod in the spring, then run over it with a straight disk so as to pack it, and sow the seed. We do not sow in the fall as our conditions are different from what they are here. If we have no sod land available we practice the summer fallowing with good results. We find that good seed is most important. We use 15 pounds and when we make our first cutting we set the sickle bar rather high, this gives a quicker start for the new crop. We aim to cut when the crop is about one-tenth in bloom. Sometimes we use the first crop for seed though most generally the second. We can do this in our country because we have no great trouble from wet weather such as interferes with eastern farmers in their preservation of the first crop. Seed is a great crop with us, and we have the records in my county of a production of 12 bushels to the acre. Last year I raised 46 1-4 bushels on less than four acres. The alfalfa renovator and the manure spreader are most valuable tools, and no farmer to succeed should undertake to do without them. Most of our alfalfa land is on the bottom or second bottom land, and no great progress has yet been made in producing good yields on the uplands.

"I use a Jayhawk stacker. Hogs, sheep and jack rabbits will kill alfalfa if they are allowed to overpasture it. We have no trouble in pasturing cattle on alfalfa, provided they can get plenty of dry feed and good drinking water. I have read about the Shawnee alfalfa Club in Kansas Farmer so often that I am very glad to have an opportunity to be present today."

Representative W. J. Burtis, of Wilson county, is a close student of farm conditions, and his statement that next to corn alfalfa has been the greatest boon to the Kansas farmer will be generally accepted. He to-

(Continued on Page 9.)

PROFITS BEGIN WITH THE SEED

The American Farmer is Fully Educated To The Advantages of Thorough Reaping

This is natural for when the farmer sees the full crop standing in the field it is easy to realize that whatever is spoiled or wasted represents profits he worked for, but did not get—money lost right out of his pocket. The farm papers and the advertising of the large harvester manufacturers have also so emphasized this that no farmer can help seeing it.

Again the value of thorough soil and crop cultivation, though less evident is still familiar to the average farmer for here again both the farm paper and cultivator manufacturer have each emphasized it till most every farmer has tried it and learned from experience.

But till comparatively recently the American farmer has paid but little attention to a source of crop loss which even now reaches into many millions of dollars a year. We refer to the careless selection of seed sown.

Without good, clean seed the fundamental element of a good crop is lacking. There is no question but that small, inferior kernels produce weak, spindling stalks while large, full seed invariably grows into big, full crops. This has been as conclusively proven in regard to seed as in animal breeding, and no well informed farmer can doubt it.

There is no question but that the average farmer could easily add a large amount to his profits each year by paying as careful attention to his seed selection as he does to his harvesting or cultivating or animal breeding.

And there is now no reason why the farmer should not do this because not only are the facts well known but the inventor and manufacturer has again come to his aid and he can buy at insignificant cost a machine that will do the work for him.

The modern seed grader and fanning mill is an all-important machine on the farm and is without doubt one of the best investments any farmer can make. It will add from 15 to 50 per cent to the value of every crop he plants.

This added value of the crop is of special importance just now when the present high price of both land and the grain itself is taken into consideration.

Ordinary grain not only contains much foreign matter—dirt, chaff, weed seed, etc.—but even the grain itself varies greatly in size and quality.

The modern seed grader and fanning mill in the first place removes all the impurities and foreign matter from the grain and in the second place separates the different grades of the grain itself, eliminating the small, weazened kernels that would produce only stunted stalks and carefully selecting the large, even, fully developed kernels that mean big yields of fine quality.

Planting only such seed not only assures a big yield of large, full eared grain next year, but it means with proper selection a constant grading up of each crop—a still bigger, better yield each year of heavier, choicer grain.

On the other hand each small, undeveloped kernel planted not only means a poorer crop of poorer grain next year, but a constant grading down of your whole crop year after year.

And still worse is the effect of weed-seed that is contained in ungraded grain. There is no question about the evil effect on the tenacity of weeds. Unless carefully guarded against they will overrun any place. Large quantities of them are planted with all ungraded grain. Other large quantities are in the grain fed to animals and are spread over the fields in the manure. Unless the grain for both sowing and feeding is cleaned of such seed each succeeding year will show more and more weeds. Many an entire farm has become almost depleted from this cause alone.

But grading seed for planting is not the only use of the fanning mill and seed grader.

All grain as it comes from the shelling or thrashing contains much dust, dirt and other foreign substances. Of course commission men and grain buyers will not pay full prices for such grain. They "dock" the farmer to allow for this. Then after cleaning it they sell his own screenings right back to the farmer at a good price. The buyer thus makes a double profit on his part of the transaction and the farmer loses both ways.

But the farmer who cleans his grain in his own fanning mill always gets top price for his grain and has his screenings for feeding purposes.

With a high grade fanning mill and seed grader any grain or grass seed, wheat, corn, oats, clover, alfalfa, etc. —may be cleaned and graded quickly and easily. From a large hopper the seed or grain keeps running in a continual stream down over a series of screens, over each of which a blast of air is constantly passing and each of which in turn eliminates all dirt and undesirable seed till finally only the choicest kernels are left. A good grader will easily clean and grade 60 bushels of grain per hour and 40 bushels of clover, alfalfa and such seed.

If, however, the cleaning is simply for the market—that is only the dirt and screenings are removed—the work may be done much faster.

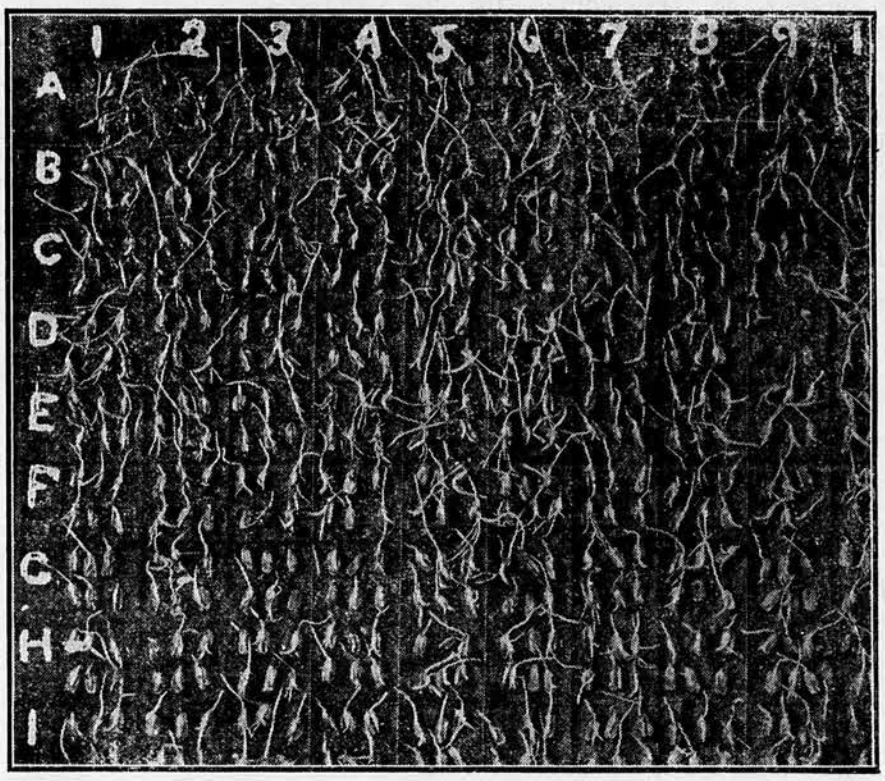
From every point of view a good seed grader is a necessity. Its cost is small—it will last a lifetime and it will pay for itself many times over. Certainly no really up to date farmer can afford to be without one of these machines.

GERMINATION OF SEED CORN

When making a germination test of seed corn, average samples and uniform conditions must be secured. The corn should be tested before shelling. If one ear has poor vitality, a half dozen kernels will show it; two kernels from the butt, two from the tip, and two from the middle of the ear. When picking the butt and tip kerenls, do not take from too near the ends. The best method is to butt and tip the ears before making the test.

When removing the kernels, notice the condition of the germs. If they are discolored, or the skin is shriveled, time is saved if such ears are cast aside. Many times the general appearance and weight of the ear will show whether it has a good cob and good kernels. Study your ears when working with them. Just because they will grow is no reason that every one should be used for seed.

The best media in which to test the vitality of corn is fine sand. A layer two inches deep, watered every other day, will give uniform conditions. This sand can be placed in a tray for convenience. One inch cypress is very good material. This will not warp or crack. A tray 20 inches by 32 inches, inside measurement, is large enough to test two bushels of corn. After filling the tray with clean sand, and wetting it thoroughly with warm water, a string can be stretched across the surface both ways, every two inches. This will divide the tray into squares. To secure the string at the edges, shingle nails may be driven part way into the sides of the tray. String is preferable to wire. The wires rust, and will break when the wooden tray swells from the moisture. To keep a record of all ears, one side of the tray can be numreded from 1 to 16, and one end lettered from A to J.



The tray is now ready for the corn. When placing the kernels, a system can be determined, by means of which the butt, middle, and tip kernels will be separate in each square. This will give valuable information, and quires no extra labor. The kernels should be pressed tip first into the sand, until the tops are level with the surface. After filling the tray, an old gunnysack split and spread over it, will keep a uniform temperature and conserve the moisture. With a proper amount of moisture, and a temperature of 75 degrees Fahrenheit, the percentage of germination can be ascertained the fifth day.—Bruce S. Wilson, Farm Foreman Agronomy Farm, Kansas State Agricultural College.

SMUT IN SEEDS

In addition to the selection of good seeds, it is necessary to test them for vitality, if best results should be attained. In addition to these precautions it has been found wise in many cases to use some preventive measures for protection against smuts and other grain diseases, by the treating of seeds before they are planted. The smuts, rots and scabs of various farm crops are of the same general character and may be overcome by the same treatment. There has never been found anything which will insure freedom from disease germs in the seed to such an extent as will a treatment with formaldehyde. The smut of oats, wilt of flax, anthracnose, rotte of lettuce, smudge of onions, rot of cucumbers and scab of potatoes may all be prevented by treatment of the seed with formaldehyde before planting. The usual solution for such purposes is composed of one pint of 40 per cent formaldehyde to a barrel of forty-five gallons of water. The seed grain is placed in a gunny sack and immersed in this barrel of solution, where it should remain long enough to become thoroughly wet and in no case less than ten minutes. The grain may then be spread out and dried so it will work through the drill. The grain might be piled on a clean floor or on a large canvass and thoroughly sprinkled with the solution, and then shoveled over until it is all wet with nearly as good results. For potato scab or blackleg, the solution may be a little stronger, say about one pint of formaldehyde to 30 gallons of water.

It is a fact that the formaldehyde treatment for the prevention of smut has always shown an increase of crop, even though the grain so treated was known to be free from smut. The reason for this condition has not been understood until just lately. It has been discovered only recently that wheat crops particularly are quite commonly attacked by three or four types of minute fungi, not hitherto recognized as parasites. Experiment, however, has shown that these parasites not only attack the wheat heads and grain, but gain access to the interior structure of the grain and bring about blighting and shriveling. It has also been found that they live over in the soil from one season to another.

Formaldehyde is the most satisfactory of all known disinfectants because it is at once a germicide, a fungicide and a deodorizer, while, used in the proportions recommended, it is not poisonous to human beings or to live stock. It may be used as a disinfectant about the household in the renovation of bedding, clothing and rooms after contagious diseases and without damage to the carpets or furniture coverings. It will not injure silk, linen, cotton or woolen goods, household utensils or farm implements, and is a splendid agent for the cleansing of kitchen sinks, refrigerators, outhouses, etc. Under a new process of manufacture, it becomes so cheap that it ought to be kept in every household. It has a wonderful faculty for uniting with the products of decay, fermentation and decomposition, and forming compounds which are both odorless and sterile. It is a true deodorizer and does not mask one odor by substituting another.

Winter Sun Scald.

Fruit trees in Kansas suffer a good deal from sun scald in the winter season. This is due to variations in temperature and the injury usually appears upon the south or southwest side of the tree. It is rather difficult to determine it until spring when the outside bark turns to a brownish black and this discoloration sometimes reaches to the heart wood. To protect trees from winter sun scald the California whitewash is recommended by Professor Herrick of the Colorado Agricultural College. It is composed of the following ingredients: Quicklime 30 pounds, tallow 4 pounds, salt 5 pounds and water to make. Have the tallow melted and the salt dissolved before placing the quicklime in. This makes a tenacious whitewash which is not easily rubbed or washed off. This wash is useful for many other purposes as well.

THE FARM

How to Improve the Oats Crop.

In the first place, the ground should be properly prepared before the seed is sown. The subsurface ought to be moderately compact, but the surface should be mellow and finely pulverized. If the ground is plowed in the spring a subsurface packer should be used, after which the surface should be thoroughly harrowed, so as to put it in fine tilth. If the crop is to be grown on corn ground or stubble, without plowing, the ground should be disked and cross-disked, and then well harrowed, before the seed is sown.

In selecting seed, extreme stooling varieties should be avoided. The shoots are not so vigorous nor so prolific as the main stems. A variety producing large stalks and seed panicles is to be preferred. Well bred oats are as much more prolific as well bred corn. The advantage in large, non-stooling varieties lies in the fact that more seed may be sown, and that, consequently, more large stalks with larger seed panicles may be grown.

The tendency in this country is to sow too little seed. In England, where improved, and comparatively non-stooling varieties are generally used, as much as six or seven bushels an acre is often sown, with good results.

As the purpose is to grow oats, and not smut, it seems to follow that smut should not be planted. This can be avoided by treating the seed oats with a solution of formaldehyde. To every three and one-half gallons of water add one ounce of forty per cent formaldehyde. The seed should be immersed in this solution for about an hour, when the solution can be drawn off and used again. Or the seed oats may be sprinkled with this solution until they are thoroughly saturated, and then shoveled over a few times, after which they may be spread out to dry.

It is a waste of time, land and money to grow a poor crop of anything when by intelligent effort a much better crop can be produced.

Raising Deer on the Farm.

I noticed in your paper of recent issue an article on deer farming. I have been interested in this subject and am contemplating going into the business of raising the common Virginia deer on a tract of timber land now unused. I find, however, that there is a law on the Kansas statute books prohibiting the sale or trapping of deer. I know of several parties interested in this same line, who have been hindered by this statute. D. A. Valentine of Salina and also Mike Hogue of the same place found this law to be a hindrance of commercial raising of deer. I have written our state senator regarding the matter to see if there is any chance of getting the law so amended as to make the sale of domesticated deer legal in Kansas, as I understand several states have already amended their game laws in this manner.

I sincerely believe that anything you could do to favor such an amendment to the game laws would be greatly appreciated, not only by myself but by a good many other people scattered throughout the state.—H. E. Dodge, Manhattan, Kan.

A careful inspection of the statute books fails to show any law bearing upon this question of raising and marketing deer except section 3892 of chapter 47. This section is as follows:

"It shall be unlawful for any person or persons at any time within the state of Kansas, except as hereinafter provided, to hunt, catch, kill, shoot, pursue, entrap or ensnare any antelope or deer for a period of 10 years from March 13, 1908."

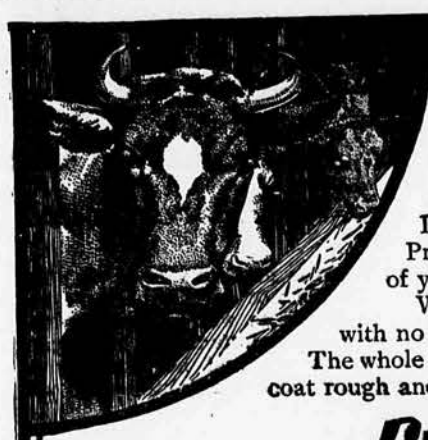
I have consulted with the author of this law and one of the best lawyers in the state and am assured that there is nothing in this or any other Kansas law to prevent the raising and selling of deer in a commercial way. The law quoted was and is intended to apply to game animals but deer raised in captivity do not come under its provisions. The city of Topeka has lately bought seven head of deer from a farmer in Shawnee county with no thought of law violation. Our friends can safely engage in deer farming in Kansas so far as the law is concerned.

The Renter and Improvements.

In your issue of December 31 you published a letter from G. A. Phillips referring to the troubles of a renter in securing proper improvements. Of course, every one knows the extent of those troubles and what we are seeking is a remedy. You suggest long leases and better cooperation between the landlord and the tenant.

With regard to long leases, I do not see how that will help matters to any appreciable extent. It might help if the tenant were very well known to the landlord, but on the average would have but little value with most of the problems we meet. Then, there is the difficulty in getting those long leases. Most landlords hold land for speculation and are unwilling to spoil the chances of a profitable sale by having it under long rental contracts. This is to their personal interest and they can not be blamed. Men do not do business on a golden rule basis no matter how much we should like to have them do so. They will not give long leases for the reason that leasing is a secondary matter with them. Better cooperation is hardly in the range of the possible for the same reason. We must remember that in business men leave sentiment and brotherly kindness at home.

There is one solution not only of the improvement problem but of all other problems arising out of the tenant question, and that solution is make all farmers farm owners and end the landlord and speculation phases altogether. We made a very grave error when we allowed the title to land to slip out of the public name. What we should have done was to have held the title, at least to all original public lands, and hold this in the public name, and then have given a "use title" good during the life of the occupant and so long as he farmed up to the proper standard. A certain percentage of the produce should have been reserved for the purpose of improving the land, and provision could have been made for a non-robbing system of tillage. In two other ways this would have been a blessing to mankind. The laborer would have paid less for his living and the farmer would have been able to expend a large share of his income upon comfortable living and the improvement of himself and his family. This golden opportunity has slipped by but not beyond our reach. Our national military expenses for six years would buy the whole state of Kansas. Would it not be infinitely better to spend this money for such a purpose? This is too big a subject for a letter, but I think it well worth some thought and discussion. We should not be so blind to the interests of a large class of mankind as to reject any plan to advance their comfort and well being simply because it is new or radical. I am a renter and a college graduate but I confess my inability to utilize a very great deal of the information gained in that college course so long as another man owns the land I till. And, too, I know that the percentage of land farmed by renters is increasing constantly and at an amazing rate. Any consideration of agriculture in the future must be from the renter's point of view if it is to have any value at all. This is what gives the question we are discussing its vitality. Personally, I see no other solution than that here outlined, but I am ready to receive any other solution that will solve.—A. Franklin Turner, Formosa, Kan.



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Don't forget that every cow needs Pratts Animal Regulator this time of year.

Winter confinement on dry fodder with no exercise means inactive bowels. The whole system clogs up; the blood is poor; coat rough and loss of flesh invariably results.

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keeps bowels active and regular; purifies the blood; aids digestion and insures to your stock all the nutriment in the feed.

It cures and prevents disease and insures perfect health. Cows will give more and richer milk when Pratts Animal Regulator is used. Feed it to all your cattle, horses and hogs. It is the greatest known help to successful stock raising. Pratts Animal Regulator is

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Ask your dealer about us. Give Pratts Animal Regulator a trial. 25 lb. pail $3.50. Put up in smaller packages and 100 lb. bags. At all dealers.

Pratts Bag Ointment cures sore teats and caked bag.

Let us send you our free booklet, THINGS YOU OUGHT TO KNOW about Horses, Cows and Hogs.

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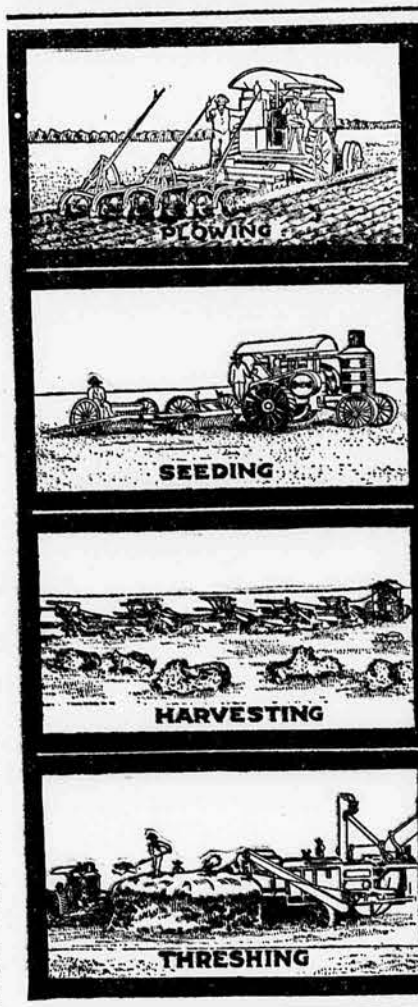

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You can take a **Hart-Parr Gas Tractor** and do more and better plowing, seeding and harvesting with it than with all the teams you can profitably employ. Its deeper plowing, more thorough harrowing and even seeding, assure an increased yield; and its enormous capacity enables you to get through each season's work ten days to two weeks earlier than is possible with horses.

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It is a money-saver and a money-maker from the minute it arrives on the farm. We build three sizes, suitable for farms from a quarter section, up.

Cheapest to Buy—Cheapest to Operate.

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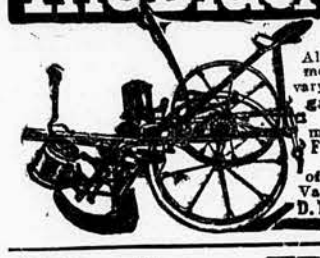

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Always drops exactly the desired number of grains in every hill. Simply moving the lever changes instantly to 2, 3 or 4 kernels as desired. You vary the drop to suit the soil. The slots in the seed plate **take the grains edgewise**—they cannot miss or double. Drop is uniform. The double channel shank—found on no other planter—prevents mixing, doubling, or dribbling. Changes instantly from drop to drill. Frame is of steel, strong and well braced; perfectly balanced.

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CHATHAM FANNING MILL and Seed Grader

Cleans and grades all kinds of seeds, grasses and grains. Don't grow weeds or thin stands. Land and taxes are too high. Double the crops, get better crops and have high-priced seed to sell. Send postal now for my factory price, liberal terms, and get **FREE BOOK No. 114.** Tells how thousands are making big, extra profits with a Chatham. Send your name by next mail. Address Manson Campbell, Pres.,

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YOU can't afford to miss this proposition on the only reliable, self-regulating windmill. This wonderful mill fools a cyclone—automatically folds its wings and lets cyclone *pass through*. Also works in lighter winds than other mills. Gives steady power, day after day and *more service*. Every man who has water to pump, *can put money in his pocket* by using this mill—the greatest wind-engine ever built. Outlasts any two steel mills. No jar—saves rapid wear. Practically no repairs—no worry. Needs oiling only once a year. No noise.

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are built of the best material by skilled workmen—backed by 40 years of success—warranted to you by our ironclad guarantee. Most efficient and durable. Thousands of satisfied owners have proved it. Read the letters and the surprising cyclone record of the Althouse-Wheeler in our *free illustrated book*. Shows you the biggest power value for the money. *Don't miss this chance. Write today.* Then read the book and satisfy yourself.

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Furnishes all the power for operating—runs sickle, elevates, binds. Saves the horses—all they do is draw the machine. The original binder engine. Light—weighs only 165 lbs.—but very strong and powerful, and fits any binder. Complete attachments furnished.

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This engine is built for those who want the best. We furnish any size or style; hopper jacket or water tank type. We ship promptly. Everything is complete. Our prices are right. Inducements to introduce in new localities. Write for catalog, stating size wanted

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Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.

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A Small Concrete Mixer.

For laying walks, building well platforms, crib foundations piers or other concrete work where a large quantity need not be mixed at one time, the home-made barrel mixer shown in the accompanying cut will be found of value. The door in the side of the barrel must be large enough to permit of easy filling and emptying and

should be fastened into place with buttons rather than hinges. The axle may be a piece of gas pipe and extend through the barrel. The cross-pieces on the ends of the barrel may be put on before the holes are bored for the axle. The mixer may be set on any sort of frame that is high enough for convenient dumping and the shoveling out of the concrete from beneath. The stability and value of cement concrete work depends upon two things: proper mixing of ingredients and proper setting of the finished work.

Crops Not Made of Humus.

Dr. Hopkins explains the peculiar work of humus in the soil, dispelling a common delusion as follows. Many people have a notion that humus is the great factor in crop production, and that if a farmer had good humus, he could grow a good crop. This is one of the greatest mistakes in agriculture. Crops are not made of humus. Humus, for its own sake, furnishes nothing to feed plants. It is merely a tool to help make plant food available, to help hold moisture and liberate plant food. It has no part in feeding plants so long as it remains humus.

Decaying organic matter is confused with humus. Organic matter includes the vegetables and animal matter that accumulates in the soil. Humus is the part of organic matter that is resistant to decay, the part that remains of organic matter after it has lost its form. Humus is the black mass in which you cannot tell corn stalk, oat straw, or what it was.

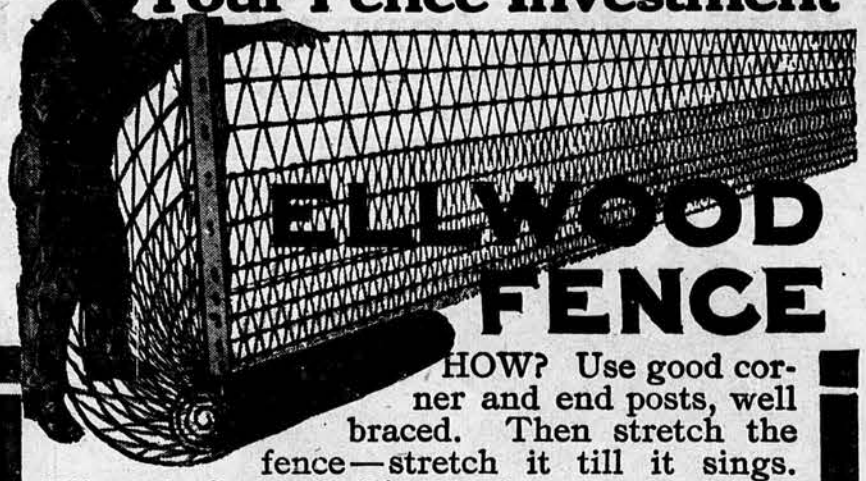
Decaying organic matter is of very much more value than humus. It is the action you get in the process of making humus that is most valuable. The humus itself is very inactive; it has been in the soil for hundreds of thousands of years and will remain there yet. The key to the humus problem is nitrogen. If you will maintain the supply of nitrogen in the soil, you need never give a thought to humus.

Sowing Small Grains.

There is a right way and a wrong way to plant. Soil conditions vary, even in adjoining fields, and no ironclad rule can be made to fit every condition. It is essential to have the land in proper condition for seeding, and no one will deny it. Some men get in such a hurry to seed that they think they cannot possibly wait another hour, so they get stampeded, mud in their crops and then wonder why their more successful neighbors get more bushels to the acre. Yes, it pays to plant right. It pays to have a good, reliable grain drill to do the work—a drill that will handle any size seed in any quantity desired. The farmer who really wants to put his seed in the ground and give it root room in a wide, broad seed bed, will investigate that old reliable grain drill, the Farmers' Favorite, manufactured by The American Seeding-Machine Co., Incorporated, Springfield, Ohio, is a drill that can be thoroughly relied upon to do the work of any farmer in any part of the world. Among the many styles and sizes of Farmers' Favorite Drills will be found drills exactly suited to the seeding conditions anywhere. This drill is guaranteed in such a way that the purchaser runs no risk. Send for the Farmers' Favorite catalogue. Go to your implement dealer and insist on looking over the Farmers' Favorite Drill.

If the lamp's blaze sputters and burns low, while the lamp bowl is full, it is a sign of water in the oil, and a water soaked wick. Throw the wick away, put in a new dry one and empty the oil bowl to fill again with unwatered oil.

Get the Full Value of Your Fence Investment



HOW? Use good corner and end posts, well braced. Then stretch the fence—stretch it till it sings. Ellwood fence will stand any stretching. You cannot break it.

Erect your fence in this way and it will last twice as long. Any fence dealer can supply the tools. *It costs no more to erect a fence properly.* It requires no greater effort if you expend a little thought to get the knack of doing it. Our dealer nearest you will give you a booklet explaining how to erect a fence—how to make the work easy and right.

The steel in Ellwood fence is specially made for the purpose from carefully selected stock. It is hard, elastic, tough and springy. The line wires, composed of two or more wires twisted into cables, give each individual wire the shape of an elongated coiled spring. The fence is therefore sufficiently elastic to take care of expansion and contraction, and yet so rigid when properly stretched as to prevent sagging. The small and permanent mesh is made by weaving one continuous wire throughout the fabric. The mesh or stay wires are so interwoven that slipping is impossible. The triangular truss is the strongest form of construction known. For this reason, Ellwood fence will stand the hardest usage and still retain its shape.

Ellwood Fence is sold in your town. Look for the Ellwood dealer and let him show you his different styles of fence and quote you his low prices. Get his expert advice on your special needs. He is on the spot, buys in large quantities, gets the lowest carload freight rates, demonstrates quality before your eyes and is the man from whom you will get the most for your money.

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It's the simplest and handiest—two horses can handle it—spreads any kind of stuff—no breakage bills—long life—satisfaction all the way—it's a money-maker every day—it pays you big profit on every crop you use it. Now prove this out. Find out that you can make this saving. I know something about the spreader business you ought to know; let me tell you. Write me and don't put it off till tomorrow. —WM. GALLOWAY

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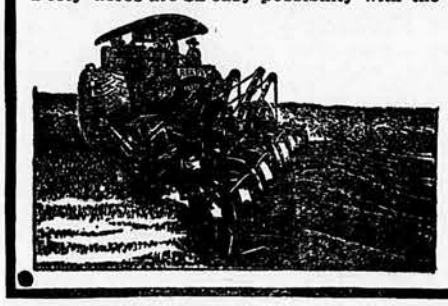
Forty acres are an easy possibility with the REEVES MULTIPLE GANG PLOW. The only really successful outfit is the

Reeves Flexible-Frame Engine Gang Plow



because it does perfect work in all conditions of land. Flexible frame and running of plows in pairs gives REEVES PLOWS a great advantage over others. There are a dozen points of Reeves superiority.

WRITE FOR FREE BOOK

telling the whole story of traction plowing. Shows plowing scenes and gives letters from users. Either steam-lift or hand-lift plows can be furnished for either steam or gas tractors.

REEVES & COMPANY
118 5th Street, COLUMBUS, IND.

PAINT SILOS AND WOODWORK WITH

Avenarius Carbolineum Registered.

It preserves woodwork, stops decay. Doubles life of Silos and all woodwork. Used for barns, roofs, windmills, fence posts, chicken coops (lice killer), etc. Easily applied. Freight prepaid. Beware of imitations. Circulars free.

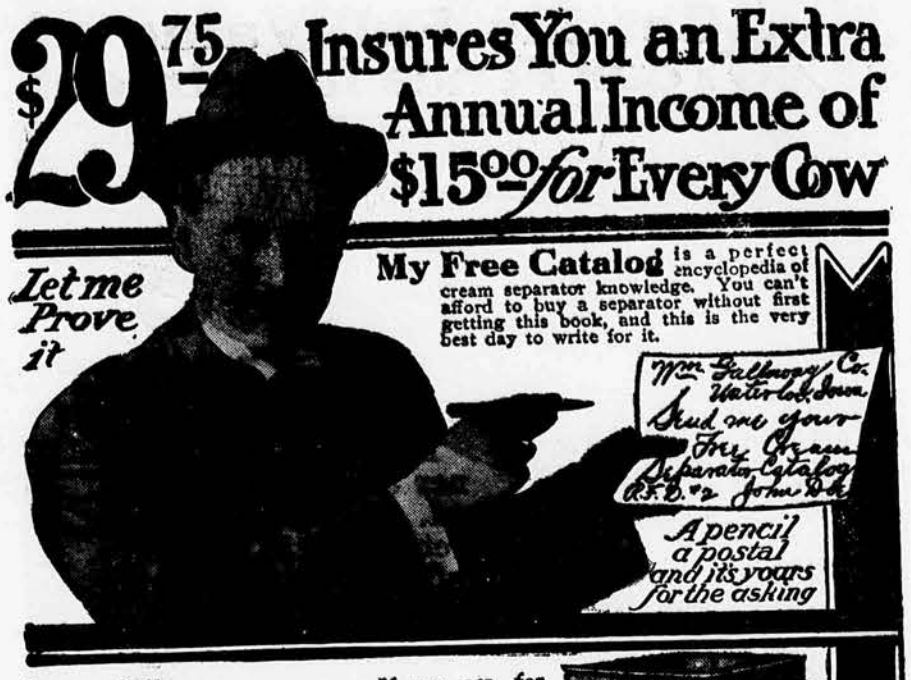
Carbolineum Wood Preserving Co. Dep. 88, Milwaukee, Wis.

$10.00 Sweep Feed Grinder. | $14.00 Galvanized Steel Wind Mill.

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

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

$29.75 Insures You an Extra Annual Income of $15.00 for Every Cow



Are You Skimming by Hand?

If you are, for your own sake wake up to the fact that you are actually losing $15.00 a year on every cow you own. This is an absolute fact. It has been positively proven at the different experimental stations of our agricultural colleges that a good cream separator will get $15.00 more cream annually from a cow than you can get by the gravity or hand skimming process. And then, think of the convenience—time saved—disagreeable work avoided—and the fresh, sweet skim milk which can be fed while still warm to your young stock. You can't afford to put this matter off another day. Even if you only have two cows it will pay you in actual dollars and cents to buy a machine. Just think of it, a high-grade, standard Galloway Separator for only $29.75 or the extra profits you can make from two cows when you consider the time and labor saved worth something.

Perhaps you feel that you can't spare the money just now to buy a separator. But there's a way. Your bank will let you have the money, and even at 7% interest it will only cost you $2.35 for the use of enough cash to buy a Galloway. At the end of the year you will have made enough in extra profits to pay back the principal and interest and have money besides to place to your credit in the bank.

But please remember that to get these results you must have a good cream separator—a machine that will get all the cream—all the butter-fat from your milk. I personally guarantee the Galloway Cream Separator to be equal in every way to the highest priced machine ever built. It is made better—of better material—skims closer—runs easier—is easier to clean—and will last longer than other machines costing from $25 to $40 more. I guarantee my Galloway for twenty years. I give you a free ninety days' trial to find out what it is and what it will do. Test it in any way you please. Put it alongside of any other machine you can find anywhere and if it doesn't prove the best in every way, send it back—it won't cost you a cent for the experiment, and you are to be the sole judge.

All gears run in oil

Freight Paid

90 Days Final Approval

20 Years Guarantee

All Sizes 200 to 1200 lb. Capacity

Prices from $29.75 Up

Your money back if not satisfied

Proof!-Read This-Proof!

Wm. Galloway Co.,
Waterloo, Iowa.

Dear Sir: We are only milking four cows at present, but with the small amount of milk we get if we didn't have your separator we would use almost all the butter we make; as it is, we make 10½ pounds extra each week for some of my customers.

Yours truly,
GEO. TENNYSON,
Dudley, Iowa.

NOW FIGURE THIS OUT FOR YOURSELF. Mr. Tennyson gets 10½ extra pounds of butter per week from his four cows since using the Galloway Separator. Figuring butter at a fair price, 30 cents per pound, he has increased his weekly profits from his four cows $3.15, or $163.80 a year. Divide this by four—the number of cows he milks—and you have $40.95, which gives you the amount of extra profits he is making each year from each cow by the use of a Galloway Separator.

Wm. Galloway Co.,
Waterloo, Iowa.

Gentlemen: We have been separating the milk of 14 cows and since we received the Galloway Separator our monthly checks are on an average $15.00 larger than the old way of hauling our milk to the creamery. So you see it has well paid for itself.

Yours truly,
F. W. BRIARD,
Gaylord, Minn.

THEN FIGURE THIS ONE AND SEE THE RESULT. Mr. Briard gets $15 a month more out of his fourteen cows than he did before buying a Galloway Separator. This means an extra cash profit of $180.00 per year—more than enough to buy three or four Galloway Cream Separators—and then think of the trouble it saves him in not having to haul his milk to and from the creamery every day, to say nothing of the washing of the many crocks and pans.

My New Booklet, "The Proof of the Pudding"

contains hundreds of just such letters as the above—letters fairly bristling with truth and enthusiasm for the Galloway Cream Separator and every one of them written by honest men who are daily operating my machine and know just what they are talking about. This booklet is free and will be sent you, together with my catalog, if you will send me your name and address.

Now, don't put it off. Right now is the time to get these two books and learn from the experience of others how the Galloway compares with the high-priced machines—how much it saves you in first cost—how much it will make for you in extra profits—how little it costs for repairs—how easy it runs—how easy to clean—and lots of other information you will be glad to get if you are interested in a cream separator.

THE WILLIAM GALLOWAY CO.
383 Galloway Station WATERLOO, IOWA

STRAWBERRY PLANTS

Of the best quality grown on new fields and under mulch early. Plants guaranteed to reach you in good condition. Also grow all kinds of small fruit plants. Have a very large supply of Asparagus plants, 1 and 2 years old. Our catalog is different from any you ever read. Address F. W. DIXON, Holton, Kansas.

LIVE STOCK

The Percheron Horse.

I hope you will not think I am boasting if I give you a little of my experience in breeding Percherons. The first colt I ever raised was a fine, high grade Percherons, as my father-in-law was at that time an importer of Percheron horses in Illinois. I got my colt for the trouble of breeding, and this gave me my opportunity of starting right in the horse business. In my twenty-six years of breeding experience I have never bred to anything but pure bred Percherons, and for twenty years of that time I have owned my own stallions. I have never bred to a stallion that weighed less than a ton at maturity, and I have always tried to raise the best.

During the panic of the 90's I kept right on breeding Percherons, and to the best of my recollection I never sold one of them for less than $80, and this when hogs were down to 3 cents and corn to 15 cents per bushel. From this you will see that the Percherons were about the best paying animal we could raise even at that time.

There is something about the breeding of good stock that creates a desire to keep going higher, so as I had the best grade mares I could get to start with I soon got them where it looked like I could get them no better. Then I saw where my mistake had been made. I should have bought just one or more pure bred mares on the start. As the sale for grade stallions was getting slow I began several years ago to sell my grade mares, and as I could get one registered mare for what I received for two grades I soon got a nice start of pure bred mares. As a draft horse without action never looked good to me, I have always tried to breed for size, with good, clean legs and necks well set upon the shoulders, and good, well sprung ribs, short backs with plenty of snap in them. With this combination I always get the action.

As I am only an humble farmer with 250 acres of land and about 40 head of pure bred Percherons and no help only what I hire, I do nearly all the feeding myself. This is one of the most essential things in the raising of pure bred stock. I perform all my farming operations with the aid of my pure bred mares, and if they are properly handled and fed they will easily do the work and will each raise a colt that is worth $200 to $300 at weaning time. I have a yearling stallion right now that tips the beam at 1,600, and his dam worked every day when she was suckling him. It seems to me the time has come when the farmer ought to cut out the scrub horses, as it is plain to be seen that they are not wanted on our markets. The present price of our land makes it impossible for us to raise a horse at a profit for less than $250 to $300, particularly as we have to feed high priced feed. I hope the time will soon come when every state will adopt the stallion inspection law and make it so rigid that it will drive the scrub stallions, whether they are grades or pedigreed, out of business.—J. W. Barnhart, Butler, Mo.

Mr. Barnhart's success as a breeder is sufficient evidence that he has long been on the right track, and if his advice could be taken about starting with pure bred animals instead of with grades, it would save many a man a keen disappointment as well as a money loss. It is a pleasure to say that Kansas is making an effort to strengthen her stallion registration laws, and to bring them into harmony with such laws made by other states.

Symptoms of Hog Cholera.

All cases of hog cholera do not show the typical symptoms. Generally two, or possibly three, hogs appear dumpish; the eyes watery; later the lids may before adherent. There may be a slight discharge from the nostrils. In the course of a week or ten days these hogs go off their feed and are attacked by diarrhea. The discharges from the bowels vary in color from black to grayish, are watery and of a very offensive odor. They now appear tucked up in the flanks and possibly thumping may be noted. They rapidly become thin in flesh and finally, too weak to move about, crawl under some straw and die. In a few days others become sick; those that were first attacked now begin to die, and in the course of three or four weeks, most of the herd may have succumbed to the malady unless remedial agents are administered and the ravages of the disease are checked. Pneumonia may accompany the disease, and when it is present, there may be noted accelerated respiration and a short, hacking cough.

There may be noted red or purple patches, particularly along the belly or flanks; this is particularly noticed in white skinned hogs. The ears may become inflamed and appear red and swollen. When the hog is opened, small hemorrhages may be observed on the thorax and abdominal cavity. Very small hemorrhages may be noted in the kidneys. The lymph glands (kernels may show hemorrhage in them. When the bones are cut open, the softer, spongy parts may appear reddish black, due to hemorrhages. If the stomach and intestines be opened, areas in the stomach will be noted bright red. This is an area of inflammation ,but may not always be present. The inflammation may effect only a part of the stomach. This inflammation may extend into the intestines. If the colon or large intestines be opened, there may be found ulcers varying in diameter up to one-half inch. These usually appear button like and are hence sometimes called button ulcers.

Importance of Dairy Industry.

According to the last year book of the Department of Agriculture, there are 21,720,000 milk cows in the United States, and these are worth $702,915,000. The magnitude of the industry can, perhaps, be best understood when it is considered that these cows produce yearly about $1,000,000,000 worth of dairy products.

There is no other branch of diversified agriculture so important to the progress of a community. The fertility of the soil can best be maintained by the liberal use of barnyard manure and the dairy herd not only makes this possible, but dairying is also more remunerative than other branches of farming when properly carried on.

Dairying has made wonderful progress since the advent of the modern creamery and the consumer of butter has not only been benefited by being furnished a more wholesome and palatable article of food, but the wife in the farm home has been relieved of the drudgery incident to making butter. Where formerly the cream was ripened and churned into butter under conditions not conducive to fine quality in the finished product, and in the majority of cases by unskilled hands, now the most of the milk or cream is delivered to a modern creamery where conditions are suited to the purpose of making butter, and the result has been a wonderful improvement in the quality of our dairy products. As the quality has improved consumption has increased, and the progress of dairying has been remarkable during the past decade.

The perpetuity of the country's greatness depends upon increasing the production of farm products from year to year, a result which not only furnishes our people with food, but maintains the prosperity of our farming communities. Increase in production can only come through improved methods of agriculture and soil improvement. When it is considered that the dairy cow is the foundation for soil improvement and farming prosperity, her importance is best understood, and interest in her should not be confined to her owner. She is an important factor in the development and prosperity of our country.—E. K. Slater.

DRAFT HORSE AND JACK SALE

The Kansas Public Sale Company will hold their **PUBLIC SALE** in the New Pavilion at the Fair Grounds, Topeka, Kan., Thursday, February 23, 1911.

50 **HEAD** of imported and native bred Registered and Grade Draft Stallions and Mares, consisting of Percherons, Belgians, Hackneys, Trotters and Work Mares, mostly in foal, together with 17 **HEAD** of young Jacks, fresh from the blue grass farm of Saunders & Maggard, Flemmingsburg, Ky. Jacks are now at the pavilion and some of them will be sold at private sale.

Your Opportunity to Buy the Best at Auction

CONSIGNORS—Granite Creek Stock Farm, W. T. Kinsey, O. L. Thistler, J. B. Brownrig, Saunders & Maggard, E. S. Travis, T. A. Hupp, John Harness, T. Gordon, Riverside Stock Farm, J. M. Collins, S. W. Wilson, F. G. Lange, S. C. Hedrick, J. M. Vanhale, W. L. Kirkendall, D. L. Viles, J. W. Thompson, J. T. Lawless, etc.

Get your Standard Bred race and road horses ready for our April sale. Entries solicited.

Catalogs mailed on application. Address,

O. P. UPDEGRAFF, Manager

AUCTIONEERS—COL. C. W. CREWS, COL. C. E. BEAN.

118 MULES, 24 MARES and COLTS

SALE at Alma, Kan., Wed. Feb. 22, 10 a.m.

4 4 and 5 year old mules; 37 3 year old mules, all broke to work, weighing up to 1,200; 65 2 year old mules, well halter broke, weighing up to 1,000; 8 yearling mules, halter broke, weighing up to 700; 4 thoroughbred jennets, bred to best jack in Kansas; two with colts by same jack (one jack and one jennet colt); 18 large brood mares, weighing from 1,400 to 1,800, all bred to jack; 3 2 year old colts, extra good; 2 1 year old colts, extra good; 1 registered 2 year old Percheron stallion. Mules are all home bred and from best mares and jacks in the country.

A 7 year old Kentucky jack, one of the best in the state, is offered at private sale.

On Rock Island main line and Santa Fe branch. Stock delivered on cars. Strangers should bring bank reference or certified check.

STUEWE BROTHERS, Alma, Kans.

Imported Percheron and Belgian *Stallions*

A number of fine stallions from the famous Holbert Importing Co., of Greeley, Ia., are now for sale at **Krause Feed Barn**, New Hampshire Street, Lawrence, Kan. All of them young stallions in the pink of condition, ready for service. Horses Right. Prices Right. Communicate with George Robertson, Lawrence House, Lawrence, Kan., or better, come and see them.

A. B. HOLBERT, Lawrence, Kans.

Percherons and Belgians

Our barns are full of the best Stallions and Mares we could buy in the old country; from 1 to 6 years old with plenty of size and quality. We pay no auctioneers or commissioners, but sell direct at prices that will interest you. A 60 per cent guarantee with every horse. Can show between trains.

Skoog, Reed & De Cow

Holdrege, Nebraska

ROBISON'S PERCHERONS

For sale now, 100 head of stallions, mares and colts, of all ages. All stock recorded in Percheron Society of America.

ADDRESS BOX C,

J. C. ROBISON, Towanda, Kan.

LAKEWOOD FARM

The Greatest Breeding Establishment in the World

Our Percheron winnings at the recent Chicago International, which is conceded to have been the greatest Percheron Show ever held in the world, has never been equalled before.

At this great show, we won:

CHAMPION STALLION, showing four of his get (CALYPSO)
CHAMPION AMERICAN BRED STALLION
RESERVE CHAMPION AMERICAN BRED STALLION
CHAMPION MARE
CHAMPION AMERICAN BRED MARE

Also TWENTY-FIVE other prizes. All of these CHAMPIONS were sired by the world's famous CALYPSO.

LAKEWOOD FARM IS HEADQUARTERS FOR THE BEST, and our prices are reasonable. Send for illustrated catalog.

H. G. McMILLAN & SONS, Props. **Rock Rapids, Iowa**

LAMER THE IMPORTER

50 head of Imported Percheron and Belgian Stallions and Mares for sale at "Let Live Prices." Write for catalog. Prices right.

C. W. LAMER, SALINA, KANSAS

VALLEY SPRINGS PERCHERONS

IMPORTED AND HOME-BRED STALLIONS AND MARES.

Stallions weighing 2,200 lbs. Mares weighing 2,000 lbs. Young stock from weanlings up with plenty of bone and best of blood lines.

KENTUCKY MAMMOTH BLACK JACKS AND JENNETS.

My fourteenth public sale at Lincoln, Neb., February 15, 1911.

O. P. HENDERSHOT, **Hebron, Neb.**

AVONDALE STUD FARM--CLYDESDALES

LARGEST IMPORTER AND BREEDER OF CLYDESDALES IN U. S.

Our winnings at the State Fair, including the Grand Champion Stallion of the International, 1910, is our best advertisement. Those wanting stallions or mares should write for catalog or visit the farm. To make room for other importations in February, we will make a special discount for next 30 days. We are 40 miles west of Peoria on the C., R. I. & P. Ry. **JOHN LEITCH, Proprietor, La Fayette, Ill.**

PERCHERON MARES

Weanlings to 4 years old in matched teams, including the Kansas State Fair and American Royal champions, all registered or can be registered in Percheron Society of America. Good clean lot of heavy bone mares and bred to the champion stallion of Kansas State Fair at Hutchinson, 1910. Come and see me.

F. D. WEBB, Sterling, Kan.

PERCHERON IMPORTING CO.

AT THE FOUR BEST SHOWS IN THE WEST WE WON:

12 times champion stallion any age.
6 times champion group of five stallions. 29 times first in stallion classes.
Champion Percheron stallion at Inter-State Fairs.
Champion Shire Kansas and Missouri State and Missouri State Fair.
Champion Belgian Kansas, Missouri and American Royal.
All our horses are imported. We sell as low as anyone on earth, quality considered. Our guarantee and insurance are the best.

PERCHERON IMPORTING CO., South St. Joseph, Mo.

W. H. RICHARDS, Importer

PERCHERON AND BELGIAN HORSES.

A car load of extra good 2-year-old and 3-year-old stallions recently arrived. Come and see these magnificent horses before you buy a stallion. I will make you some eye-opener prices just now. Barns only four blocks from A., T. & S. F. depot.

EMPORIA, KAN. **EASY TO GET THERE.**

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron Belgian Shire Stallions and Mares

NOTICE TO PROSPECTIVE BUYERS:

For the benefit and convenience of our Western trade, we have established a permanent branch barn at Abilene. Prospective buyers are cordially invited to inspect our stock here, and if you don't find just what you are looking for, we will be pleased to accompany you to the home barn at Homewood, Ill., where we can show you 100 head of big, drafty Stallions and Mares with plenty of bone and quality. Every horse guaranteed sound and a satisfactory breeder. Prospective buyers should see this stock before buying elsewhere. Third importation to arrive in ten days. Write us your wants, or better still, come and see us. Abilene is on the Rock Island, Santa Fe and U. P. railroads. Mention Kansas Farmer when writing.

Barns 2 Blocks North U. P. Depot. **S. METZ & SONS ABILENE, KANSAS**

C. H. PILCHER, Glasco, Kan. E. C. LOGAN, Beloit, Kan.

COMBINATION

Poland China Bred Sow Sale

At the Fair Grounds, Beloit, Kansas

Saturday, March 4th

40 head of the kind that has brought attention to both herds from all over the state. A draft from the two herds that is the equal of any offering in the west this spring. Everything bred for early farrow to the best advantage to one or the other of the great herd boars in the two herds. The offering consists of 10 tried sows and 30 March and April gilts. Seven of the gilts are by Winning Graniteer, eight by First Choice by old Grand Chief, six by the sweepstakes boar Conqueror. Some are by Kansas Medium and Impudence E. L. The 10 tried sows are by old Glasco Chief, Winning Graniteer and Kansas Medium. Also some by Skylark, by Skybo he by old Grand Chief. Among the tried sows are such sows as Sweetness by Winning Graniteer, the dam of much of the recent show stuff represented in this sale.

Mr. Pilcher is well and favorably known as a breeder who shows at leading stock shows and as a winner of considerably more than his share of the blue ribbons, while Mr. E. C. Logan is one of the pioneer breeders of Mitchell county, the home of good stock, and is the president of the Mitchell County Fair Association and actively identified with the Mitchell County Breeders Association. His herd of Polands at Beloit is well and favorably known. Their catalog is ready and can be had by addressing either party.

C. H. PILCHER, Glasco, Kan.
E. C. LOGAN, Beloit, Kan.

AUCTIONEER—JAS. T. McCULLOCH, CLAY CENTER, KAN.

Send bids to Jesse R. Johnson in their care, Beloit, Kan.

J. E. Clary & Sons

BIG SALE AT

Sheridan, Missouri

Wednesday, Mar. 8

10 head of extra fine Missouri and Kentucky bred jacks, from 2 to 7 years old. 30 head of horses and mules. 50 head of stock cattle, including 10 choice milk cows. 70 head Shropshire ewes, all bred to registered Shropshire ram. 40 head of Poland China hogs including 20 bred sows.

All jacks in this sale were bred and sired by us except two Kentucky jacks; all of them will compare favorably with jacks sold at the larger sales. Jumbo Mammoth, a 5 year old jack, black with white points, 15.2 hands high, extra heavy bone, extra head, neck and ear, weight 1,150 pounds, one of the best jacks in the country, will be in this sale, and the entire lot are extra fine. Every animal in this sale guaranteed as represented. All stock at buyer's risk after sold, but will be kept a reasonable time and loaded on cars free.

Sheridan is on the Chicago & Great Western R. R., 55 miles north of St. Joseph and 95 miles south of Des Moines, Ia. Four passenger train each way per day.

J. E. Clary & Sons

Sheridan, Missouri

AUCTIONEERS—COL. R. L. HARRIMAN, COL. J. W. EVANS, COL. JAS. HENSHAW.

W. J. Cody will represent Kansas Farmer. Sale commences at 10 a. m. sharp. Bids sent to auctioneers or fieldmen in our care will be honorably handled.

Stock Show and Sale

March 4, 5, 6, 7, 8, 9, 10 and 11, 1911

At Enid, Oklahoma

8 Days Exhibition of Fine Stock

Five Days Auction Sale

HOGS	CATTLE	HORSES
100 Head Poland Chinas and Duroc Jerseys.	100 Head Herefords and Shorthorns.	100 Head Standard Bred and all breeds of Draft and Coach.

Some of the best breeders in the Central West will sell in this sale.

Terms of sale cash, but each consigner has a right to name his own terms, and a fine lot of Standard Ered stallions will be sold for one-third cash, balance on one and two years' time.

F. S. KIRK, Sales Mgr.

Enid, Oklahoma

Catalog free for the asking.

"All Good Ones in the"

SUTTON FARM OFFERING

"Not a single bad one in the entire lot"

Thursday, March 2, 1911, Lawrence, Kan.

The View of the Owner

I invite the Berkshire breeders of America to attend my public sale of "All Good Ones" at Sutton Farm, Lawrence, Kan., March 2, 1911, and see the grandest lot of Berkshires ever offered at public sale.

My herd is rich in the blood of Berryton Duke, Jr., acknowledged by all to be one of the truly great sires of the breed. Berryton Duke Jr. has no superior as a breeder; all who have seen his litters marvel at their wonderful uniformity. He breeds good heads—fancy heads, if you please—and with these fancy heads he gets as much size and feeding qualities as any living boar. Many breeders firmly believe that he sires more good headed good hogs than any living sire. Come to the sale and see for yourself.

Very truly yours,
CHAS. E. SUTTON.

Offering will consist of 15 yearling sows, every one a good one.
25 ten months old sows, every one a high class individual.
10 open gilts, every one a show gilt.
3 boars that are outstanding.

The sows belong to such famous families as the "Jewels," "Royal Beauties," (Gentry) "Black Robinhoods," "Masterpiece," etc., and will be bred to either Berryton Duke, Jr., Charmer's Duke 29th or Artful Masterpiece—a trio of great breeding boars. Come to sale or send bids to O. W. Devine, who will represent Kansas Farmer.

CHAS. E. SUTTON,

Lawrence, Kansas

WNEE ALFALFA CLUB

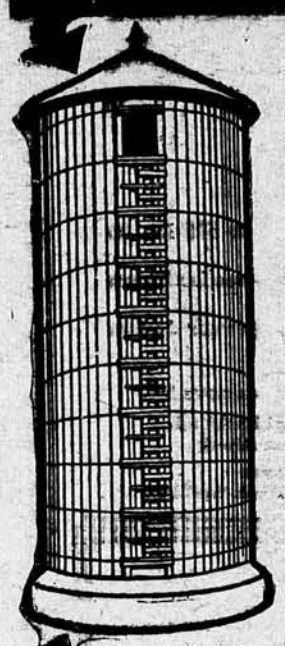
Continued From Page Four

ds than was cut from farms ther west, but agreed that place to use farm manure e alfalfa fields, and the best hich to sow alfalfa are the es on the farm. He stated n acres he put up last sea- icks of hay that were 40 12 feet wide and about 12 when settled. In his local rmers generally cut four lfalfa, though a fifth crop tly possible. In his own r. Burtis prefers not to cut rop, but to use it for pas- e gets the more immediate om it, and this practice is benefit to the land. In Wil- it is frequently difficult to first crop in good condi- ugh the other crops are cellent. Practice has taught to prefer to use alfalfa as ate in a ration for horses. that if alfalfa is used to ration it will produce ex- ults when fed to horses, arm is likely to follow the ding of this hay to these The fifth cutting is best for poultry. He teaches all his als to eat up clean what is n, so that there will be no other words, he does not ny class of live stock on The bottom land alfalfa is ly troubled with crab grass l, though both are bother- he uplands. The sandy soils county are inclined to be the application of lime is beneficial. Representative ed that he would not under- gage in live stock farming lfalfa, and while farm ll serve to correct many of o be found in Kansas soils, correct all of them. Many ll by reason of not knowing of the soil they try to there is now a bill before ture which provides for a y of the state, and this ave much merit in it.

tative Burtis has a fashion two crops on one piece of d he does this by sowing he fall and then sowing al- e wheat in the spring. This rrowed in to the benefit of and the insuring of a start lfa. Wheat protects the al- nst any early frost, and cut there is always enough in the straw to make ed. His practice is to cut op of alfalfa and wheat to- then get two more crops and use the field for late thout cutting the fourth or He is of the opinion that w that has been stacked in ere used to stack in alter- nate layers with fresh cut alfalfa it would make a feed that would be economical, and one that the animals will not eat entirely up. He is not much impressed with the idea of stacking alfalfa in the field or in a shed, because of the amount of moisture it will absorb from the atmosphere. He does believe in building an alfalfa barn with cattle stalls below where the manure will be of easy access to the manure spreader. He is not of the opinion tht alfalfa is a pasture plant, although he does use it for hogs, and after the season's work is over it is a splendid pasture for building up worn out horses. He would never use alfalfa as a pasture except in the fall, and where it is used for hogs during the season he would not attempt to cut it for hay. He says that the hogs will foul the plant more or less, so that other stock will not eat it well. A chicken is the only thing that will eat alfalfa after a hog has wallowed through it. He fences off certain pastures for his hogs and keeps them there for a season, and then changes them to other pastures the next season.

Senator Wm. M. Glenn, of Greeley county, denied any practical knowledge of alfalfa growing, though he is a keen observer of men and things. He stated that they do not raise so much alfalfa in his county, though there are some conspicuous instances of success in dry land farming of this crop. He mentioned that Congressman Madison had visited his county with the idea of testing out a new variety of alfalfa among the farmers. Several of these accepted the seeds from the Government but probably through failure to follow directions most of them failed. One of his neighbors, however, made a very pronounced success in raising this new variety by dry land methods. This is probably Grimm's alfalfa and seems to open up a new field. This variety has proved very successful in Colorado and has proved very hardy as compared with southern strains. Even that grown at Rocky Ford is not found to thrive in the northern part of the state or in the higher altitudes. Most of the common alfalfa is of Spanish origin, and came into the United States through Mexico and South America. Some of the German and Turkestan strains are hardy in type, but are poor seed producers, which is a very bad fault in alfalfa. Grimm's alfalfa has been grown in northern Minnesota for fifty years where it has stood every test. In Colorado, it has not only been very hardy, but a good hay producer and a prolific seed yielder, while it does not suffer from the leaf spot and some other diseases common to ordinary alfalfa.

Kansas Hinge-Door Silo



SAVES ITS COST EACH YEAR

It will enable you to keep three cows where you now keep one. It will reduce the cost of producing beef, milk, mutton and eggs. It will build up your soil and increase the value of your land. It will make one acre of corn worth two.

IS BUILT TO LAST.

Washington Fir, fully seasoned, is used throughout. Government tests have proven that it stands moisture and has a low degree of shrinkage and expansion.

POWERFUL FRAME AND LADDER.

A silo must be built to stand the storms that will come upon it. That is why we use a strong steel frame—the strongest frame we can build.

The ladder is made of malleable iron—will bear the weight of five men—steps 15 inches apart, with 7-inch clearance.

CONTINUOUS HINGE DOORS.

The HINGE DOOR is patented. It is the one great improvement in silo construction. It makes the KANSAS SILO the leader. The HINGE DOORS are always in place, easily swinging into and out of position and are not scattered about the farm as box covers or "stepping stones" across muddy places. They will not bind or freeze and do away with the necessity for carrying them up and down the ladder.

FULL LENGTH STAVES.

No "spliced" staves in the KANSAS HINGE DOOR SILO. Full length staves only, regardless of height. "Spliced" joints or two-piece staves are apt to bulge or break. The Full-Length Stave Silo is far superior.

HIGH QUALITY BUT NOT HIGH PRICE.

We could not build the KANSAS HINGE-DOOR SILO better. The highest quality material—every modern convenience—yet the price is but little higher than prices asked for Yellow Pine Silos, which soon twist, warp and decay.

Write at once for prices, together with fully illustrated circulars, and proof that the Kansas is the cheapest Silo you can buy.

CONTINENTAL CREAMERY CO.

BOX 211, TOPEKA, KANSAS

WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

For 13 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price. $2.00 for 15, or $5.00 per 45, and I prepay expressage to any point in the United States.

STATION B. THOMAS OWEN. TOPEKA, KAN.

ons For Horses and Mares

of alfalfa and oats too rich horses and brood mares? es run in the stalk fields plenty of oat straw. How s per day should be fed in with corn to yearling gilts What proportion of shorts should be fed to shoats? that one-fourth shorts and s corn was best and that tankage should also be F. Merrill, Solomon, Kan.

nd oats are both rich in both may be ranked as s. If the horses are not uld say that the oats ration aved entirely. When the put to work then a ration alfalfa would balance bet- with clean hay or other ould make a good ration. ment stations show that a rse or a brood mare needs n in its ration than does e, but that too much is as enough. For a 1,120 pound he farm the best ration he Utah Station was com- equal mixture of bran and pounds each, and alfalfa ds. If oats are to be used ration, then the following for horses on light work ght: Oats, 6 to 10 pounds, hay 6 to 9 pounds, and straw 3 pounds. If on heavy work the ration should be increased to oats 13 pounds, hay 12 pounds, and straw 3 pounds. Many mistakes are made in feeding horses too much of concentrates, and when this is the case the kidneys will show undue activity and the animal be weakened. It is rarely desirable to feed both oats and alfalfa as a full ration, though both may be used in a properly balanced ration. In the armies of all the great nations of the world both cavalry and artillery horses are always fed on rations composed of oats, hay and straw. This is for obvious reasons, though the farm horse has a much wider range to draw from and it is desirable to use it. In regard to the hogs, a recent experiment has shown that hogs fed on 4 pounds of corn to the head gained .8 of a pound per day, and required 537 pounds of feed for 100 pounds of gain. Hogs fed on 4 pounds of shorts made the same average gain a day, but required only 522 pounds of feed for each 100 pounds of gain. While hogs that were fed on a mixture of equal parts of corn meal and shorts averaging 3.8 pounds per head, made a higher daily gain and required only 439 pounds of feed for each 100 pounds of gain. Another experiment shows that corn fed with an equal mixture of 1.9 pounds of corn and shorts gained 1.1 pounds per day, and required 343 pounds of feed for 100 pounds of gain, while another lot fed on 3.1 pounds of corn meal and .6 of a pound of tankage gained 1 pound per day and required 331 pounds of feed for each 100 pounds of gain. Compared with these another lot of hogs was fed on 3 pounds of corn per day, only made a half pound of gain and required 557 pounds of feed for each 100 pounds of gain. The Agricultural College at Manhattan gives the following rations: For brood sows, corn meal 60 pounds, shorts 35 pounds, meat meal or tankage 5 pounds, with plenty of alfalfa hay or pasture. The growing ration for shoats should be corn meal 62 pounds, shorts 30 pounds, meat meal or tankage 8 pounds, with alfalfa hay or pasture. The small pig ration should be corn meal 50 pounds, shorts 40 pounds, meat meal or tankage 10 pounds, with plenty of skim-milk. This is a safe ration to follow with each of these classes of hogs.

A Permanent Pasture.

I have 8 acres of land that I wish to seed down to a permanent pasture, something that will stand hot, dry weather such as we have around here. The land is medium and has very little slope. I had sugar cane on it last season. Please tell me what kind of grasses, and the proportion of each, it will take, and when it should be sown. —Herman Longe, Fort Scott, Kan.

The following combination of grasses, planted in amounts as here given, undoubtedly would produce the best permanent pasture possible under conditions obtaining in the vicinity of Fort Scott

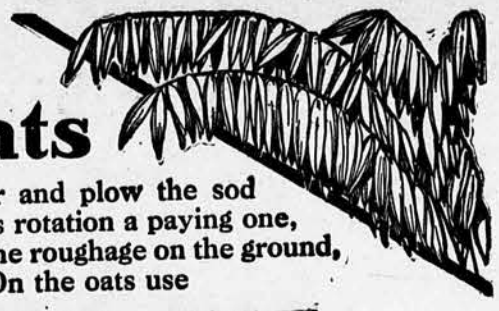
Meadow fescue (English blue grass), orchard grass or timothy, 8 pounds, in combination with Kentucky blue grass 12 pounds, and white clover 4 pounds or red clover 2 pounds. On damp lands Alsike clover should be substituted for red clover and Redtop for orchard grass, brome grass or meadow fescue, as the case may be.

Usually the best stand of grass is obtained by planting in the autumn, between the 15th of August and the 15th of September, on land that has been put into good seed-bed condition, that is to say, land that has been kept clean and free from weeds and is thoroughly compacted except on the surface, where it should be mellow about as deep as the seed is planted. Clovers sometimes kill out when planted along with grasses in the autumn, and for this reason we usually recommend planting clover in the spring, the grasses having made their start in the fall. Under such circumstances the clover should be seeded very early in the spring, the earlier the better, in order that the freezing and thawing of the soil, together with the spring rains, will cover the seed.

If the land in question can be placed in good seed-bed condition this spring, that is, if it is free from weed seeds and can be worked into a good firm seed-bed the clover and grass seed may be planted at the same time. The earlier this seeding is done the better, that is and avoid killing frosts.

Land that produced a crop of cane last year could be placed in good seed-bed condition for grasses by thoroughly double disking and harrowing same early this spring; plowing would be unnecessary and even detrimental.—W. M. Jardine, Professor of Agronomy.

If You Raise Oats



follow the oats with clover and plow the sod for corn. You will find this rotation a paying one, especially if you leave all the roughage on the ground, but—you can do better. On the oats use

POTASH

Let it form at least 6% of a complete fertilizer, applied 250 to 500 lbs. to the acre. It will make heavy oats and set the clover.

Write for valuable free booklets on how to make filler-free fertilizers for different farm crops.

We sell Potash direct, or you can get it through your dealer. Ask for prices, on any amount.

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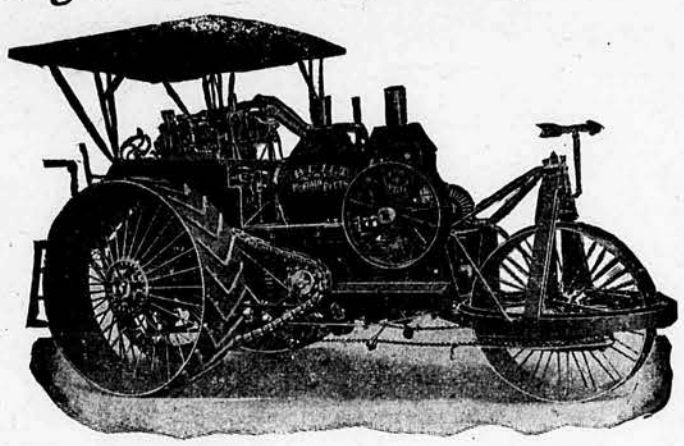
The Buffalo Pitts Gas Tractor

The Tractor That Will Satisfy You

Years in advance of others. Will be on exhibition at the Threshermans' Convention at Wichita, March 14th, 15th, 16th.

Has the personal endorsement (over their signature) of two hundred of the best farmers in the Northwest at the Grain Growers' Convention at

Fargo, N. D., January 1911



Ask Us About it.

BUFFALO PITTS CO., Buffalo, N. Y.

BRANCHES: Fargo, Minneapolis, Lincoln, Wichita, Houston, Madison.

Approved:—Nahum J. Bachelder,
T. C. Atkeson,
Aaron Jones,
Legislative Committee, National Grange.

PETITION AGAINST CANADIAN RECIPROCITY

We the undersigned farmers respectfully urge that the Canadian Reciprocity bill now pending in Congress should not become law for the following reasons:

1. The bill provides for the admission free of duty of all Canadian farm products. Since Canada is the only country from which any considerable quantity of these products can under any circumstances be imported this means free trade in practically everything the farmers produce.

2. While putting farm products on the free list the Reciprocity bill makes no material reduction in the high tariff rates on all the manufactured articles the farmer buys, and therefore gives him no relief from the heavy burden of taxation imposed by these duties.

3. The theory on which our protective policy has always been defended is that all classes are equally entitled to protection. The farmers, however, receive much less protection than the manufacturers for while farm products are taxed on the average about 25 per cent, manufactured articles are taxed on an average about 45 per cent.

4. The Canadian farmers by reason of their lower general tariff and preferential trade arrangements can buy manufactured goods at lower prices than those prevailing in this country. The prices of farm lands in Canada are also much lower than in the United States. These conditions give the Canadian farmers an advantage over us, and the free admission of their products will subject us to unfair competition.

5. To show that this reciprocity measure is not an honest effort to reduce the cost of living in the interest of the consumer, it is sufficient to point out that, while wheat is on the free list, flour is taxed 50 cents per barrel, and that while cattle, sheep, and hogs are free, meats, both fresh and cured are taxed 1¼ cents per pound for the benefit of the Meat Trust.

As the adoption of the proposed Reciprocity law would work a serious injury to the farming interests of this country, and would greatly reduce the value of our farm lands while increasing the value of Canadian farms, we earnestly protest against its enactment.

All farmers who are opposed to free-trade in farm products with a high tariff on manufacturers, should sign above petition and send it at once to their Senators and Congressman.

The GRANGE

Kansas Farmer the Official Organ of the Kansas State Grange.

By unanimous vote of the Kansas State Grange, at its annual meeting held at Olathe, KANSAS FARMER was made the official organ of that body.

Hereafter a regular Grange department will be conducted in KANSAS FARMER by Mr. O. F. Whitney, secretary of the State Grange. This department will be devoted to Grange news from all Grange territory, discussions of Grange principles and other matters of real interest to the members of this splendid order. Questions of partisan politics and sectarian matters will find no place in this department. The purpose of the department will be to afford a medium of communication between the officers and members and between granges; to foster the principles of the order and to extend its borders.

Communications intended for this department may be addressed to Editor KANSAS FARMER.

Why Join the Grange?

Because it is inexpensive.

Because it is the farmers' only organization national in character.

Because it has stood the test for forty-two years, and has never been found wanting in any respect.

Because it has exerted greater influence in securing state and national legislation in the interest of agriculture than any agency in the country.

Because it is offered by those engaged in agriculture, who know from experience the needs of farmers, and are sincere in their desire to aid them in every possible way.

Why Subordinate Granges Should Elect Members of Ability as Lecturers.

By observation, experience and information obtained by association with life long Patrons, and reading Grange papers we are fully convinced that the office of lecturer is the most important office in the Grange. Members must be interested and as our mission is one of education, you must educate—develop. Development precedes amusement. You can attend a nickel show and get amusement but real development must come from within. A year book with a year's work mapped out is a step in the right direction for a successful year's work. Nearly any member is capable of filling the office of lecturer but be sure and elect one who can and will work, then let every member give loyal support.

A Few Extracts from the Declaration of Purposes.

United by the strong and faithful tie of agriculture, we mutually resolve to labor for the good of our order, our country and mankind.

We heartily endorse the motto "In essentials, unity, in non-essentials, liberty, in all things, charity."

To develop a better and higher manhood and womanhood among ourselves, to enhance the comforts and attractions of our homes, and strengthen our attachments to our pursuits, to foster mutual understanding and cooperation, to maintain inviolate our laws and to emulate each other in labor and to hasten the good time coming.

We propose meeting together, talking together, working together, buying together, selling together, and in general acting together for our mutual protection and advancement as occasion may require.

February and March are good months to interest the farmer in our Grange. If any member is reasonably sure that in a certain locality a subordinate grange can be organized, communicate with your deputy and together go to work.

We have a grand and good proposition for the farmer and you Patrons know it. Now do not hide your light under a bushel, be generous and just and share your advantage with your neighbor. The Grange is large enough to accommodate all of our brother farmers.

The farmer must eventually organize. This can be very easily proven if one reasons on the subject at all, and chief among the many good reasons is the conservation of the fertility of the soil. The farmers of east realize this, and Massachus with 27,000 Patrons, New York a membership of 95,000, Maine re over 80,000, and little New Hamp near 40,000, proves that the farmer the older states realize that organ tion must come. Here in Kansas ganization seems to be in the air we have inquiries from various c ties where no grange exists, as for information, with a view of es lishing a subordinate grange. Co county—an old organized coun launched a new subordinate grange other day. A new grange was or ized in South Shawnee county wi list of 180 charter members. Let deputies get busy and help the c along.

Agriculture.

Agriculture, the basic industr the country and of the world, is titled to the foremost position in le lative affairs. History proves th all countries where agriculture prospered all other industries prospered, and where agriculture declined, all other industries have clined; therefore, the promotion o riculture means the promotion manufacturing, transportation commercial interests and the inte of the people engaged therein. culture does not depend upon othe dustries for prosperity, but other dustries depend upon agricultur the basis of their prosperity. prosperity that has been enjoye the people of the country in re years has been primarily due to magnificent crops the farmers o country have produced. Any that results in an increased crop duction, increases the prosperity o the people. The forty million p living upon the farms of the co are entitled to as great recognitio tariff and other legislation as an number engaged in non-productive dustries. It is one of the objec this organization to secure such re nition of the rights of the people non-partisan way as will result in greatest good to the greatest num —From National Master's Addres

Still They Come.

Three new subordinate grange the month of January with an ave membership of 80.

In one section it seems that a all the people who are eligible to m bership went in as charter mem We need more organizers in the and it is a pity we do not have for the people are ready and an to become members of a subst farm order such as the Patrons of bandry is known to be.

In organizing, do not overlook sisters. There must at least be in every subordinate grange, a man is only half a granger whe wife is not a member. The sister refinement and that homelike fe that is always noticeable in a and successful grange.

The women constitute about per cent of the membership of granges.

Help Us and Help Yourselves.

In the Digest of 1907, article section one, it reads, "The financ ports of subordinate granges sh made on the first day of January first day of April, the first day o and the first day of October. T the law and it will save much work if the secretaries will c with this rule. There are some dinate granges which have not r ported for the quarter beginning ber 1. Please all of you be and help us as well as showing ability for efficiency. Right her good time and place to tell a j the brothers. The sisters w secretaries are more prompt i ing the returns and also more fill the condensed report on the of the quarterly report tha brother secretaries are.

It will be well though not to this to the brothers, who do qui on an average.

Every subordinate grange, has not done so will please rep names of officers elected for O. F. Whitney, North Topeka, tary of Kansas State Grange.

FREE SEED

Manual, which tells all about our **Tested Guaranteed Sure to Grow Seeds.** Don't waste time and ground planting doubtful seeds. Get our large, handsome, 76-page illustrated and descriptive Book of Field and Garden Seed, which will increase your profits and help you to make money. Every farmer should have this **valuable 1911 Book,** for it is FREE. A postal brings it. Write today. Address

A. A. BERRY SEED CO., Box 405 CLARINDA, IOWA

EVERY LOCAL

GRANGE

should have a seal. We make special prices and have a guaranteed pocket size.

J. C. DARLING COMPANY

RUBBER STAMPS, SEALS AND STENCILS
Get Our Large Catalogue.
TOPEKA, KAN.

A PERFECT STAND

Of potatoes is what you will get with good seed and an Iron Age Planter. It plants 100 per cent. without misses or doubles or injury to the seed. Every seed piece placed, just right, at even spaces and covered uniformly. The boy pays for his labor 10 to 20 times over, and the planter pays for itself—ask any user. With or without fertilizer distributor.

75 YEARS IN BUSINESS

IRON AGE Farm and Garden Tools have "made good" and proven their superiority for 75 years. Send postal to-day for our Anniversary Catalog—it tells all about our Potato Planters, Cultivators, Diggers, Sprayers, Garden Tools, Wheel Hoes, Drills, etc., and is FREE. Don't delay.

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FREE Murray Style Book

Save $30

We want our 1911 Catalog in the home of every Farmer in America; 178 pages of genuine Buggy, Harness and Saddle bargains; 251 illustrations; 138 styles Vehicles, 74 designs in Harness. Biggest and best book ever printed. Murray "Highest Award" Buggies Direct from his Factory; 4 weeks' road trial; 2 years' guarantee. Send for this Big Free Book today.

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A Valuable 160-page book entitled

"SILO PROFITS"

Written by 200 of the most successful Feeders, Farmers and Dairymen in the World. Every farmer in America should read this book, and as long as our supply of these books last we will mail one copy free to each person asking for it. It gives the actual experience of these farmers and in their own words.

Our Factories are located at Anderson, Ind., Des Moines, Iowa, and Kansas City, Missouri. Write NOW for this book **"Silo Profits"**

INDIANA SILO COMPANY
311 Union Building, Anderson, Indiana

13¼ Cents a Rod

For 18-in. 14 3-4c for 22-in. Hog Fence; 15c for 26-inch; 18 3-4c for 32-inch; 25c for a 47-inch Farm Fence. 48-inch Poultry fence 28 1-2c. **Sold on 30 days trial.** 80 rod spool Ideal Barb Wire $1.45 Catalogue free.

KITSELMAN BROS.,
Box 61 MUNCIE, IND.

BROWN FENCE

Rust Proof - Bull Strong

Fences for horses, cattle, sheep, hogs, chickens, etc. 160 styles.

BARGAIN PRICES:
14 Cents Per Rod Up.

We pay the freight. Lawn Fences and Gates. Free catalog and sample.

The Brown Fence & Wire Co.,
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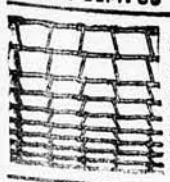

48 IN. FENCE a rod 25c

Best high carbon coiled steel wire. Easy to stretch over hills and hollows. **FREE** Catalog—fences, tools. Buy from factory at wholesale prices. Write today to Box 62

MASON FENCE CO. LEESBURG, O.

FENCE STRONGEST MADE. Bull-strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.

COILED SPRING FENCE CO.,
Box 256 Winchester, Indiana.

LEARN AUTOMOBILE BUSINESS.

You can do it in 12 weeks by mail, if you study one hour each night during these long winter nights. We will loan you a model of automobile while studying and will employ you the day you enroll and let you pay part of tuition after you secure good position. Write for plan 36 and copy of our magazine. It tells whole story.

THE AUTOMOBILE COLLEGE OF WASHINGTON, Inc.,
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The World's Greatest Motoring School.

PATENT your invention. Free preliminary search. Booklet free. MILO B. STEVENS & CO., Estab. 1864. 608 F St., Washington; 341 Mondanock Blk., Chicago.

Why All Farmers Are not Patrons.

We have been identified in one way and another with many movements for rural betterment and have been a member of a number of farmers' organizations, all of which possessed some merit, and none of them failed to accomplish some good in their brief career. All of them came into existence since the Grange was founded, and all except a few of the youngest have passed to the beyond. So many attempts to organize the farmers have failed that the difficulty in organizing them has become proverbial. Careful investigation of the causes of the failure in the numerous efforts to organize the farmers has almost persuaded us to accept the conclusion of Mr. Butterfield, that, "they become suspicious of one another, jealous of leadership, unwilling to keep the pledge of union, and unable to sink personal views and prejudices."

As a student of sociology we have tried to discover the cause or causes of failure of the score or more efforts that have been made since the Grange was organized in 1867, and invariably find that internal discord has been one of the dominating causes. Somehow they become inoculated with the deadly virus of distrust and unwillingness to submit to discipline and constituted authority.

If the Grange is to stand and work out its high ideals for human betterment it must be united; divided it must fall. It is only recently that we read in a leading daily paper that the Grange was breaking up into factions and must soon follow in the way of so many other farmers' organizations. Such a consummation is devoutly wished for by the special privilege and exploiting classes throughout the country.

Throughout all the years that we have been engaged in doing what little we could in promoting the interest of agriculture, the Grange and rural people, our constant prayer and effort have been for unity, and many a time have we repeated the song of David, "Behold how good and how pleasant it is for brethren to dwell together in unity."

If agriculture is ever to come into its own it must be by a united effort, and somehow the farmers must develop a capable, loyal, trusted leadership among themselves and an army of patriotic followers who are willing to trust the leaders of their own selection as other classes and interests trust their leaders. The paramount mission of the Grange is to develop and equip with leadership and discipline such a following as will give power and direction to the best and broadest of our national farmer thinking.

Doing our own thinking, such as it is, and being entirely independent of men or factions, we have given but little thought to the clamor about bosses and bossism, but our experience has taught us the necessity for, and importance of, capable leadership with ability to inspire confidence and faithfulness in the ranks. Some one has defined a leader as one who goes in the direction the people want to go, while a boss drives the people the way he wants them to go. Sometimes we are inclined to accept the dictum that a leader is the boss of our side, while a boss is the leader of the other side. We have no choice in these definitions.

Regardless of what we may think about this matter of leadership, it will ever remain a fact that no important human undertaking, whether social, religious, economic, political, industrial, educational or military can ever accomplish much that is worth while without a trusted leadership and a thoroughly disciplined and courageous following. This is the most important lesson the farmers of the country must learn if they are to hold their own in the fierce struggle for supremacy that is now going on.—T. C. Atekeson, Overseer National Grange.

A little less sausage and a little more exercise will make the world look brighter and cure any grouch about the government going to the "bow-wows."

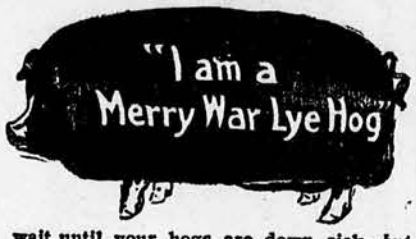
You have a windmill and water tank for your stock. It saves a lot of work and is better for the stock. Do you have running water in the house? Isn't your wife worth as much as a steer?

Which is better—the smile that won't come off or the hair?

How To Have Hog Health —Use Merry War Lye

Will you take a little friendly advice Mr. Hog Raiser, from one who wants to see you *increase* your pork profits? Then, please listen to this:

Just keep a supply of "MERRY WAR" LYE on hand, and mix and feed it with slop the year 'round. This *simple, easy, inexpensive* method will surely solve your hog troubles, for "Merry War" Lye was specially prepared to *prevent* and *cure* worms and cholera in hogs—*and does it!*



Save Those Fat Sides and Shanks

You know very well what it means when a hog loses interest in life and slinks around with a vacant stare in his eyes, hair standing up, appetite, growing less as he gets *thinner* and *thinner* every day.

Right *here* is where you want to get *busy*, Mr. Hog Raiser, if you want to save your carefully nursed profits in flesh and fat. For you'll never—NEVER—"cash in" on those fast vanishing sides and shanks, unless you *quickly* prevent Mr. Ailing Hog from passing in *his* checks and becoming food for the *rendering vat* instead of prime hams and bacon for the *breakfast table.*

"Merry War" To The Rescue

Now, don't *blame* the Sick Hog! *Cure him!* Help him and fatten your pocketbook—by using "Merry War" Lye, the only absolutely unfailing, *sure* specific for worms, cholera, and *all* hog troubles.

And remember this: An ounce of prevention is worth a pound of cure," when it comes to the matter of hog health. Don't wait until your hogs are down sick, *but keep them well.*

It's your fault, if they are not *always* in prime condition, because it's simply a matter of a little common sense and a little "Merry War" Lye.

Just Try This

Tablespoonful "Merry War" Lye mixed with slop for ten hogs, or one-half can with barrel of swill for larger quantity. *Stir well, feed night and morning.*

In a few days see *marked* improvement in your hogs. It cleanses the system, tones the digestive organs, puts sick hogs in *prime condition* and renders them *immune* from contagious diseases. This trial will convince you and the *expense* is too *trifling* to think about.

None "Just As Good"

Ask your dealer for "Merry War" Lye—and *insist* on getting it! There are *other* brands of lye put up for certain household uses, but only *one*—"Merry War"—is absolutely *safe* and specially prepared for *preventing* and *curing* cholera, worms and all hog diseases.

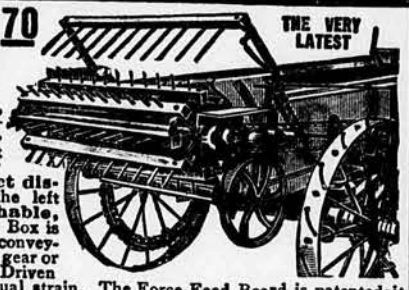
Explain this to your dealer, and if he can't supply "Merry War" Lye, write us and we will tell you of a dealer who can. We will also send you a valuable book—FREE—on *"How to get the biggest profits from Hog Raising."*

"Merry War" Lye comes in 10c cans or 24 for $2.00, at Grocers' or Druggists'. Ask for it today sure.

E. Myers Lye Co., Dept. 12 St. Louis, Mo.

MANURE SPREADER

30 DAYS FREE TRIAL. An Up-To-Date Spreader With More Good Points Than Any Other **$45.70**



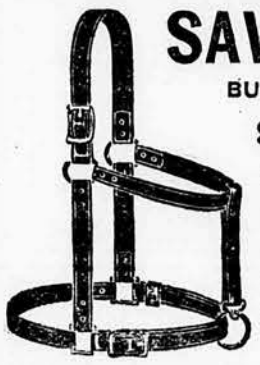
Special Points of Merit: Endless Conveyor, made of angle steel—can't rot, break or warp—lasts a lifetime. Excentric Force Feed applies power direct to ratchet force feed, which is controlled by hand lever, enabling you to spread manure thin, thick or medium. Perfect distribution at all times. When load is discharged, the left lever throws all working parts out of gear. A detachable, force-feed follow-up board is furnished free. Box is of hardwood; solid bottom, on which the all-steel apron conveyor works. Operated by only two levers. Not a gear or cog in entire machine. Fits any wagon gear or truck. Driven direct from both rear wheels, doing away with unequal strain. The Force-Feed Board is patented; it forces manure out of box, and is thrown out of gear when it reaches rear of box—an exclusive feature of the "Peerless"—not found on other machines. Guaranteed to be the best Spreader made.

Free Catalog Write today for our free catalog, describing the "Peerless" Spreader in every detail, and quoting wholesale prices of Farm Implements of all kinds. You will save big money and get the best. Catalog mailed free on request.

JONES, POST & CO., Successor to **JONES BROS. MERCANTILE CO.,** 807 Liberty St. KANSAS CITY, MO.

SAVE MONEY on HARNESS

BUY DIRECT AND SAVE DEALER'S PROFITS.



Special Halter Bargain Pure oak-tanned Russet leather; all parts 1½ inches wide, extra heavy stock, 5 or 6 rings. All heavily riveted with coppered tubular rivets. Over 5000 sold to retail dealers in Kansas and Oklahoma in 1910. Guaranteed equal to any $1.50 halter on the market. Our special price..... **$1.00 Each**

$11.00 PER DOZEN.

Satisfaction or your money back. Get your neighbors to club together and buy a dozen. We save you money on everything in the harness line. **Write for complete catalog of Harness and Saddlery. We send it free.** Simply send us your name on a postal card and say "Catalog." It will surely save you money.

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AGRICULTURAL COLLEGES, of the different states strongly advocate its use as a *Fertilizer.* It removes the acids from the soil and renders the plant food in the soil accessible to assimilation. by the plant. ¶Price $1.00 per ton, F. O. B. Fredonia. Delivered prices on application.

¶ WRITE US FOR BULLETIN

Fredonia Portland Cement Co.
FREDONIA, KANSAS

Write Me This Time Sure-

My Free Book now ready—hundreds of photographs taken by satisfied owners of Old Trustys

Johnson says: Old Trusty Incubators and Brooders are now recognized everywhere, by everybody who knows anything about incubators and brooders, to be the best machines on the American market—and sold for the least money.

Several years ago I adopted a policy of selling incubators and brooders on an 8 per cent profit plan. Competitors said it could not be done—that I'd "go broke" and go out of business on such a policy.

But they didn't guess right on the statement of the people.

I didn't have enough to go around for 1910—maybe I won't have enough to go around in 1911. But my prices will be still lower figured on 7%—because I find that I can reduce still further my manufacturing cost. On account of an increased output it costs less per machine to manufacture 100,000 machines than it does to make 75,000 machines—and each of my customers gets the saving.

1911 Book—Ready

I take a lot of pride and get a lot of pleasure out of writing my poultry book every year, because what I put into it is the result of actual experience, gathered by myself and by my thousands of poultry raising customers. There's no "hyfalutin" language in the book, no dreams of art as illustrations, but just plain, right-down-to-the-ground facts on poultry raising for people who want to make money with an incubator. And every illustration is an actual photograph. This book is not leather bound, nor hand illuminated, nor is it a de luxe edition. It isn't intended to be an ornament to your library shelf, it is just a big book of actual facts on incubators and brooders, written for people who want to know how to make real money out of their poultry—and make it quick with the least possible expenditure and outlay for the proper equipment to do it with.

Send Your Name for it Today

Old Trusty

Asbestos and Metal Encased
30, 60 and 90 Days' Trial
10-Year Guarantee

Under $10 Now

Johnson Pays Freight (East of the Rockies)

The Famous Old Trusty Incubator is the one that guarantees results with either the novice or expert, 80 per cent or better hatches guar nteed. 40 to 90 days' free trial, 10-year guarantee backed by $300,000 capital. A single hatch makes a profit on the purchase expense. All is explained in my simple and sure way in my big book with hundreds of photographs, a lot of testimonials, a lot of poultry information, a lot of feeding information, a lot of incubator experience from customers throughout the world—and a full description of Old Trusty Incubators and Brooders and how to use them.

With the book I quote you a price on these machines delivered at your railroad station—freight charges prepaid (East of the Rockies) and all ready to run.

Will you let me send you one of these books right away? You are not under the slightest obligation to me by asking me to send it to you. Buy wherever you want after you've read what I have to say.

Poultry raising is getting more profitable every year. Eggs and poultry are increasing in price every month, yet chickens are no harder to raise and don't cost any more to feed than they ever did. So higher prices for eggs and poultry mean increased profits for the producer.

Let me mail you my book at once. Just say on a postal—"Johnson, I want the book." I'll do the rest.

M. M. JOHNSON, Clay Center, Neb.

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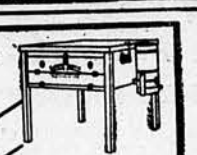
125 Egg Incubator and Brooder Both For $10

Freight Paid

Why pay more than our price? If ordered together we send both machines for $10.00, and pay all the freight charges. Hot water, double walls, dead-air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery underneath the egg-tray. Both Incubator and Brooder shipped complete, with thermometers, lamps, egg-testers—all ready to use when you receive them. All machines guaranteed. Incubators are finished in natural colors showing the high grade lumber used—no paint to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Send for the free catalog today, or send in your order and save time.

WISCONSIN INCUBATOR CO., Box 139, Racine, Wis.

"MONEY"



Can buy no better
Hatches more chicks
Uses less oil
Fire Proofed
Automatic
Prices Low

SAFETY HATCH

Freight Prepaid
10 year guarantee
Catalogue Free
Write for it today

Clay Center Inc. Co.
Clay Center, Kansas.

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155 EGG INCUBATOR CHICK BROODER BOTH FOR $11.25

Largest capacity, highest efficiency Incubator ever sold for so low a price. Made of special heat and cold resisting material with hundreds of dead air cells, copper tank, hot water heat. Order now—"Buy Back Guarantee" protects you, or send for "Progressive Method"—tells all about it. FREE.

Freight Prepaid East of Rockies

Progressive Incubator Co., Racine, Wis.
G. C. Wheeler, Mgr. Box 130.

$10 BUYS BOTH
125 EGG INCUBATOR, $8.00
125 CHICK BROODER, $4.00

Freight Paid

Get big hatches with our metal covered, double case, copper tank **NATIONAL INCUBATOR**

Automatic regulator, vermin proof metal case, roomy nursery. Freight paid east of Rockies. Write for new 1911 catalog, free, and bargain offer.

National Incubator Co., 153 18th St., Racine, Wis.

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140 EGG INCUBATOR and 140 CHICK BROODER Both For $10

The Incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. 30 Days' Trial—money back if not O. K. Write for Free Catalog today.

Freight Paid East of the Rockies

Ironclad Incubator Co., Dept. 73 Racine, Wis.

POULTRY

The mild, springlike weather in the early part of the month, was taken advantage of by the thrifty poultryman to start his incubator or at least to set a hen or two.

We are glad to hear from our readers at any time on matters pertaining to poultry. In a multitude of counsel is wisdom and what one doesn't know another may. So if you know of anything that may benefit your fellow poultryman send it in, and we will publish it.

It does not pay to feed the poultry spoiled grain, for there is nothing gained by so doing. Some folks think that any old thing is good enough for the chickens, whereas good, clean, wholesome food is just as beneficial to the chickens as it is to any other stock. The hens will give as good returns for wholesome grain as any stock on the farm.

Raise all the chickens you can attend to this spring and summer. You needn't be afraid of over-supplying the market. Fowls are comparatively scarce all over the country, the good prices offered for them have induced the owners to part with more of them than usual. There is going to be a big demand for thoroughbred stock the coming fall. Be prepared to cater to this trade.

One reader sends this: The best chick feed we have ever tried is cornbread. Just crumb it, without wetting, and give water in a separate vessel. Soft, sloppy food kills more chicks than cholera. Give the chicks access to sand from the beginning and after two weeks they can eat cracked oats, wheat and corn. Grease the head and under the wings when taken off the nest, on both the hen and chicks and get the start on the lice.

Another reader contributes the following: Before setting your hens, always get rid of the lice first; this is easier said than done. I have used sulphur, and have completely filled the feathers with it, but the lice would not budge. I have lately experimented with tobacco dust and find it a success; lice cannot live in it, it is too strong for them. I take a sitting hen and dust her thoroughly and also her nest before setting and one week before she comes off. If this is done she will have no lice to trouble the young chicks with.

Hens should have all the milk they can readily drink; no kind of food is better adapted to egg production. Some milk mixed with bran will not fatten them, but if given freely the vessels in which it is fed will need frequent cleansing to prevent them from becoming offensive. With milk to drink, fowls having free range will do well enough on one meal a day, as this will encourage activity in scratching and picking up what they can find. This meal should be given very early in the morning, and should be steamed clover or alfalfa, with a little corn and oat chop mixed with it and a little salt to make it more palatable. The birds will have a ravenous appetite and they can eat all of this feed that they want without injury. Fresh milk is preferable for chicks but the sour milk may be used for mixing ground grain food for the adult fowls. For ducklings it matters but little whether the milk is fresh or not, as they will devour either kind voraciously. There is 12 per cent of solid matter in milk, before it is skimmed and from 6 to 8 per cent after skimming. Fresh milk does not contain any more egg producing material than skim-milk, except carbon, which is easily obtained from other foods. Give the hens all the skim milk and buttermilk they can drink. For chicks the milk should not be sour, as it may cause bowel trouble, but adult fowls may drink all kinds without injury. Curds are excellent for hens and whey may be used with profit in mixing their mash.

What to Feed the Chickens.

While the general run of farmers feed their chickens whatever kind of grain they happen to have on hand, still it would be advisable at times to sell part of such grain and buy other kinds with the money, so as to give

Sam Thompson Says-

Try My Fairfield Incubator 2 Hatches at My Risk—Guaranteed to Hatch 90% or Better.

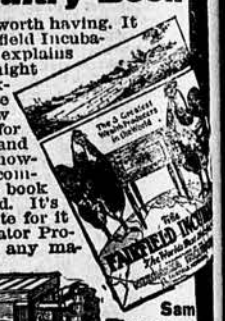
Poultry profits depend upon your incubator. The value of an incubator is judged by the hatches it makes. That being the case my Fairfield Incubator is the biggest value in the world for the money. It's built better—operates easier—hatches better than any machine you can buy.

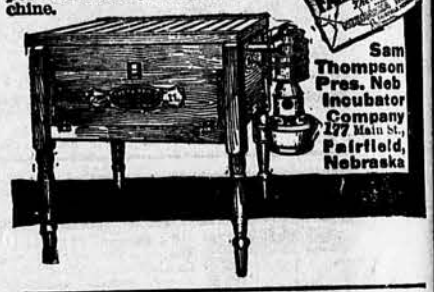
It's the world's best hatcher. To prove it I will ship you a machine for a two-hatch trial freight prepaid. I will give you an iron-clad guarantee that the Fairfield will hatch ninety per cent or better of all fertile eggs.

If it fails, if it does not come up to my claims, if it does not satisfy in looks, construction or in operation send it back at my expense.

That's fair and square and I want every reader of this paper to accept my offer. Write today for

This Big Poultry Book FREE! It's a book worth having. It tells of Fairfield Incubators and Brooders. It explains every point that you might want to know about chicken diseases, how to raise chickens profitably, how much room to allow for each, besides a hundred and one other facts worth knowing. It's the finest, most complete, the most valuable book of its kind ever published. It's free for the asking. Write for it today and get my Incubator Proposition before you buy any machine.





Sam Thompson Pres. Neb Incubator Company 177 Main St., Fairfield, Nebraska

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Big Incubator Value

Send for Free Book

Successful Incubators have always been superior to all others. This year they are better than ever before and the price is lower. Get our direct-to-you proposition and Big FREE Book and low price before you pay a cent for *any* incubator. We want to prove to you that this is the biggest *real value* ever offered.

Successful Incubators have 20 years experience back of them. Every fault of others eliminated. New special features developed this year. Ventilation, heating, regulation—all perfect. Don't experiment. Get a SUCCESSFUL—the sure, certain *money-maker*. Get our price and book NOW. If you want booklet on "Proper Care and Feeding of Chicks, Ducks and Turkeys," send 10c. Catalogue is FREE. Write postal.

Des Moines Incubator Co., 82 Second St., Des Moines, Ia.

Run by Rule

Mandy Lee

No Guesswork

Operate your incubator by rule, then you *cannot go wrong*. We measure moisture as well as heat in the Mandy Lee. Every incubator equipped with our famous Hygrometer, which others are trying to copy. Mandy Lee chicks are not left "dead in the shell" or hatched too weak to live. Great new ventilating principle—open-front poultry-house plan. Hatching fumes never confined in egg chamber. Constant fresh oxygen supply. New *lamp-heated and regulated* outdoor brooder. Write for Catalog, *Free*.

GEO. H. LEE CO., 1137 Harney Street, Omaha, Neb.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1911 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c.

C. C. SHOEMAKER, Box 899, Freeport, Ill.

Don't Let ROUP Steal Your Poultry profits. Prevent it. Use Walker's Roup and Cholera Remedy. A sure cure for roup. A reliable preventive and tonic. If you don't find it the best general poultry remedy you ever used, your money back. Send 50c for a box postpaid. Get free book "Poultry Troubles."

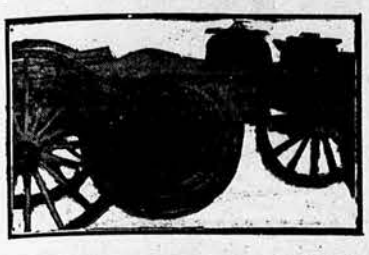
WALKER REMEDY CO., 90 MAIN ST., LAMONI, IOWA

SMITH'S LAYING STRAIN OF Barred Plymouth Rocks

Line bred, trap-nested, pedigreed for egg production. Every chick is pedigreed, every hen has a record kept of the number of eggs she lays; nothing but first class layers used in breeding pens. They will improve any flock of pure Plymouth Rocks. The farmer wants eggs, so don't fail to send for mating list and see what I have.

CHAS. E. SMITH
BOX F, BAYNEVILLE, KANSAS.

THE STANDARD REEL



"Gentlemen: The Little Giant wire reel is one of the best and most practical machines we have. If we could not get another, $50 would not buy it. H. Raabe & Son, Fountain, Minn.

Will wind or unwind wire as fast as a team can walk. It makes handling wire a pleasure. Write for testimonials and particulars. Agents wanted.

SPRING VALLEY MFG. CO., Spring Valley, Minn.

Ideal White Wyandottes

The great egg layers; large size and vigorous; the IDEAL farmers' fowl. They will improve your flock, increase your egg production. Eggs at the reasonable price of $1 per setting, $5 per 100.
C. O. PARSONS, Ideal Stock Farm, Clearwater, Kansas.

BOOMER'S BRED TO LAY BARRED ROCKS

Winners at the American Royal, Kansas City, and also won the prize on pullet eggs at the Mo. State Show at Kansas City against hen eggs. My matings this season, both cockerel and pullet, are the best that I ever owned and are sure to produce winners. My hens have trap nest egg records of 200 and over. Send for mating list that tells all about them.
F. P. BOOMER, Box 31, Holton, Kansas.

Peerless White Rocks

Winners at Topeka, Kansas City and Leavenworth. Still have a few choice ckls.; pullets on hand. Write for prices and mating list.
FRANK KNOPF
Box K, Holton, Kansas.

VESPER POULTRY SUPPLY CO.

Dealers in and breeders of 20 of the leading varieties of pure bred poultry. Eggs and baby chicks at all times. All kinds of poultry food and medicine. Agents for the Cyphers and Philo system incubators. Send 2c stamp for catalog.
116 EAST 7TH ST., TOPEKA, KANSAS.

EVERGREEN POULTRY FARM

Choice Barred P. Rocks; cockerels, $1.50 to $3 each; hens, $1.50 to $2.50 each, eggs from yards, $2 per 15; farm range, $5 per 100.
E. LEIGHTON, Effingham, Kansas.

SUPERIOR QUALITY
LINDAMOOD'S BARRED ROCKS

Is proven by latest winnings. At Newton, Garden City and Wichita they won 9 firsts, 9 seconds and 7 thirds. Eggs from pens $3 to $5 per setting; from range, $4 per 100. Send for circular.
C. C. LINDAMOOD, Walton, Harvey County, Kansas.

CHAMPION WINNERS

At Kansas City and Topeka shows. Single Comb White Leghorns and White Rocks. Write for prices. Mrs. J. C. Weis, Holton, Kan.

Webster's White Wyandottes

Winners wherever shown; unequaled egg layers. Write for low prices on eggs.
A. E. WEBSTER, Holton, Kansas.

For Sale -- Eggs

Rose Comb R. I. Reds. Pen 1, $1.50 per 15; pen 2, $1.25; pen 3, $1.00; $5.00 per 100. Rose Comb White Leghorns, $1.00 per 15; $5.00 per 100. Send for show record.
MODEL POULTRY FARM, Crane, Mo.

FINE POULTRY AND EGGS FOR HATCHING.

Barred, Buff and White Plymouth Rocks; W. Wyandottes; S. C. W. and B. Leghorns; Buff and White Orpingtons; R. C. and S. C. R. I. Reds; Light Brahmas. Eggs $2 to $5 per setting; $5 to $10 per hundred. Write us your wants. We can please you.
TOPEKA POULTRY CO. Topeka, Kan.

Leghorns S. C. White, Brown and Buff, also R. C. Reds. Eggs and day-old chicks in season. Still a few good cockerels. From leading eastern strains. Write Prosperity Poultry Farm, R. 2, Barnes, Kan.

BEES HOW TO MAKE THEM PAY. The pleasures, the work and the profits of bee keeping are fully covered in "Glenings in Bee Culture." 6 months' trial subscription 25 cents. Write for book on Bees and free catalog—both free.
THE A. I. ROOT COMPANY, Box 62, Medina, Ohio.

GOPHER Trap; best ever invented; satisfaction guaranteed. Circular free. A. F. RENKEN TRAP CO. Box 32, Kramer, Neb.

STRAWBERRY PLANTS guaranteed as good as grows at $1.00 per 1000 and up. Catalogue free.
ALLEN BROS., Paw Paw, Mich.

their fowls a variety of food. Every poultryman ought to understand something of the nature of the different kinds of food that is usually fed to fowls, so as to be better able to feed them in an advantageous manner. Oatmeal is a food that is not fed very extensively to poultry yet a more nutritious food is hard to find, being better than either wheat or barley. The proportion of fat in oatmeal is large, fully 5½ per cent. It has the advantage of being easily cooked if desired, though it is all right uncooked. It contains much nutriment, and this in small bulk. An excellent food this is to give to poultry, but it must be given cautiously, otherwise its fattening quality soon shows itself. Right enough if the fowls are wanted for killing in a short time, then it may be given often, but only a little at a time for laying hens, and then it should be mixed with other foods. If oats are soaked overnight and fed to laying hens, they make an excellent food. This saves the cost of grinding. Pinhead oatmeal for young chicks is one of the very best foods that can be given them. Wheat is poor in water and rich in olids, therefore very nutritious in small bulk. The starchy substances are large, yet easily digested. It contains useful salts, chiefly phosphates of potash and magnesia. It contains a small percentage of fat, usually about 2 per cent. Must be classed as one of the best all around grains for poultry. Corn contains a large quantity of yellow fat from 7 to 8 per cent. It is, like oatmeal, a very nutritious food, but must be given with caution. Some poultrymen consider that cornmeal is best given to fowls after it has been boiled, and not the grain, as then the birds are not nearly so liable to have diarrhea, a not uncommon occurrence after given whole corn, and especially where there may be a lack of grit to grind the food. A vast number of fowls are prevented from laying simply through giving this food to them too freely, their bodies are often lined internally with this yellow fat, often an inch or more in thickness. Peameal is a very good food to give poultry now and again for a change. It does not contain much fat and is very nutritious,

Rice is a very easily digested food. This is the reason it is given to young chicks, whose powers of digestion are not as great as those of adult birds. It contains very little fat, hardly one per cent, still it is a very healthy and appetizing food. Cracked rice fed to young chicks in conjunction with pinhead oatmeal will make them grow like weeds.

Potatoes contain a lot of starch, about 22 per cent. Potato starch is very digestible though potatoes contain very little fat, only about one-fourth of one per cent. They are not given to fowls so much on account of their nutritive qualities as for their supply of desirable salts.

Animal food must be supplied to fowls when they are unable to find any naturally. When fowls have access to grass runs or free range, they are generally able to find animal food for themselves, such as insects, worms and bugs. In winter, though, and in very dry weather in summer, fowls are unable to scratch for insects on the ground, it being so dry and scorched that few insects come within the birds 'reach. Then animal food, even if it is only a little now and then, ought certainly to be given them. Bones from the table may be given to them to pick, or fresh bones may be boiled, and the water in which they are boiled mixed up with their usual soft food. Crushed bones furnish one of the best of foods to give to young chicks; it makes them thrive wonderfully. Liver and lights got nice and fresh from the butcher's, boiled and cut up into very small pieces, will repay the poultry keeper for his trouble. The egg basket in the winter time looks all the better for this addition to their regular ration.

We do not believe in much condiments for poultry. A little pepper, mixed in the soft food on a cold morning will do good, and a little salt in all mash feed is advisable.

All these foods, if they be judiciously chosen, will be of benefit to your birds. Changing the diet frequently, keeping your fowls clean, allowing them sufficient exercise is of all other ways the one to make poultry keeping a success.

Some men are born good but their wives help some.

Make the Poultry Business a Real Business

That's my motto, friends. Go into it in earnest. Poultry holds out rewards for live people that beat any other business you can go into on the same investment.

I believe in making a *system* of poultry, of working to a definite end in a definite way, always looking out for the dollars. This system has come to be known as the

Queen Incubator Way of Making Poultry Pay

Wouldn't you like to have me tell you, my poultry friend, just what this means? I'll be glad to answer your letter. I am always glad to write to people who are trying to find a way to make more money out of their chickens. Write me. I have a fine proposition to make to you. You know I start people up in poultry—put the famous Queen Incubator in their hands on the make-good plan, and make the most favorable terms ever made on an incubator if you want to buy. My offer is personal to active, earnest people who want to make money. Address me personally.

WICKSTRUM, Queen Incubator Man
Box 28, Lincoln, Neb.

"Hatching Facts" Free

I want to send you my 1911 Booklet. Just send name and address on a postal—I'll mail you my latest edition of "Hatching Facts"—the most unique—most convincing—right-to-the-point piece of literature ever published on Incubators and Brooders and Poultry Raising for Profit. It gives you just what you want—quick—tells you how to start right at least expense. My Belle City Incubator won the World's Championship last season. "Hatching Facts" tells you all about it—tells you of hundreds of other wonderful hatches. Write for the Booklet today—or if in a hurry, order direct from this ad—hundreds of others do. I'll send book, too. Anyway, read my remarkable offer below. J. V. ROHAN, President Belle City Incubator Company.

$7.55 Buys the Best 140-Egg Incubator Ever Made

We Ship Quick From St. Paul Buffalo Kansas City or Racine

$4.85 Buys the Best Brooder

Both Incubator and Brooder, Ordered Together, Cost But $11.50—Freight Prepaid (East of Rockies)

Our Belle City Incubator will hatch more chicks, under the same conditions, than any other incubator, else your money will be refunded. This I guarantee. It has double walls and dead-air space all over, copper tank and boiler, hot water heat. The best self-regulator, deep nursery, strong egg tray, high legs, double door. "Tycos" thermometer, egg tester and safety lamp included.

140-Chick Brooder

The Belle City Brooder is the only brooder having double walls and dead-air space. I guarantee it to raise more chicks than any other brooder made. Hot-water, top heat, wire yard, platform and safety lamp.

A Complete Hatching Outfit for Only $11.50

No machines at any price are better—75,000 in use. Satisfaction Guaranteed. Write for book, "Hatching Facts" today, or send the price now and save waiting.

J. V. ROHAN, Pres.
Belle City Incubator Co., Box 18, Racine, Wis.

"NEW MONARCH" DISC HARROW

WHOLESALE PRICE DIRECT TO YOU $14.75

This is the most satisfactory working Disc Harrow ever put on the market. It has a high-carbon rigid steel frame; angle steel weight boxes; independent, flexible gangs; foot lever; oscillating spring steel, perfect working scrapers; correctly formed, high polished discs; dust proof, oil-soaked maple bearings; pipe oilers; double levers; foot rests and low down hitch. **NO NECK WEIGHT.** There is no neck weight, as the seat bar, which is reinforced, extends back of harrow, so that the weight of operator helps to counterbalance weight of tongue. You would have to pay your dealer about double our price for one not so good. Our method of selling at wholesale to consumer makes it possible for us to quote you this extraordinary price. Remember, we guarantee satisfaction, or money back.

A HIGH GRADE DISC HARROW.

INDEPENDENT GANGS. LOW-DOWN HITCH.

FREE CATALOG. Write today for our big free IMPLEMENT CATALOG. We sell all kinds of Farm Implements direct to consumer at Wholesale Prices. Catalog mailed free on request.

JONES, POST & CO.,
Successor to JONES BROS. MERCANTILE CO. 817 LIBERTY STREET, KANSAS CITY, MO.

Why Incubator Chicks Die

The book entitled, "The History of White Diarrhoea or Why Incubator Chicks Die," will be sent absolutely free by return mail to any one sending us the names of 5 to 8 of their friends that use incubators. This book can save you $100 this summer, it describes white Diorrhoea, or bowel trouble, the cause, and tells of a cure. Book absolutely free for the names.

Raisall Remedy Co., Blackwell, Okla.

FRENCH QUALITY REDS

New York, Boston, Detroit, Chicago, Providence and Alaska Yukon-Pacific Exp. winners. Grand lot of pullets and cockerels for sale from winners. Send for my egg circular.
R. S. FRENCH, Flushing, Mich.

(NO. 130.)

DE LAVAL and OTHER CREAM SEPARATORS

Every separator manufacturer and dealer attempting to compete with the DE LAVAL today claims his machine to be "like the DE LAVAL," "as good as the DE LAVAL," or "about the same as the DE LAVAL." Some even go so far as to falsely assert that it is licensed under DE LAVAL patents.

Their claims are true only to the extent that every one of them IS making a machine after some DE LAVAL type of ten to twenty years ago, on which the DE LAVAL patents have expired. But these copied old DE LAVAL types were either never good enough for the De Laval Company to actually manufacture itself or have been discarded by it at least ten years ago in its constant development and improvement of the cream separator.

Not a single one of these would-be imitating competing machines is in any way like the improved DE LAVAL separator of TODAY. None of them is capable of doing as good work, or being run, cleaned and handled as easily. None of them is nearly as well built or will last half as long.

There is not a prospective buyer of a separator anywhere who cannot SEE and PROVE the important difference FOR HIMSELF if he will only go to the trouble of looking up the nearest DE LAVAL agent or writing the Company if he can't find one.

It is well worth while for every intending buyer to do this. It means a saving in quantity and quality of cream and butter, time and trouble, twice-a-day, or every time he puts milk through the separator. It means a machine that will last twenty years instead of a few months or perhaps as long as five years at the outside.

It's the pleasure as well as the business of every DE LAVAL agent to explain and demonstrate the difference between DE LAVAL and other separators.

Why not take advantage of this and at least SEE and TRY a DE LAVAL before making so important an investment as the purchase of a Cream Separator?

THE DE LAVAL SEPARATOR CO.

165-167 Broadway
NEW YORK

173-177 William Street
MONTREAL

42 E. Madison Street
CHICAGO

14 and 16 Princess Street
WINNIPEG

Drumm and Sacramento Sts.
SAN FRANCISCO

1016 Western Avenue
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RANKIN MANURE SPREADERS

DAVID RANKIN

Are more worth having than any other kind. They are most up-to-date; lightest draft; most durable; most convenient and most satisfactory in every way. We prove it to you. Write us sure before you buy any kind of a Spreader. You save money buying from us and get better machines. We take all the risk.

30 Days Trial

Satisfaction Guaranteed

Write at once for our Special Price Offer and our Handsome New Catalog. We will sell one Rankin Spreader for a special price to introduce it in your neighborhood. A Cut Price to first buyers in new neighborhoods makes us money in the long run. Will you be the first to write us? The opportunity is open today. DAVID RANKIN MFG. CO., Box 51, Tarkio, Mo., U. S. A.

DAIRY

A lot of calf trouble is caused by carelessness in handling milk vessels. Any vessel which has contained milk should be thoroughly cleansed with scalding water and calves should uniformly be fed warm milk. It is best to feed the milk when it still retains the animal heat, but in any case the vessel in which it is fed should be warmed in cold weather before the calf's ration is set before it.

Milk is one of the most nutritious and valuable of human foods, and yet when it is not cared for it becomes deleterious or even poisonous. Milk absorbs odors very readily and when left exposed in the kitchen, pantry or refrigerator, where vegetables or other foods are kept, it soon becomes tainted and with every taint comes deterioration. It first loses in palatability, then in its value as a food and when old enough it becomes poisonous.

It is said that more silos were built in Kansas last summer than in all the previous history of the state. The man who had the foresight to put up one of these structures, can now congratulate himself on the full flow of milk he is receiving from his cows, and the ease and comfort with which he does his work. The dairy farmer or even the beef raiser who depends upon dry feed now finds himself handicapped when he compares results with the man who owns the silo.

According to man's ideas, nature does not produce perfection in domestic animals, though she shows a willingness to do so. The perfect domestic animal of these days is a man made product in which he has been greatly assisted by the operations of nature. The dairy cow differs from other cows but little, except as she has been bred for a special purpose through the intelligence of man. She is a milk producing machine, whose perfection could not have been attained by nature alone. Like other delicate machines she will do the work with but little care, but also, like other machines, she does her best work with good care. The better care this milk producing machine receives the greater the profit derived from it.

What the Cow Is.

The dairy cow, if able to express herself in a way which the human family would comprehend, might well lay claim to being man's best friend. She might establish such a claim by calling attention to the fact that from her product and from her carcass man manufactures more of the necessities of life than from any other similar source. She furnishes these necessities to him from infancy until such a time as temporal things are no longer associated with his existence, and she does it ungrudgingly and constantly.

In addition to contributing to man's necessity and his pleasure, the prosperity of an agricultural community is more closely identified with her than with any other of the domestic animals. The horse is quite essential in tilling the soil, but where necessity requires it the sturdy son of the cow can take his place, as he has done in every agricultural section on earth. The horse can only furnish labor and can only return a profit to his owner when conditions are right for returning satisfactory grain crops. It is a well known fact that the dairy cow is the salvation of the farmer in times of poor crops as she is able to convert the rough crops which are never a total failure, into dairy products which always have a cash value.

In addition to this, she furnishes skim-milk and butter for the calves, pigs and poultry and fertility for the soil, without which a farm becomes less prosperous.

The elimination of the dairy cow would necessitate an almost revolutionary readjustment of man's tastes and requirements. It would mean untold suffering and hardship. Of course she will not be dispensed with but her value can perhaps best be appreciated by contemplating such a loss.

She will continue to be man's best friend as long as the human family exists and will keep on supplying him with his greatest needs just as she has done through all the ages.

Official Holstein Friesian Score Card.

Secretary F. L. Houghton of the Holstein Friesian Association of America, whose office is at Brattleboro, Vt., calls attention to the fact that the score card published in KANSAS FARMER issue of January 14 does not comply with the requirements of the official score card now in use by that association. The score card which we used was one which has been used officially in this state for some time past but apparently without the sanction of the parent society. The official score card of the Holstein Friesian Association of America is as follows:

	Possible Score
Head—Decidedly feminine in appearance; fine in contour	
Forehead—Broad between the eyes; dishing	
Face—Of medium length; clean and trim especially under the eyes, showing facial veins; the bridge of the nose straight	
Muzzle—Broad with strong lips	
Ears—Of medium size; of fine texture; the hair plentiful and soft; the secretions oily and abundant	
Eyes—Large; full and brightg them	
Eyes—Large; full; mild; bright	
Horns—Small; tapering finely towards the tips; set moderately narrow at base; oval; inclining forward; well bent inward; of fine texture; in appearance waxy	
Neck—Long; fine and clean at juncture with the head; free from dewlap; evenly and smoothly joined to shoulders	
Shoulders—Slightly lower than the hips; fine and even over tops; moderately broad and full at sides	
Chest—Of moderate depth and lowness; smooth and moderately full in the brisket, full in the foreflanks (at through the heart)	
Crops—Moderately full	
Chine—Straight; strong; broadly developed, with open vertebrae	
Barrel—Long; of wedge shape; well rounded; with a large abdomen, trimly held up, (in judging the last item age must be considered)	
Loin and Hips—Broad; level or nearly level between the hook-bones; level and strong laterally; spreading from chine broadly and nearly level; hook-bone fairly prominent	
Rump—Long; high; broad with roomy pelvis; nearly level laterally; comparatively full above the thurl; carried out straight to dropping of tail	
Thurl—High; broad	
Quarters—Deep; straight behind; twist filled (with development of udder; wide and moderately full at side	
Flanks—Deep; comparatively full	
Legs—Comparatively short; clean and nearly straight; wide apart; firmly and squarely set under the body; feet of medium size, round, solid and deep	
Tail—Large at base, the setting well back; tapering finely to switch; the end of bone reaching to hocks or below; the switch full	
Hair and Handling—Hair healthful in appearance; fine, soft and furry; the skin of medium thickness and loose; mellow under the hand; the secretions oily, abundant and of a rich brown or yellow color	
Mammary Veins—Very large; very crooked (age must be taken into consideration in judging of size and crookedness); entering very large or numerous orifices; double extension; with special developments, such as branches, connections, etc	
Udder—Very capacious; very flexible; quarters even; nearly filling the space in the rear blow the twist, extending well forward in the front; broad and well held up	
Teats—Well formed; wide apart, plumb and of convenient size	
Excutcheon—Largest; finest	
*General Vigor—For deficiency Inspectors shall discredit from the total received not to exceed eight points	
*General Symmetry and Fineness—For deficiency Inspectors shall discredit from the total received not to exceed eight points	
*General Style and Bearing—For deficiency Inspectors shall discredit from the total received not to exceed eight points	
*Credits for Excess of Requirement in Production. A cow shall be credited 1 point in excess of what she is otherwise entitled to, for each and every eight per cent that her milk or butter record exceeds the minimum requirement	
*In scaling for the Advanced Register defects caused solely by age, or accident, or by disease not hereditary shall not be considered. But in scaling for the show ring, such defects shall be considered and duly discredited	
*A cow that in the judgement of the Inspector will not reach at full age, in milking condition and ordinary flesh, 1,000 lb., live weight, shall be disqualified for entry in the Advanced Register	
*No cow shall be received to the Advanced Register that, with all credits due her, will not scale, in the judgement of the Inspector, at least 75 points	

*Not now in use by Advanced Registry but of great value as an aid in judging cattle.

We are just as proud of the REMINGTON .22 Repeaters as we are of the REMINGTON Big Game high-power rifles—for just as good reasons. There is no other make of the .22 class built to as high a standard.

The features that place the REMINGTON .22 in a class by itself are the real big REMINGTON features—Hammerless and Solid Breech. You clean the barrel from the breech.

There is perhaps a greater difference between the REMINGTON and other .22 Repeaters than is to be found between rifles of any other class.

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Set of targets mailed free.

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get all the dope

If you're only thinking about a cream separator don't fail to do a thorough job so that when you buy you'll buy right. Look up the merits and faults of all the various kinds; ask everybody you see using a separator how he feels about it; get all the catalogs, and don't overlook the Economy Chief Dairy Guide for 1911. It's worth a lot of money to dairy farmers in every state. Ask for a free copy today.

Sears, Roebuck and Co.
Chicago, Illinois

EASTER POST CARDS FREE
Send me two 2c stamps and I'll send you 10 beautiful Easter Post cards and tell you about my big SURPRISE, T. T. MEREDITH, 63 Success Building, Des Moines Iowa.

Last year the United States exported 319,007 pounds of butter and 397,541 pounds of cheese. This shows a gain of 52,307 pounds of butter and 66,416 pounds of cheese as compared with the preceding year. With her rich endowment of cheap feed stuff, her plentiful supply of milk cattle, there would seem to be no reason why the exportation of dairy products should not keep on growing instead of decreasing as has been the case with other farm products.

The foundation of all our modern sanitary laws and practices may be traced back to the establishment of creameries. Milk is such a delicate substance, and absorbs odors and flavors so readily that the creameries were compelled as a pure matter of business to handle their products in the most sanitary manner possible. Out of their pratcices has grown the knowledge upon which our modern sanitary laws are founded. City customers are no longer satisfied with country milk unless they know the dealer and his reputation. Certified milk is popular everywhere, although it uniformly brings a high price. The mortuary statistics of the great cities show an enormous decrease in the death rate of infants due entirely to modern sanitary practices and for these we may thank the creameries and their methods.

The Butter Contest.

The first contest of the 1911 Educational Butter Contest will be held March 1, at the dairy building, Kansas State Agricultural College, Manhattan, Kan. All of the butter-makers of Kansas are urged to get their butter in by February 26.

It is expected that this will be the largest series of contests ever held in this institution. More and larger prizes than ever are offered. The following firms have made cash donations toward the prize fund:

Creamery Package Mfg. Co., Kansas City, Mo.	$25.00
De Laval Separator Co., Chicago	20.00
Vermont Farm Machinery Co., Bellows Falls, Vt.	10.00
Boerner-Frye Co., Iowa City, Ia.	5.00
Jensen Manufacturing Co., Topeka, Kansas	5.00
Worcester Salt Co., Chicago	5.00

This will be divided into the following prizes:

For the highest average score, a prize of	$20.00
For the second highest average score prize of	15.00
For the third highest average score, a prize of	10.00
For the fourth highest average score, a prize of	5.00

The final contest which will be during the institute week in December, will have the additional prizes

Highest scoring tub	$10.00
Second highest scoring tub	5.00
Third highest scoring tub	3.00
Fourth highest scoring tub	2.00

The J B. Ford Company, manufacturers of Wyandotte Dairymen's Cleaner and Cleanser, offer the maker of the highest scoring tub for the year, an elegant carving set and the maker of the second highest tub, a cut glass sugar and creamer.

E. Sudendorf, western representative of the Wells-Richardson Co., offers a choice of an office or a parlor clock to the man having the highest average score using their color, and a bonus of $5 if he has the highest score of all; and the Diamond Crystal Salt Co. offers a silver loving cup to the winner of the series, provided he has used Diamond Crystal salt.

The college issues a buttermaker's certificate to any buttermaker having an average score of 90 or better. To be eligible to the prizes and certificates, five out of six contests during the year must be entered, and at least three contests must be entered in order to be eligible to the special prizes.

A sample of butter consisting of not less than 10 nor more than 20 pounds is sent to the college by prepaid express, is scored, held 10 days, then rescored. A moisture and salt analysis of each sample is made. The first scoring determines the placing of the butter. Definite arrangements as to who will judge the butter have not yet been made, but this will be announced as soon as possible.

A blank is furnished each contestant which is to be filled out and sent to the department, so that we can which the butter is made. For further know the exact conditions under which the butter is made. For further information regarding these contests, address dairy department, Kansas State Agricultural College, Manhattan, Kan.—A. W. Rudwick, Assistant.

Cream Profits That Stay in Your Pocket

Empire Disc

THERE was a time when the first cost of a cream separator was a big factor in deciding which separator a cow owner should buy. But now it is different. Men have found it the best investment to pay a *little more* at the start rather than to be paying the difference constantly afterward in cream profits lost and in repairs necessary. Men have learned that in the

Frictionless Empire

Empire Line
Of Quality Separators

they can get not only the style and size separator they want, but also the one that nets the greatest returns for the money invested for the longest term of years—the one that makes profits that *stay* in their pockets.

Seventeen Cents a Year was the average cost of repairs on all of the hundreds of thousands of Empire Cream separators in use last year. And the majority of these Empire machines have been in use for many years. It's the *time* test and repair cost that tell whether a separator is a paying investment.

Let us also *prove* that Empires turn easiest, are simplest, most sanitary, highest quality and most satisfactory. Write postal now.

Empire Cream Separator Company 1225 Wabash Ave., Dept 1, Chicago, Ill.

The REAL TEST of a Cream Separator is, after all, its *skimming power.* The

United States Cream Separator

holds the World's record for close skimming in 50 consecutive runs, continuing through 30 days, with the milk of 10 breeds of cows, .0138 of one per cent.

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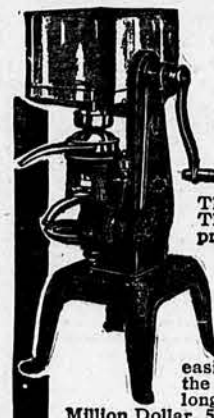

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SENT ON TRIAL. FULLY GUARANTEED. A new, well made, easy running separator for $15.95. Skims hot or cold milk; heavy or light cream. Different from this picture which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Whether dairy is large or small, obtain our handsome free catalog. Address

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All steel. Only 9 parts in engine. Entirely enclosed gears. Pulls on direct line, on up-stroke. Faces in lightest wind. Absolutely self-regulating in any wind. Sold on trial. Write for full description and introductory price.

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The Masterpiece of Timepieces

A Watch
That Takes Longer to Build Than a Great Skyscraper

It sometimes takes a year to make a "South Bend" Watch—six months to cut out, finish and assemble the 150 parts and *another* six months to give the watch the final adjustments and regulation.

That's longer than was required to build the towering Flatiron Building in New York. There are more than 1,500 different operations on every "South Bend" Watch.

Each watch is given *250 inspections* to make sure that those operations were *doubly-carefully* done.

That's why a "South Bend" Watch is a *doubly-good watch.*

But every *good* watch needs "personal adjustment" to the owner by a retail jeweler, for good watches, being sensitive, run differently for different people. Cheap watches are stiff in their action, therefore don't keep time for *anybody.*

Those who ride much over rough roads should have their watches regulated to allow for that, just as those who walk a great deal ought to have their watches adjusted to *that* peculiarity of their living.

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You don't want an inaccurate watch, no matter how little you can get it for.

A "South Bend" Watch costs only a little more than common watches and keeps *perfect* time.

It is an everlasting source of satisfaction and you certainly *want* satisfaction in a watch.

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Frozen in Solid Ice—Keeps Perfect Time

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Ask your dealer to show you the "Studebaker" or the "Polaris"—both are "South Bend" Watches. But first write for our book, "How Good Watches Are Made." It's alive with interesting things about watches. Just ask for the book, on a post card. Address

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The real Martha Washington has the name and the Mayer Trade Mark stamped on the sole. If you can't find a dealer, write to us.

Free—If you will send us the name of a dealer who does not handle Martha Washington Comfort Shoes we will send you free, postpaid, a beautiful picture of Martha Washington, size 15x20.

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HOME CIRCLE

When you're feeling grouchy,
Let the sunshine in;
When you face is feeling hard
Crack it with a grin,
Don't be 'fraid o' wrinkles,
Turn loose with your mirth;
An old face, laughter wrinkled,
Is the sweetest thing on Earth.

Married men do not always live longer than single ones, but they are often so much thinner that they look longer.

When the mosque of St. Sophia in Constantinople was built a thousand years ago the bricks and stones were laid in mortar mixed with a solution of musk. And today the entire building is permeated with a delicate fragrance which is noticeable to visitors when they enter the mosque.

Mark Twain's Advice to Burglars.

Mark Twain's beautiful summer residence on a hill top in Connecticut was entered by two burglars who after a desperate fight were subdued and safely bound and shackled. The "American Review of Reviews" thus reports what Mark Twain said, as follows:

When Mark Twain entered, arrayed in his white flannel suit, he stopped at the table occupied by the two "yeggmen." This was before any of the newspaper men had arrived, and they missed a most characteristic and interesting heart to heart talk with a live burglar. Said the white philosopher "So you're the two young men who called at my house last night and forgot to put your names in my guest book? Now that was a pretty sort of business for you, wasn't it, and a nice way to treat me, after I've been down on the east side working for just such fellows as you, and after I made Bingham take back what he said about the Jews."

"Excuse me , Mr. Clemens," interrupted the battered and wounded prisoner, for the first time showing any interest in the proceedings, "my parents are Jewish."

"Then you're a disgrace to your race."

"Well, I guess I am," replied the burglar.

"Now you two young men," continued Mr. Clemens, "have been up to my house, stealing my tinware, and got pulled in by these Yankees up here. You had much better have stayed in New York, where you have the pull. Don't you see where you're drifting to? They'll send you from here down to Bridgeport jail, and the next thing you know you'll be in the United States senate. There's no other future left open to you."

It was worthy of remark that even the burglar treated Mark Twain with a deference which was the more marked because of the sullen contempt with which the "yeggman" greeted every one else.

The Child, a Habit Forming Animal.

After eighteen, says the late Prof. Wm. James of Harvard, the eminent psychologist, the brain begins to set like a plaster. No absolutely new and uncolored ideas are received by the brain after this. The personal habits are nearly all formed at eighteen. Not that there is any magic about the age eighteen; for some it is seventeen, for others nineteen or twenty; but quite close to these years for most people, the tissues of the body and brain begin to harden; the paths of nervous discharge along the muscles have nearly all been fixed, and the habits of a lifetime have settled down to mark their permanent grooves in the nervous structure.

Youth is the Golden Age for implanting life's best habits. It is the business of society—of parents—of schools, to see to it that the profitable habits are started during this Golden Age, and that the unprofitable ones are not allowed to form. Brain cells are plastic and yield persistent impressions from ten to twenty. They are of course plastic much earlier than this, but less liable to persist in error. Before ten in most children the personality submits more to the control of superior personalities as parents and teachers. Between ten and twenty—the dangerous, swiftly changing adolescent period—the youth assumes new dignities and new emotions. Youth and manhood meet in tumultuous struggle and manhood emerges from the storm and stress, wrecked or triumphant.

If there are any good habits that

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Pure bred Johnson Co. White. I won first for best ten ears white corn, second for single ear, and first for the best thirty ears of any variety at our Jackson Co. Farmers' Institute, and fith for best ten ears in Class B, at Kansas State Corn Show. Write for samples and prices.
JOHN F. BOETTCHER, Orchard Hill Farm, Holton, Kan.

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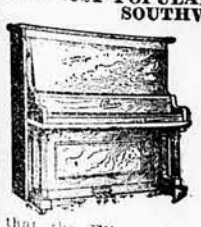

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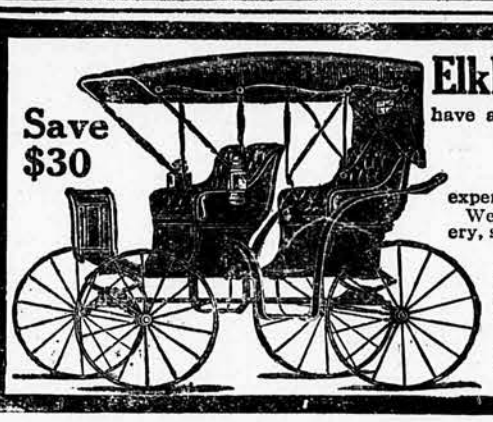

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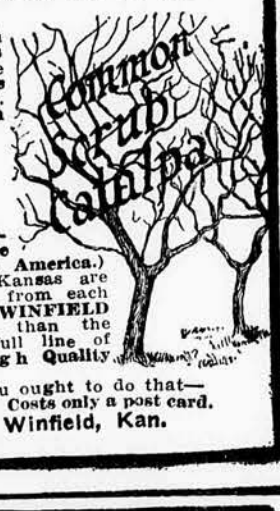

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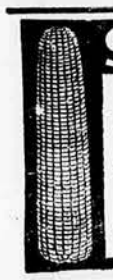

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By FRANCIS LYNDE

"THEY WERE TALKING ABOUT YOU AND BROTHER AND—WHAT DID YOU SAY THIS WAS FOR?"

XVIII.

THE MORNING AFTER.

FORD was awake for all day, and was colloguing with Frisbie about the carrying out of the sumptuary order for the forcible camp-cleaning, when Penfield came with the request that the chief report at once to the president in the Nadia.

"Tell him I'll be there presently," was the answer; and when Penfield went to do it, the interrupted colloquy was resumed.

"You say the camp has already gone dry?" said Ford incredulously.

Frisbie nodded. "Everybody's on the water wagon; here and at all the camps above and below—bars not only closed, but apparently wiped out of existence. I went for old Brian last night as soon as I reached here. He looked at me reproachfully, and said: 'It's you to be always naggin' me about thim whisky dives that I'm forever thryin' to run out, and can't. Go and thry it yourself, Misther Frisbie, an' I'll stand at your back till you're black in the face.' But when I went through the camp, everything was quiet and orderly, and Jack Batters' bar was not only closed—it was gone; vanished without leaving so much as a bad smell behind it."

"And then?" said Ford.

"Then I got out my horse and rode up the creek and through some of the camps on the Copah detour. The star-eyed goddess of reform had evidently landed on that coast, too. Donahue's Hungarians were singing war songs around their camp-fire, as usual, and Contadini's Tuscans were out in full force, guying the night-shift track layers. But there was no bad blood, and no whisky to breed it. You're done up again, Stuart."

"I don't see that," said Ford, who, besides being short on sleep, was rejoicing in the thought that Alicia and the other women of the private-car party would not have to be blind and deaf.

"Don't you? You've been protesting to beat the band about the lawlessness and dissipation of the MacMorrogh camps. Accordingly, Mr. Colbrith comes over here to see for himself: and what will he see? Decency on a monument smiling reproachfully at her unprincipled traducer. MacMorrogh will rub it into you good and hard. Can't you feel the Sunday school atmosphere right here in the headquarters this morning? Look down yonder at the Nadia—wouldn't that soothe you, now?"

Ford looked and the scowl which was coming to be a habit transformed itself into a cynical smile. A hundred or more of the MacMorrogh laborers, hats off and standing at respectful attention, were clustered about the rear platform of the private car, and Mr. Colbrith was addressing them; giving them the presidential benediction, as Frisbie put it irreverently.

"Don't you see how you are going to be hoisted with your own ammunition?" the little man went on spitefully. "What becomes of all your complaints of drunkenness and crime, when Mr. Colbrith can see with his own eyes what truly good people the MacMorroghs are? And what conclusion will he arrive at? There's only one, and it's a long-armed one so far as your reputation is concerned: you are so desperately bent on having your own way that you haven't scrupled to tell lies about those angelic contractors."

"Let up, Dick," said Ford gruffly. "I've got about all I can carry till I catch up on sleep a little. But you're right: this is the place where the fireworks come in. I think I'll go and light the fuses while I'm keyed up to it."

The crowd of laborers had dispersed by the time Ford reached the Nadia, and the president, benign from the reactionary effect of his own early-morning eloquence, was waiting for him.

"Ah; we did reach the front safely, after all, didn't we, Mr. Ford?" was Mr. Colbrith's mildly sarcastic greeting. And then: "Come aboard, sir; we are waiting breakfast for you."

Ford would have declined promptly, if the invitation had been anything less than a command. He had met none of the members of the private-car party save Miss Alicia, and he did not want to meet them, having the true captain-of-industry's horror of mixing business with the social diversions. But with one example of the president's obstinacy fresh in mind, he yielded and climbed obediently to the railed platform. Whatever happened, he should see Alicia again, a privilege never to be too lightly esteemed, whatever it cost.

The social ordeal was not so formidable. The private-car party was made up of the president and his sister-in-law, the president's family physician, Doctor Van Bruce, the doctor's wife, his sister, a maiden lady of no uncertain age, and Alicia. These, with Penfield and Ford, made the eight at table in the open compartment in the Nadia; and Ford, in the seating, was lucky enough to find his place between Miss Van Bruce, who was hard of hearing, and Miss Alicia, who was not. Luckily again, Mr. Colbrith omitted all talk of business, drawing his end of the table into discussion of the effects of the dry altitudes in advanced stages of tuberculosis.

"What a dreadful night you must have had, Mr. Ford," said Alicia, when the tuberculotic subject was well launched at the other end of the table. "Were you on the engine all the time?"

"Most of the time," he confessed. "But that was nothing. It wasn't my first night in the cab, as it won't be the last, by many, I hope."

"Why? Do you like it?"

"Not particularly. But I hope to live a while longer; and while I live I shall doubtless have to ride with the enginemen now and then."

"Was it very bad—last night?" she asked.

"I am afraid you know it was. Could you sleep at all?"

"Oh, yes; I slept very well—after that terrible shaking up we had just before bedtime. What was happening then?"

"Nothing much. We were about to try the old experiment of passing two trains on a single track."

"Mercy!" she exclaimed.

It was safely retrospective now, and Ford could smile at her belated shock.

"Were the others alarmed?" he asked.

"Mrs. Van Bruce and Aunt Hetty were. But Uncle Sidney fairly corus-

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cated. He said that an engineer who would make such a stop as that ought to be discharged."

"Hector was willing to quit," laughed Ford. "He grumbled for a full hour afterward about the wrenching he had given the 1012. You see he might have taken about six feet more for the stop, if he'd only known it."

Miss Alicia said "Mercy!" again. "Were we as near as that to a collision?" she asked, in a hushed whisper.

"We were, indeed. The freight was supposed to be on a siding—broken down. The crew tinkered things up some way, and the train proceeded. Luckily, the freight engineer saw our electric headlight farther than we could see his oil lamp, and the track happened to be measurably straight."

Miss Adair was silent for a little time, waiting for the lapsed tuberculotic discussion to revive. When it was once more in full swing, she asked quickly:

"What is the programme for today? Must we all stay in the car as you intimated yesterday?"

Ford glanced across the table to make sure that Jenfield was not eavesdropping.

"It will not be necessary. Your coming—or the president's—has reformed things wonderfully. Frisbie says—but never mind what he says: the miracle has been wrought."

He said it with such an evident air of dejection that she wondered. And with Miss Alicia Adair the step from wonderment to investigation was always short.

"You say it as if you were sorry," she said. "Are you?"

"Oh, no; I'm glad — for your sake. But I wonder if you could understand if I say that it will make it a thousand times harder for me?"

"I can understand when I'm told," she retorted.

The table-for-eight was no place for confidences; and Ford knew Penfield's weakness for soaking up information. Yet he took the risk.

"You remember what I hinted at, yesterday," he said in low tones; "about the rough house we have been having in the camps. It hasn't stopped short of murder. I objected to the MacMorroghs before the contract was given to them; and since, I have fought the lawlessness as I could. Now your uncle comes over here and doesn't find any lawlessness. What is the inference?"

"That you have been—" she took him up quickly, and there was a swift indignation in the blue eyes.

"—lying to gain a personal end," he finished for her.

Penfield had been apparently listening avidly to the president's praise of the dry altitudes as a sure cure for consumption, but now he had his face in his plate. Ford devoted himself for the moment to the deaf Miss Van Bruce and when he turned back to Alicia he was telegraphing with his eyes for discretion. She understood, and the low-toned tete-a-tete was not resumed. Later, when they had a moment together in the dispersion from the breakfast table, he tried to apologize for what he was pleased to call his "playing of the baby act." But she reassured him in a low-spoken word.

"Brother told me—I know more than you give me credit for, Mr. Ford. Mr. North doesn't like you—he would be glad if you would resign. You must not resign!"

The others, personally conducted by Mr. Colbrith, were crowding to the rear platform for an after-breakfast view of the headquarters camp. Ford and Alicia followed, but without haste.

"You have chanced upon the word, Miss Adair," Ford was saying. "I decided last night that I should resign."

"No," she objected.

"Yes; I must. Sometime I may tell you why."

"I say you must not. That was the last word in brother's letter; and he wished me to repeat it to you," she insisted.

"Where is your brother?" he asked.

"He was in London when he wrote."

"He has thrown up his hand." Ford was pessimistic again.

Miss Adair looked about her desparingly for some means of prolonging the whispered confidence. Penfield, deferentially in the rear of the platform group, was never safely out of earshot.

"I want to see the engine that so nearly plunged us into a collision last night," she said aloud; and Penfield's visible ear betrayed the listening mind.

Ford took his cue promptly. "We can go out the other way," he said; and the secretary pro tempore had no excuse for following.

They found the cab of the 1012 deserted, with the steam in the huge boiler singing softly at the behest of the banked fire. Miss Adair lost her curiosity as soon as Ford had lifted her to the foot-plate.

"Now you are to tell me all about it —quickly," she commanded. "Uncle Sidney will be calling for you as soon as he misses you. Why are you so foolish as to talk about resigning? Don't you see what they will say then? —that you were afraid?"

Ford was leaning against the centered reversing lever, and his face was gloomy again.

"Possibly I am afraid," he suggested.

"You should be more afraid of dishonor than of—of the other things. Do you suppose Mr. North will be content with your resignation now?"

Ford looked up quickly. Here was a new revelation—an unsuspected facet of the precious gem. He could hardly believe that this steady-voiced, far-seeing young woman was the insouciant, school-girlish—though none the less lovable—young person with whom he had tramped to the wind-swept summit of Plug Pass in the golden heart of the yesterday.

"You mean—?" he began.

"I mean that you will be discredited; disgraced if possible. Are you sure you haven't been doing anything over here that you wouldn't want Uncle Sidney to find out?"

"Not consciously, you may be sure," he asserted unhesitatingly.

"Think: think hard," she urged. "Is there nothing at all?"

He could not help smiling lovingly at her scarce-concealed anxiety—though it was merely the anxiety of a noble soul unwilling to stand by and see injustice done.

"My methods never get very far underground," he averred. "Not far enough for my own safety, Frisbie says. If I had been keeping a diary, I think I should be quite willing to let Mr. Colbrith read it—or print it, if he cared to."

"And yet there is something," she asserted, and the straight brows went together in a little frown of perplexity. "You don't ask me how I know: I'm going to tell you, Mr. Ford—though it's rather shameful. Three days ago, while we were in Denver, Mr. North came down to the car to see Uncle Sidney."

"Yes?" he encouraged.

"They were closeted in Uncle Sidney's state room for a long time," she went on. "I—I was walking with Miss Van Bruce, up and down the station platform beside the Nadia. Uncle Sidney had told me not to go very far away because we were likely to start at any moment. The—car windows were open—"

Her embarrassment was growing painfully apparent, and Ford came to the rescue.

"You were not even constructively to blame," he hastened to say. "They must surely have seen you passing and repassing, and if they wished for privacy they might have closed the windows."

"I didn't hear much: only a word or two, now and then. They were talking about you and brother; and—" She stopped short and laid her bare hand on the throttle-lever of the big engine: "What did you say this was for?" she asked ingenuously.

Ford's up-glance of surprise was answered by a glimpse of Penfield sauntering past on the other side of the track. She could not have seen, but she had doubtless heard his footsteps on the gravel.

"It's the throttle," said Ford, answering her question. And then: "Please go on: he is out of hearing."

"They were speaking of you and brother; and—and of me. I can't repeat a single sentence entire, but I know Mr. North was accusing you in some way, and apparently implicating me. Perhaps I listened in self-defense. Do you think I did, Mr. Ford?"

"You certainly had a good right to," said Ford, who would have sworn in her behalf that the morally black was spotless white. "But how could you be implicated?"

"That was what puzzled me then—and it is puzzling me still. They said—or rather Mr. North said—that you—that you had bought me!"

Ford did not say that he would like to buy, beg, borrow or steal any kind of right to call her his own, but if his lips did not form the words they were lying at the bottom of the steady gray eyes for her to take or leave as she chose.

"I am sure you couldn't have heard that part of it quite straight," he said, almost regretfully.

"But I did, because it was repeated. Mr. North insisted that you had bought me; and I didn't like the way in which he said it, either. He called me 'the little Alicia'."

"What!" said Ford; and then a flood of light burst in upon at least one of the dark places. "It's only a mine," he said sheepishly. "And I did buy it, or half of it."

She was regarding him accusingly now.

"Did you — did you name it?" she asked, and there was the merest breath of frost in the air.

He was glad to be able to tell the truth without flinching.

"No; it is one of the earliest of the Copah prospects, and I suppose the discoverer named it. I am willing to defend his choice, though. He couldn't have found a prettier name."

She went back to the matter in hand with womanly swiftness. "But the mine; you had a right to buy it, didn't you?"

"I should suppose so. I paid for it with my own money, anyway."

"Then why should Mr. North use it as an argument against you in speaking to Uncle Sidney? He did that—I am sure he did that."

"Now the water has grown too deep for me," said Ford. "Why, North, himself, is interested in Copah, openly. He owns half a dozen claims."

"Near yours?" she queried.

Ford stopped to consider. "To tell the truth, I don't know where mine is," he confessed. "I bought it as the school boys trade picket knives—sight unseen. You wouldn't belive it of a grown man, would you?"

"What made you buy it at all?"

Again he told the simple truth—and tried not to flinch.

"You won't mind if I say that the name attracted me? I thought a mine, or anything, that bore your name, ought to be good and—and desirable. And it is a good mine; or it will be, by and by. Some morning I shall wake up and find myself rich. At least that is what my partner, Grigsby, assures me; and I believe him when I happen to remember it."

She neither approved nor disapproved. When she spoke, it was of the present necessity. "We must go back to the others now," she said. "Or at least I must. Do you know what is to be done today?"

Ford spread his hands.

"Your uncle will set the pace. I wouldn't venture a guess, after last night."

He was handing her down from the engine step and she went back in a word to the former contention.

"You haven't promised me yet that you will not resign under fire — you are under fire, you know."

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"Am I?"

"Brother thinks you are."

Once more he took the possimistic view.

"Your brother isn't losing any sleep over the Pacific Southwestern situation. You said he was in England, didn't you?"

"I said he was in London when he wrote."

"London is a long way off: and what I do must be done to-day or to-morrow. Mr. North will force the fighting, now that your uncle is on the ground, and your brother safely on the opposite side of the earth. And I can't afford to fight this time, Miss Alicia."

"Why can't you?"

They were walking slowly back toward the Nadia when he said: "Because a victory would cost me more than I am willing to pay. There is no longer room in this service for Mr. North and me. If we come to blows one of us will have to go."

"I can understand that," she said quietly.

"And to obliterate Mr. North, I shall be obliged to efface—your uncle.

She caught her breath.

"Mr. Ford, you have intimated that Mr. North isn't an honest man. Do you ask me to believe that Uncle Sidney is his accomplice?"

"He is not, knowingly. But he will stand or fall with the man he has made. I should have to ride him down before I could get at North."

Her lips curled and the straight-browed little frown came again. "There is no such thing as mercy in business, is there, Mr. Ford? My uncle is an old man and his presidency means more to him—"

"I understand that perfectly," said Ford soberly. "That is why I prefer to step down and out ond let some other man have the glory of finishing the extension."

She looked up quickly.

"Would you do that for Uncle Sidney? He hasn't been very lenient with you, has he?"

Ford ignored the query.

"He is your uncle, Miss Alicia; and I'd do it for your sake or not at all."

They had reached the steps of the private car, and Frisbie was waiting with evident impatience for a word with Ford. Miss Adair's eyes signaled emotion, and Ford thought it was resentment. But her parting word was not resentful; it was merely a repetition.

"Go to Mr. Frisbie," she said from the step; "he is waiting for you." And then: "Remember; whatever happens, you must not resign—not even if Uncle Sidney asks you to."

Frisbie's information, given after Miss Adair had gone in, was rather mystifying. Young Benson, who was just in from the grade work beyond Copah, brought word of a party of strange engineers running lines on the opposite side of the river from the rejected S. L. & W. short-cut through the canyon of shale slides. Questioned by Benson, they had told what Frisbie believed to be a fairy tale. The chief of the party claimed to be the newly-elected county surveyor from Copah, runing the lines for some mining property recently filed for entry. Benson had not been over curious; but he was observant enough to note that the tale was a misfit in three important particulars. He saw no locating stakes, such as a prospector always sets up conspicuously to mark his claim; and there were no signs of the precious metal, and no holes to indicate an attempt to find it.

"What's your guess, Dick?" said Ford tersely.

The assistant shook his head.

"I haven't any coming to me. But I don't like mysteries."

"Where was this party?"

"About a mile and a half below here. It was going out toward Copah when Jack met it—its work, whatever it was, all done, apparently."

It was one of Frisbie's gifts to be suspicious; but Ford was lacking on that side.

"It's barely possible that the man was telling the truth, in spite of Benson's failure to find any prospect holes," he remarked. "We'll let it go at that until we know something different. It wouldn't be a Transcontinental party, this far from home, and we haven't anybody else to fear."

Frisbie dropped the subject as one of the abstractions and took up the concrete.

"What are the orders for to-day?" he asked.

"I don't know. I'm waiting for Mr. Colbrith to say."

"There are two buckboard teams here, in the MacMorrogh stables—came over from Copah last night. What are they for?"

"I don't know. Another of the president's little surprises, I suppose. We'll know when he sends for me."

The expected summons came at that precise moment, transmitted by Penfield. Mr. Colbrith would like to see Mr. Ford in his private state-room in the Nadia. The secretary had a sheaf of telegrams in his hand, and wished to be directed to the wire office. Frisbie took him in charge, and Ford went to obey the summons.

The president was sitting very erect in his swing chair when the young engineer let himself into the box-like compartment, and his voice was at its thinnest when he said: "Be seated, Mr. Ford."

Ford sat down on the divan couch, and the president plunged at once into business.

"Some time ago, you advised me, as chairman of the executive committee, that you had decided upon a change of route, Mr. Ford," he began raspingly. "What were you reasons for making the change?"

"I stated them in my letter of advice," said Ford; "economy in construction and greater safety in operating, as against a slight increase in the length of the line."

"Twelve miles, I believe you said; that is a very considerable increase, I should say. The great eastern companies are spending millions of dollars, Mr. Ford, to shorten their lines by half-mile cut-offs."

Ford had his reply ready.

"The conditions are entirely different. It will be many years before a fast through service is either practicable or profitable over the extension; and when it comes to that, we shall still have the short line from Denver to Green Butte by forty-two miles. But I explained all this at the time, Mr. Colbrith, and I understood that I had the executive committees approval of the changed route."

"Qualifiedly, Mr. Ford; only qualifiedly. Yet you have gone ahead in your usual impetuous way, abandoning the short line through the canyon and building the detour. Your motive for haste must have been a very strong one—very strong."

"It was. I am not here to kill time."

"So it appears. But I am here, Mr. Ford, to consider carefully, and to investigate. We shall go first over this route you have abandoned. I wish to see for myself the difficulties you have so paintstakingly described."

Ford shrugged.

"I'm quite at your service, of course. But you will find it a hard trip. Indeed, if we drive, we shall have to cross the river and take the other side. The canyon on this side is impassable in places for a man on foot."

"I provided for that," said the president, letting his ferrety eyes rest for a moment upon the reluctant one. "You will find two buckboards with their drivers at the MacMorrogh headquarters. Be good enough to order them around, and we'll start at once. No; no protests, Mr. Ford. My responsibilities are not to be shirked. Penfield will drive with me, and you may take Mr. Frisbie with you, if you see fit. I understand he is implicated with you in this matter."

Ford bridled angrily at the word.

"There is no implication about it, Mr. Colbrith. You continually refer to it as if it were a crime."

"Ah! the word is yours, Mr. Ford. We shall see—we shall see. That is all, for the present."

Ford was raging when he found Frisbie and gave the order for the vehicles.

"He turned me out of his office state-room as if I had been a messenger boy or tramp! Get those teams out, Dick, and give me a chance to cool down. If my job is to last through this day—"

Frisbie laughed. "Go and dip your head in the Pannikin while you wait. Or, better still, chew on this. It's a cipher message that Durgin has just been sending for Penfield to Vice-President North. Wouldn't that make you weep and howl?"

Ford was still puzzling over the meaningless code words when he took his seat in the second of the two buckboards with Frisbie. The first assistant waited until the horses had splashed through the shallows of the river crossing; waited further until the president's vehicle had gained a little start. Then he said: "Is it possible that you had Penfield for a spy on you as long as you did without working out his cipher code? Good Lord! I got that down before I did anything else—last spring when you left me to run the Plug Mountain. Here's what he says to North"—taking the code message and translating: "'Ford suspects something. Don't know how much. He and Miss Adair are putting their heads together. She has authority of some kind from her brother. President goes with Ford to examine abandoned route, as arranged. Will wire result later.'"

"'As arranged,'" was Ford's wrathful comment. "Apparently, everything is arranged for us. Some day, Dick, I'll lose my temper, tie Penfield in a hard knot and throw him into the river! It's like a chapter out of Lucretia Borgia!"

(Continued next week.)

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HORTICULTURE

Secretary Walter Wellhouse of the State Horticultural Society reports that there are now growing in Kansas 7,216,820 apple trees of which 5,933,472 are in bearing; 387,929 pear with 242,715 in bearing; 4,929,688 peach with 4,166,333 in bearing; 732,102 plum with 566,276 in bearing and 910,806 cherry with 637,062 in bearing. While this does not show as many fruit trees in bearing as we should probably like to have, it does show a goodly number "coming on."

Most people have read about silage and have become convinced that it may be a good thing, but they are not convinced hard enough. They dread the cost of installation of a silo and cutting machinery. This cost is not a cost at all. It is simply a dividend paying investment, and if any further conviction is necessary, go to the neighbor who has ensilage and let his cow answer your question as to whether it is worth while. The cow is the ultimate consumer, and determines the value of ensilage.

Strawberries in Nebraska.

During a trip to Brownville, Neb., Mr. J. S. Furnas called my attention to one of his strawberry plantations and to the large profit he has secured from this season's crop. This particular strawberry plantation covers three-fourths of an acre which lies on a very steep hillside facing the north. After charging the plat with the cost of planting and the expense of cultivation Mr. Furnas finds he has been repaid the cost of planting, cultivation, picking, packing, packages and marketing, and has remaining a net profit of $720. It should be stated in this connection that of this net profit, $120 was from the sale of the plants.

The loess hills along the borders of the Missouri river seem peculiarly well suited to the profitable culture of the various small fruits. The loess soil in these sharp, rough hills is very fertile and peculiarly suited to fruit production. Plantations of black-cap raspberries and of the red raspberries were very thrifty, the plants remarkably well grown and the profits apparently all that could reasonably be desired.—H. F. Stevens, Crete, Neb.

Dry Farming in Western Nebraska.

Daniel Stauffer homesteaded near Harrisburg in Banner county, Neb., about twenty miles from the Wyoming line on the elevated lands of western Nebraska. He was a thorough believer in Campbell's teachings regarding the conservation of soil moisture and the importance of suitable cultivation. He purchased one of Mr. Campbell's soil packers, had machinery for successful cultivation and felt that he was equipped with suitable machinery, and that by following the teachings of Mr. Campbell he could grow farm crops in that district. In addition to the cultivation of farm crops suited to that region and the handling of some stock, he planted an orchard of some hundreds of apple trees and about three hundred cherry trees, his idea being to grow fruit in commercial quantities.

When I was last through there some years ago the cherry trees had attained large size, had been in bearing some years and he found it entirely practicable to grow cherries, plums and small fruits. The apple trees were not yet in bearing. Mr. Stauffer sold a considerable portion of his fruit in the towns twenty miles away, selling cherries at from 15 to 20 cents a quart.

The Stauffer orchard successfully demonstrates the fact that it is possible to conserve a sufficient amount of moisture to successfully grow fruit on lands not irrigated in far western Nebraska.

In the same neighborhood there are yet standing two groves which the writer planted in the old timber claim period. These two groves have been protected from fires and partly from live stock and are yet standing, showing that it is possible to plant and grow forest trees in the same district, and that they can endure a great amount of neglect.—E. F. Stephens, Crete, Neb.

Planting and Caring for Trees.

When to plant fruit trees: While they are dormant; while the ground is in a workable condition; late in the fall after growth has stopped, or early in the spring before it has begun.

Where? In well drained soil.

How? Dig an ample hole; spread the roots out in their natural position, and pack fine earth around them. It is handy to separate the clods from the fine soil in digging.

There is always a balance between the roots and branches of a tree, so if many roots have been cut off in digging the tree from the nursery, a corresponding amount of the top must come off. If trees are planted in the fall some precaution should be made against their being heaved out of the ground by alternate freezing and thawing. This can be done by spreading a thick layer of straw or manure around the tree.

There are four essential points in the care of fruit trees. They are: 1. Tillage. 2. Fertilization. 3 .Pruning. 4. Protection from enemies.

Tillage is just as necessary in tree raising as in corn raising, and for the same reason: To avoid the competition of other plants, to conserve moisture and to render plant food available.

Intelligent pruning is also necessary to raising fruit. Each bud on a tree is capable of giving rise to a branch, and if every branch if allowed to grow, the tree will become too dense. We must thin out the branches in the tree tops or we will have little fruit. It takes moisture to develop an apple and sunlight to color it; so the foliage must not be too thick. Pruning is also employed to make the tree assume the desired shape. It should also distribute the large branches equidistantly, as nearly as possible. It is always best to grow a good strong branch on the southwest side of the tree, where the hot suns and strong winds come from.

In pruning, we should cut the limb in such a way that it will heal quickly. To do this the limb should always be cut as close to the body as possible, and parallel with it. A saw should be used, and the wound must be coated over with white paint or something similar, to prevent weathering, and infection from bacteria or fungus growths. Another important thing is to keep trimming off the ends of the limbs on young trees.

There are three kinds of enemies that trees must be protected from. The first of these includes rabbits, mice, etc. A tall piece of heavy paper tied around the base of the young tree, or a piece of wire screening will settle this matter. The second class of enemies contains the insects, of which the scale insects are the most dangerous. The scale insect can be controlled by spraying with a lime-sulphur wash and the chewing insects by spraying with Paris green. The third class of enemies consists of fungus diseases. These can be controlled by spraying with Bordeaux mixture, which is composed as follows: 4 pounds copper culphate, 4 pounds lime, 50 pounds water.—John W. Lloyd.

If you ever catch yourself boasting that you are descended from famous ancestors don't fail to remember that it was a descent, all right. Be proud of what your father did, but make his spirit proud by what you do.

That biblical saying about the camel going through the eye of a needle has nothing "on" the job of trying to make a hog go back through the same hole he came out of.

Hogs paid Ozark farmers 200% profit last fall —

and the market price wasn't high, either. $7.50 cwt was offered last fall—50% lower than the record price of last spring. Yet Ozark farmers more than doubled their money even at the lower price. Mighty few farmers in other sections made that much profit—simply because it cost them *so much more* to *raise* hogs.

In the Ozarks you can fatten pigs for 2½ to 3½c per pound, and in just as quick time as with the much more expensive corn ration, by feeding them the rich clover, cowpeas and alfalfa, etc., that grow so well there.

The *natural* conditions for profitable stock raising of all kinds in the Ozarks are *away* ahead of those in most sections of this country—yet land in the Ozarks today can be had for $10 to $25 per acre. Doesn't that spell "opportunity" to you?

Take the matter of weather, for instance. The Ozark winters are never so cold nor the summers so warm that expensive shelters are required to protect stock. *Seventy five per cent* of all the stock in the Ozarks are fattened practically without shelter or trough feeding. The Ozarks thus have a wonderful advantage over those parts of the country where animals must be wholly supported for half the year on crops grown the other half. You can easily measure what a big difference this would make in your *net* profits.

This mild climate in the Ozarks also affords you more working days and a longer growing season. The plow can be kept going practically *every* month. Thus you can prepare the soil without haste and at the *least* expense—your work is *evenly* distributed over the year. You are not compelled to *overwork* yourself some months, and have little or no money-making work on hand at other times.

All these things *count*. With so many ways to *reduce* your expenses and so many ways to *increase* your income, it is easy to understand why a small farm in the Ozarks pays better than a large one elsewhere.

Combine stock raising with a small orchard, garden and berry patch, some chickens, etc., and you have a profit-producing place in the Ozarks that will equal the profits of a *far larger* grain or general farm in other sections.

The State Agricultural College of the University of Missouri, at Columbia, under Dean F. B. Mumford, maintains a special department, to analyze soils. This department will—free of charge—gladly analyze the soil of any place in the Ozarks that you may choose, and advise you as to just what crops it will grow best.

I feel so sure that a *smaller* investment in the Ozarks will yield you a greater net profit, with less work, than you can get where you now are, that I want you to read our splendid, illustrated free books of common-sense facts. The Frisco hasn't an acre to sell, but is interested in letting farmers know what splendid advantages the Ozark country offers. I am *sure* you will find the facts I can give you *more* than worth while. Please write today.

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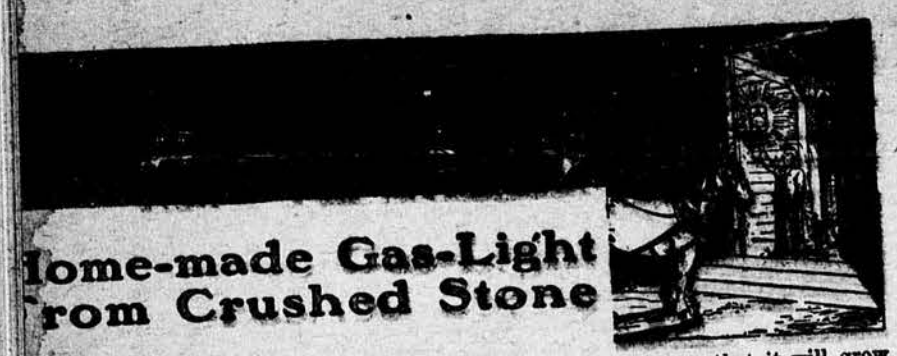
Land is not soil. Land is the container of soil and supplies a part of the elements of which it is made.

Every time the kitchen steps squeak it reflects upon your character. Get hammer, get nails, get busy.



Home-made Gas-Light From Crushed Stone

TWENTY years ago the oil lamp had already been driven out of the city into the country home where gas did not follow—so we thought.

In those days we would have laughed at the idea of a country home lighted with gaslight.

But like the telephone and free mail delivery gaslight has finally left the city to become a common rural convenience.

In the year 1911, the up-to-date villager or farmer not only lives in a gas-lighted house, same as his city cousin, but when he drives home on a cold, wet night he actually lights his barn, his barnyard or porch on his house with this gas-light by simply turning the "ignition" button on a post or wall.

* * *

And this change seems quite like magic when you consider that this rural gaslight is home-made— made by the family itself right on the premises.

Take fifteen minutes once a month to make all that can be used in a large house.

The magic is all in the curious manufactured stone known commercially as "Union Carbide."

This wonderful gas producing substance, "Union Carbide," looks and feels just like crushed granite. For country home use it is packed and shipped from warehouses located all over the United States in sheet steel cans containing 100 pounds.

Union Carbide won't burn, can't explode, and will keep in the original package for years in any climate. For this reason it is safer to handle and store about the premises than coal.

* * *

All that is necessary to make "Union Carbide" give up its gas is to mix it with plain water—the gas, which is then instantly generated, is genuine Acetylene.

When piped to handsome brass chandeliers and fixtures Acetylene burns with an intensely brilliant, stiff flame, that the wind can't affect.

This flame makes light so white in color that it is commonly called "Artificial Sunlight."

Experiments conducted by Cornell University have proven that it will grow plants the same as sunlight itself.

Physicians recommend Acetylene as a germicide and a remedy for eyestrain, and it is used as an illuminant in fifty-four hospitals in New York City alone.

Then, too, Acetylene is so pure that you might blow out the light and sleep all night in a room with the burner open without any injurious effects whatever.

On account of its being burned in permanent brass fixtures attached to walls and ceilings, Acetylene is much safer than smoky, smelly oil lamps, which can easily be tipped over.

For this reason the Engineers of the National Board of Insurance Underwriters called Acetylene safer than any illuminant it commonly displaces.

In addition to all these advantages, Acetylene light is inexpensive.

An Acetylene light of 24-candle power costs only about 4 cents for ten hours' lighting, while for the same number of hours regular oil lamps of equal volume cost about 6 cents in kerosene, chimneys and wicks on the average.

* * *

Consider this carefully and you will hardly wonder at the fact that there are today no less than 185,000 town and country homes lighted with home-made Acetylene, made from "Union Carbide."

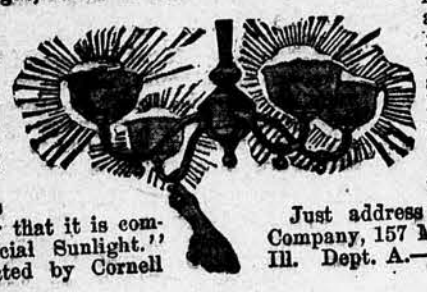
Once a month some member of the family must dump a few pounds of Union Carbide in a small tank-like machine, which usually sets in one corner of the basement.

This little tank-like machine is automatic—it does all the work—it makes no gas until the burners are lighted and stops making gas when the burners are shut off.

The lights located in every room in your house, on your porches, in your horse and cow barns, or barnyards and chicken yards if you like, will all be ready to turn on with a twist of the wrist or a touch of the button at any time of the day or night.

No city home can be as brilliantly or as beautifully illuminated as any one of these 185,000 homes now using Acetylene.

* * *



If you want to be up-to-date, enjoy modern conveniences, and keep the young folks at home, write us how many rooms and buildings you have. We will send you free an intensely interesting lot of facts, figures and booklets.

Just address Union Carbide Sales Company, 157 Michigan Ave., Chicago, Ill. Dept. A.—16

SHOW CORN FOR SEED

By J. M. GILMAN

"In the multitude of counsellors there is wisdom," but "When the doctors disagree who shall decide?"

On the question of what constitutes the most valuable type of corn to produce a high yield, the opinions of the "doctors" as expressed in the bulletins from the various experiment stations, are so different that it is small wonder that a "laxman" should be bewildered.

Some years ago on changing occupations from school supervision to grain breeding, I wished to get the latest and best word on matters and methods of agriculture, and so secured all available literature from the Department of Agriculture and from the state experiment stations. These reports told of an immense amount of experimental work, but the conclusions ranged from slightly variant to exactly opposite. This led me to believe that the ultimate truth had not yet been reached in things agricultural any more than in some other lines, and it seemed to me that unbiased experimental work would be of value, at least in helping to know what line of work would secure the best results for me in my particular locality; and so for five years experimental work has been carried on. At first this was simply an ear-to-row test but the scope has been constantly widened.

To tell in detail of these experiments would take too much time so I shall tell the results of those conducted to determine the highest yielding type of corn.

For five successive years the highest producing ear has been an ear of show type.

Ears that yielded almost as well, were found each year that were not of show type.

The progeny of show ears, both high yielding and otherwise, must be carefully selected or culled to maintain the type. The high yielding trait is transmitted. The high yielding ears of all types have been of medium size or under.

The large ears, especially the ears of large circumference, have been disappointing in yield. The unusually large ears nearly always rank low—never at the top, sometimes at the bottom.

The conclusion reached is that there is very little if any relation between type and yield, except where these qualities have been combined by constant selection.

There are certain strains, some of show type and some not, that will outyield by several bushels per acre the average strain of the same variety, under exactly the same conditions.

The highest yielding strains and varieties must be determined for each locality by actual competition under equal conditions.

Does it pay to breed for a high-yielding type of show corn? Emphatically yes. Beauty is of itself and in itself a commercial asset whether in cattle, hogs or corn. In addition the points that go to make a show corn are the points required to make a large per cent of shelled corn, so that when seeming of equal yield the show type proves higher yielding when reduced to shelled corn.

In view of results obtained we believe it will be highly profitable to perpetuate and develop strains which combine show type with high yield; but of questionable value to breed for show type without relation to yield.

PLANT GOOD SEED

The time of year is now drawing near when most farmers will be preparing for spring work and considering their seed which is to produce their 1911 crop. And I am a strong believer that the seed we plant is about as important for producing good yield and quality as is the fertility of the soil, although unless we have the proper food in the soil for the plant to live upon it cannot make a good growth and produce grain abundantly. Last spring when most farmers were planting corn I happened to be doing a considerable bit of running around among my neighbors and of course was interested in the production of good corn and would generally find the farmer in the field planting his corn. I examined his seed and I never was so surprised as to find that so many farmers were planting what might be called very poor seed, but of course it sometimes happens that we cannot always plant just the kind of seed we would like to. I believe that if more of the farmers would pay a little more attention to the harvesting of their grain, and take a little better care of a certain part of a field of grain or corn which they expect to save for seed that they would soon be able to notice an improvement in quality as well as producing more grain per acre. I think that the best time of year to gather seed corn is in the early fall, when the corn is being gathered. I always fasten a box on the side of the wagon, and when I find a good ear and it has grown on the proper kind of a stalk it goes into the small box on the side of the wagon. After I am through gathering I take and sort this corn into different grades. Those with nice straight rows and well filled go as first grade; those not so straight rowed and not so well filled go in as second grade, etc., and when I do my planting I plant each grade to itself, and by so doing I believe I am improving my corn. When fall comes again I first gather the corn where I planted my best seed, as I generally find my best seed in this portion of the field and also get it out before frost comes to injure its germ. By so gathering my seed corn it always gives a good germination. I also plant about 1½ to 2 acres ear to row and am able to find several ears that produce much greater quantity of better corn than do other ears. Am sending you a picture of some of my seed corn. This same corn took first and second premium at Manhattan during institute week this year for western Kansas.—F. A. Schroeder, Lebanon, Kan.

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Along the Kansas City Southern Railway in Southwest Missouri and Western Arkansas there are many idle acres of the most fertile and productive land in the United States. It is being divided into 5, 10 and 20 acre farms, or larger, and sold on easy payments. It is exceptionally well adapted to fruit, truck and poultry raising. Strawberries apples and poultry are the big money makers and many men who have located on these lands have made as high as $450 per acre. $200 to $400 per acre is common. You can do the same and if you are industrious you can occupy your time at all seasons and have a product to sell every month in the year. You can buy these lands at from $20 to $25 per acre. Drop me a line and I will suggest what I believe to be the best locations at reasonable prices. Write me today.

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THE CORN GRADER

Grading corn is something of an art on the part of the farmer, and it is practiced by most of our enterprising and up-to-date corn growers.

When the ears of seed corn are sound, it is not as necessary to butt and tip if the grader is used. It is best, however, to first butt and tip, then shell and run through a first-class grader. In this way even sized kernels are obtained and the corn planter can make a more perfect crop, thus insuring a more even stand.

There are a number of different kinds of graders on the market. It seems, however, that the best of them will require care in operating. The great trouble is to keep the kernels from filling and sticking in the holes of the screen. A small hand screen attached to a box frame similar to the sand screen gives good satisfaction for small quantities, but where much corn is to be graded a larger and more expensive grader is essential. A shaker is arranged on the graders which operates with a sudder jerk to throw the kernels out of the screen when they are about to stick. The perforated sylinder type of grader seems to give fair satisfaction and with other conditions the same will not need cleaning as often as the flat screen type, as kernels that stick in the holes in the bottom of the cylinder will drop out as it turns up over and inverts them.

The real value of the corn grader has not been determined experimentally but it goes without question that the farmer who grades his seed carefully produces more and even better corn than he otherwise would.—C. F. Chase, Assistant in Farm Mechanics, Agronomy Department, Kansas State Agricultural College.

FRUIT AS FOOD

By PROFESSOR LAZENBY

I am a very zealous advocate whenever I have the chance to talk on the value of fruit as a good product. There are just a few things in this world that are absolutely necessary if we maintain a normal measure of health and strength, and one of these is pure, good air; another is nutritious food, and of course water to drink; another is rest, and another some form of physical exercise. It doesn't make so much difference what it is, but I think to be healthy we have to take some physical exercise. Another thing that we must have is the prompt removal of the wastes of the body. Now if we will observe carefully these things—that we always have good air, nutritious food, good rest, have exercise, and if we attend to the removal of all the wastes of the body, if we start with good constitutions, we have good health. I place good air first, because I really think it is the most important thing of all. Of course you know that we can live without food and sleep for a good length of time; but we must have air all the time, and therefore it is the most important thing. We are satisfied with three meals a day, and they meet all of the ordinary demands of the stomach. But just think of the demands of the lungs. They require twenty thousand meals a day at intervals of a few seconds of time, for every breath we take is a meal. Now if we are deprived of a few of these meals life goes out; so that good air is very essential.

We have, as you know, a great variety of fruit, and fruit varies much in size, color, shape, and so on. And yet all the fruits have a tendency to the same characteristics; the same qualities are found in all fruits as far as their food value is concerned.

In the first place, fruit of all kinds contains a great deal of water. That water we sometimes call the juice; but fruit juice is a little more than water, although it is made up of probably 90 per cent of water, and perhaps more than that. For instance, that juice contains all of the sugar, and this is an important element in fruit. As I have said, the water comprises from 80 to 90 per cent of the fruit, and then we have usually from 5 to 10 per cent of sugar in fruit. Now this sugar is always in solution, always in the juice of the fruit, and never found as sugar is found in other things. A good, well-developed apple contains on an average about 8 per cent of sugar. It is a good kind of food, but we need a certain amount of other things. We use a great deal of sugar in one form or another, but sugar that comes in the fruit is perhaps as wholesome as any that we get.

In addition to sugar we have a certain amount of acid in all fruits. The percentage is not so large as the sugar, for it only comprises from 1 to 3 per cent. One cannot tell by an apple being sour whether it has a large amount of acid or not, for that depends upon the proportion between the sugar and the acid. Some apples that seem sweet to the taste have less sugar in them than apples that seem sour. The acid and sugar largely make the quality of the fruit.

Then there are oils that give the fruit their characteristic flavor. We know that we like some fruits, and we like them mainly on account of their proportion of sugar and acids; and then we like the characteristic oil to give the flavor, for the flavor does not come from the sugar and acid, but from the characteristic oil of that particular kind. When we have these things we have about all that we can call quality and richness in fruit. Perhaps this will be better understood if we use the familiar lemon, which contains a large amount of acid, for illustration. We put a little lemon-juice in a glass of water and add a little sugar, and all of us know that a very small amount of juice will not improve the water very much; but if we put in more of the juice and the water is good to begin with the result will be very satisfactory. When the proportions of the acid and the sugar are right the resulting lemonade is rich. Now that is just what we mean by richness in fruits — the proportion of sugar and acid that suits our taste.

We have in fruits, also, a small amount of nitrogenous substances like the white of an egg, and exactly equivalent to that in food value. The proportion is very small, there being not more than 1 per cent in most of our fruits; but of course there is sometimes more and sometimes less. To be perfectly healthy we must have a considerable amount of these proteids, which we get in meats and breads, and foods of this character. Whatever we get from the fruit does us just as much good as from any other source, but we cannot get all that we need from fruit, and therefore cannot live on fruit alone, for there is not enough of nutritive value for some of our physical efforts. Fruits, however, are extremely valuable, and should have their part in the daily life. The acid in the fruit is an antiseptic, and is fatal to many disease germs. If we have an ailment that is caused by a germ the eating of fruit judiciously will prove very beneficial. Fruit acts beneficially upon the liver also.

Fruit contains in addition to the things that I have named a considerable amount of fibrin. This fibrin is very beneficial to the body, for it keeps the whole digestive tract in good condition. We have a less proportion of vegetable fiber in fruit than perhaps in any other substance we use as food, and it is in a soft condition which is not harmful, but, on the contrary, beneficial.

The best fruit contains the most water. Take fruit that is not very well developed and submit it to an analysis, and it will be found to contain a less percentage of water than good fruit. People sometimes say that fruit is not valuable because it has a high per cent of water, but that is a mistake. The mere fact that fruit has a high percentage of water will not detract anything at all from its value; but the absence of acid will.

There are certain oils or certain acids in some fruits which do not agree with certain people; but that is not true of all. For instance, some people cannot eat strawberries. The reason is that some of the elements which the strawberry contains do not agree with these particular individuals. There is no kind of food that has a higher value and that is really more wholesome than good fruit, and the fruit that does the most good is that which we raise by our own skill and industry. There is nothing that adds more to real enjoyment and contentment than fruit. There is nothing that adds more to the associations of a home than the planting of fruit trees. There is nothing that adds more to the health and well-being of mankind than fruit, and there is no crop that adds more to the material welfare of our people.

CLEANING OATS

There is quite a bit of argument in this locality as to the advisability of cleaning oats for seed. Would like to have your opinion.—F. A. Smith, Marion county, Kan.

There has never been any question in the minds of thinking farmers as to the advisability of sowing good seed. It was also true that no crop of seed harvested is all good. It is a matter of economy, as well as a money making proposition to sow only such seed as will produce. We do not think there can be two sides to this question. Any good fanning machine such as is advertised in KANSAS FARMER is capable of separating the poor seed from the good, and such a machine should be found in the granary of every farmer in Kansas. What does it profit a man to sow seed, a large percentage of which is not capable of germination? Poor seed means a replanting or a poor yield. The only way to determine good seed is by aid of the fanning mill and the test for germination, both of which pay.

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DIRECTIONS: Trace the outlines of the faces on this or a separate sheet of paper, and number them 1, 2, 3, etc. Mail or bring your answer to our store.

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Remember, you must find at least seven of the 10 faces, and everyone answering this will get something. The best prize will be awarded to the neatest answers received, and WINNERS WILL BE NOTIFIED BY MAIL.

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Then another set of my experts figured the cost of materials and of selling on my direct-from-factory small profit plan and then they fixed the price based on 55,000 output.

The 5-H.P. Engine that our experts consider next to ours in quality sells to the consumer for $225.00. We **do** know, however, and **do** guarantee that our engine is easier to handle, easier to put on different kinds of work, easier to start, and smoother running. My account experts found that we could sell this engine at a fair profit direct to the user on 30 to 365 days free trial with a liberal guarantee for $119.50.

This means a saving of $105.50 in cash to every customer over the price they would pay for the other engine. And I give you a better engine to boot.

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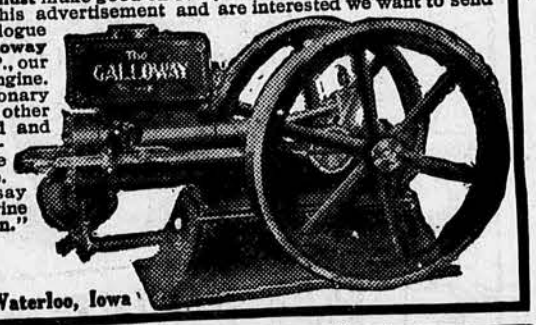

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ADDRESS CIRCULATION DEPARTMENT KANSAS FARMER, TOPEKA, KANSAS.

The fisherman has at least two virtues. He must have industry to dig the bait and patience to use it.

Very many cases of spontaneous combustion have been caused by a spark from a tobacco pipe.

Experience With a Manure Spreader

I consider a manure spreader the most useful piece of machinery that a farmer can own. It will make him more profits for the amount of money invested than any other piece of machinery on the farm. It is a great farm improver if properly used and a great crop increaser and this is what I have accomplished with the use of a manure spreader. I bought my present farm about ten years ago and as it had been a rented farm for over twelve years it was in very poor condition. It would hardly raise corn any more. On account of its being run down so badly I had the opportunity to buy it very cheap at $35.00 per acre. After I bought the farm I also bought a Galloway wagon box manure spreader and whenever I had any spare time I put the spreader to use, and by making good use of it for the past ten years, I today have one of the best crop producing farms in this part of the country. Land that wouldn't raise corn ten years ago, produced this year from 50 to 75 bushels of corn per acre and has averaged better than 40 bushels of corn per acre for the last five years, while my neighbor just across the fence, who don't believe in a manure spreader, has been raising from 15 to 20 bushels per acre. My oats made 50 bushels per acre, my neighbor's made 30 bushels per acre. My alfalfa made over 5 tons of hay to the acre, my neighbor's made hardly 3 tons an acre. My neighbor's land is just as good as my land. All it needs is going over with a manure spreader and to be given a coat of good manure. That is all that made my farm produce bigger crops and besides the increase in crops it also increased my land in value. I could sell at present at $150 per acre. So when you consider the increase in crop and also the increase in the land value which was mostly brought on by the use of a manure spreader on my farm for the past ten years, the manure spreader was surely a good investment for me. It more than paid for itself two and three times each year and yet you hear some farmers say that they don't think it pays to have a manure spreader! They say they can spread the manure just as well by hand and save the cost of buying a spreader. Now I have the first man to meet yet that can spread manure by hand and do it half as well as a manure spreader does it. By the use of a spreader you can make the manure go three or four times as far as you can to spread by hand and you can haul as much in one day with a spreader as you can to spread it by hand in two or three days, so just consider the labor you save by using a spreader. You can take a spreader and load it up with any kind of manure and then haul it out in the field and rest while you unload and the man who spreads it by hand has his hardest work to do when he unloads. Mr. Farmer, you can't afford to kill yourself for the few dollars it costs to buy a manure spreader. Just be convinced and buy a spreader and haul out that manure that is going to waste on your farm, and see how it will pay you. I say again, you can't afford to farm without a manure spreader nowadays. For the dressing of alfalfa fields a spreader can't be beat. It will almost double the hay crop and how it will improve a worn out pasture! You would be surprised at the results obtained by running over it with a manure spreader. I had a worn out pasture that I reseeded with my spreader. Hauled the manure from the horse barn on the pasture when I was feeding clover and timothy hay to my horses and I got a good stand of clover and timothy and whenever I have a spot in my pasture where the grass is killed out I just take my spreader and take some clover and timothy manure and run over the spot and then in a short time I have a good pasture again. I just believe if every farmer in the state of Kansas had a manure spreader and would use it whenever he could it wouldn't be long until it would mean millions of dollars for them. So, Mr. Farmer, the next investment you make, make it in a manure spreader and you will soon say, as I am saying, it was the best investment you ever made on your farm.—Wm. Luckeroth, Seneca, Kan.

THE STREAM OF GOLD

Back in an Iowa town where there is located a prosperous creamery, a live fight was brought on between the two local banks to get the creamery as a depositor. The outcome of the contest was that the cashier of one of the banks was elected treasurer for the creamery and with his office went the choice of a bank for transacting its business, says the Review.

We can readily understand the eagerness of banks to handle the accounts of creameries. Invariably they carry a good balance to their credit. There is a steady and dependable stream of money coming from outside of the community, much of which remains in the bank until it is absorbed by the needs of the creamery and its patrons. It is this money that the banks get after. But the eagerness of a bank for the account of a creamery is only one manifestation of the advantages of a community where the dairy business flourishes. When you find a section of country devoted to dairying you find all the advantages that come from a steady inflow of money—ready cash, bills paid, money to loan for purposes of development and improvement, and so on. An example of this is well shown by the state of Iowa, one of the leaders in the dairy business. The Iowa cows and hogs have made that state a money lending one, and as an Iowa banker recently stated at a convention, millions of dollars of Iowa farm money has to seek investment in other states, California being one of the main beneficiaries of the eastern state's financial plethora. The cow and the industry based upon her work are indeed winning a place in the public estimation as prosperity makers.

Baked Potatoes.

Does anyone know of anything that is any "gooder" in its way than a baked potatoe? Does anyone remember to have seen a baked potatoe that was not baked too hard, or even burned on one side? A potatoe baked in the usual way loses both in flavor and quality on account of this unequal baking.

Here is a simple way to bake them right. Take a peach can and unsolder all the joints. This gives you a straight sheet of tin about 6 inches wide and long enough for the purpose.

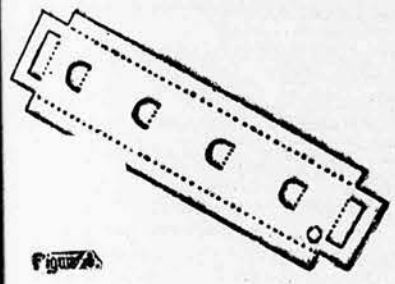

Figure 1.

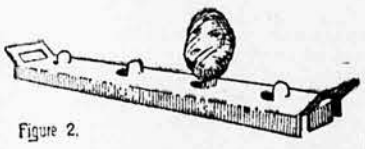

Figure 2.

Now get a chisel and cut it according to the lines shown in fig. 1. Bend down the ends and sides as shown in fig. 2. Bend up the handles and the little pieces in the middle and you have an ideal potatoe baker. The little central pieces are better made in the form of a triangle with 2 cuts of the chisel except that their sharp points are likely to wound the hands. Rounded points can be cut with a gauge, or with a very narrow chisel and then smoothed off with a file. Try an old can on this once.

Ensilage Experience.

"The whole matter was new to me. I studied it out, read everything I could get bearing on the matter and I am a convert to the new system of harvesting and saving crops, so much of which we have wasted in all the years past. I am wintering 60 head of steers, my cows, young cattle, horses, etc., on silage. Hogs eat and enjoy it. All live stock eats it, even the chickens. It is an ideal feed, my stock looks as slick, rounded and handsome as on summer pasture. My silo is made of long leaf southern pine, capacity 200 tons. It required the crop from 18 acres of heavy 50 bushels to the acre corn and then I did not quite fill my silo. I tell you hot silage on cold mornings makes the stock feel good. I started feeding nine pounds per day; now I am feeding 12 with hay. My old Jersey cow has increased her milk flow considerably and my four Durham cows are fat and getting fatter on silage.

"Yes, I kept a record of all my expense in filling my silo and the average per ton was 58 cents. I hauled my corn on flat racks about 60 rods. Most of my corn was cut by a corn harvester with an elevator that loaded the bundles on the wagon, the same as loaded wheat is conveyed to header boxes.

"My silo cost $350 and the foundation about $38. My silage cutter was the largest size, capacity 100 tons in 2 hours; engine was a thresher, 12 horse power. We put in 50 tons of silage in half a day with this outfit. Cheap as the work was accomplished, my experience shows that it cost too much, almost entirely in the cost of power for the cutter.

"Here are my figures:

Labor, power, board, etc.	$103
Silage cutter	225
Loader	60
Total	$338

"Counting thus my 175 tons of ensilage cost $2.22 per ton to store; but I have my machinery left and it is good for many years. Taking out my machinery reduces the cost to 58 cents per ton. Conditions have much to do with this cost, length of haul, etc. It could be a rush job, it surely is no lazy man's job. Rains and dews do not delay only as they hinder by discomfort in hauling wet corn.

"I have made an estimate of the remaining contents of my silo and I could feed each head of my stock 28 pounds per day and have enough to carry me to May 1. I shall not use so much, however. I want to keep enough for my milk cows in any possible dry time next summer.

"I wish you gentlemen could see my glossy haired cattle, they are so evidently thrifty."—R. G. McCulty, West Branch, Kan., at Butler Co. Institute.

Fertilizer for Old Corn Land.

What kind of fertilizer would you recommend for ground that has been in corn for a number of years Can the fertilizer be sowed in with the corn when planted? Also state prices on same.—J. R. Kauffman, Mound Valley, Kan.

Nothing is better for such ground than barnyard manure as a general proposition, though a chemical analysis of the soil would be necessary to exact knowledge. There are 10 chemical elements which enter into the food of every plant and without all of these the plant cannot thrive. Of these 10 there are 3 that are most important because consumed in largest quantities. They are nitrogen, phosphorus and potash.

There is another factor in crop production which is most highly important and which is too often overlooked. This is humus and the mechanical condition of the soil together with the action on plant food which it produces. Without humus the soil becomes very hard and cloddy in dry weather and sticky and pasty in wet. It may have the elements of plant growth in plenty but its physical condition is such that it cannot be cultivated properly and does not produce.

Barn yard manure relieves this condition and at the same time supplies the plant food which is most needed and most likely to be scarce. Besides, it is cheaper and the farmer can apply it at times when other work is not pressing. It should be hauled out and distributed at once by aid of a manure spreader, and not allowed to leach away its good qualities in rain and snow.

Beginning now I would give this old corn field a good coat of barn yard manure. Then in the spring I would plow it under and sow the land to oats or some other spring crop. When this is harvested I would turn under the stubble, pulverize the ground well and then seed to alfalfa about the middle of August just as nearly preceding a rain as possible. Allow this land to remain in alfalfa for from 3 to 5 years and then manure and plow under the last crop and follow with corn.

By practicing a rotation of crops and the use of an abundance of farm yard manure the old corn ground will be improved and brought back to its condition of original fertility and its present condition avoided.

Your recent articles on dry farming are simply invaluable to the farmers of this country as well as to those of the United States. I hope you can send me some extra copies of the issues of KANSAS FARMER containing these articles that I may distribute them among our farmers here. I have adopted your method of dry farming in my 60 acre orange grove and am convinced that it is the solution of a scientific problem.—Dr. E. P. Miller, Cellabos, Cuba.

To produce a perfect plant there must be a perfect seed, planted in a perfectly prepared soil and cultivated by a trained intelligence. In just so far as there is a deficiency in any one of these particulars will the result fall short of a perfect crop. And as the trained intelligence is essential the selection of the seed and the preparation of the soil, we quickly find that this is the foremost, the dominating requirement of "successful farming."

If you never change your mind you will never correct your mistakes. The smart man is not he who does not make mistakes but he who never makes the same one twice.

Dry farming in Kansas has nothing to do with the laws on the statute books.

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The World's Best Hatcher—The Best Built—The Easiest and Cheapest Operating Machine in the World—To Every Reader of This Paper—The Freight Prepaid

For a 2-Hatch or 42 Days' Trial

Try my Incubator before you buy—that's my offer in a nutshell. It's the fairest, squarest offer I can possibly make. If I knew of a better way to show the superior merit of my Incubator over the other kinds I would certainly do it. My customers call the Fairfield Incubator the World's Best Hatcher—I am so sure they are right that I will send you this Incubator, freight prepaid, for a 2-hatch trial.

My 90% Hatch Guarantee On The Fairfield Incubators

I didn't hire any lawyer to write this guarantee. I write it myself. There are no loop holes or escaping-out places. If you don't like my Fairfield Incubator for any reason whatever, I don't care whether it is look's or results, you get your money back. That's my guarantee. When I signed it I dipped my pen in the mucilage bottle to make it stick.

I guarantee the Fairfield Incubator to hatch ninety per cent of all fertile eggs. I guarantee it to be the World's Best Hatcher—best in looks, results and ease of operation.

I guarantee the heating system of the Fairfield Incubator to be the best possible for uniformly high percentage hatching and guarantee that the Fairfield heating system is found only in Fairfield Incubators. The thermostat heat regulator is guaranteed to prevent the temperature varying more than one degree during the entire hatching period.

In short, I absolutely and unconditionally guarantee the Fairfield Incubator to be the best possible hatcher from any point of view. I agree to refund your money if it is not so if after purchase you are dissatisfied with this machine for any reason whatever.

Nebraska Incubator Company
Signed Sam Thompson Pres.

The Fairfield Is Built To Make Good

It's built in an honest way of honest material to do honest work. Nothing but fine California Redwood is used in constructing the box and the binding is fine quality cypress. The complete Incubator is finished in a first-class way. I am a crank on workmanship and looks and I promise here that my machine will not disappoint you no matter how critical you may be.

Every machine which leaves my factory has been thoroughly inspected and tested. Each machine must stand my severe 100 per cent perfect test before I will consider it good enough to send out—that means when the Fairfield reaches you it is ready to cut your expense and swell your poultry profits.

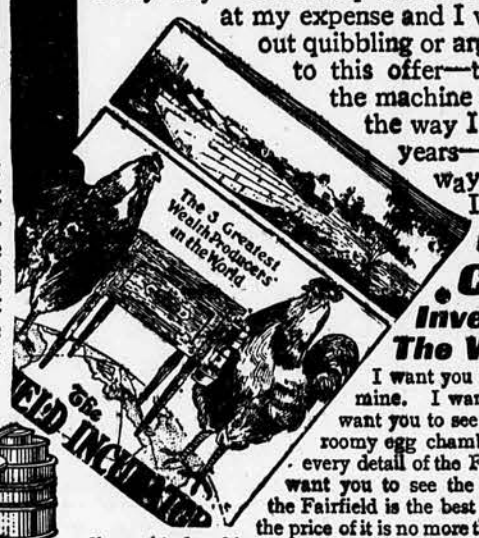
Sam Thompson, Pres. Nebraska Incubator Co., 177 Main St., Fairfield, Neb.

I Personally Guarantee My Fairfield Incubator

To Make 90% Hatches or Refund Your Money

I am taking no chances by making this offer. It is built to do this and I know it will make good. It has earned the title of the World's Best Hatcher and I want to prove to your satisfaction that the Fairfield is the machine you need.

Try it in your home—select good fertile eggs—let it hatch twice—if it does not hatch 90% or better—if you do not find it easy and cheap to operate, if it does not meet your expectations in material and construction, if it's not satisfactory in every way—don't keep the machine, pack it up—send it back at my expense and I will return your money without quibbling or argument. There are no strings to this offer—the Fairfield must satisfy or the machine comes back to me. That's the way I have been doing business for years—almost everybody out this way knows me—will tell you that I make good every promise.



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I want you to know more about this machine of mine. I want you to see how it is constructed. I want you to see the perfect heating system—the large, roomy egg chamber. I want you to see every point—every detail of the Fairfield and most particular of all I want you to see the positive proof of my claims that the Fairfield is the best Incubator in the world and that the price of it is no more than you would pay for the ordinary kind. My free catalog contains all this information. It contains many pictures of up-to-date poultry yards which will interest you

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It will only take a minute's time and it will be the best move you ever made. It will prove to be the safest, surest and best way to solve your Incubator problem and from an investment standpoint the Fairfield will produce greater returns for time and labor required than any investment you ever made in your life. Act now—get the best—get a Fairfield—remember the cost is no more than you would pay for an ordinary machine.

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Dear Sir:—Kindly send me free of charge your new Incubator Catalog and Poultry Book; also give me full particulars about 2-Hatch Trial Offer and 90% hatch guarantee on Fairfield Incubators.
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Town.....
State.....
R. F. D.

Twenty-five Reasons Why You Should Buy a Silo.

1. Because 53 pounds of stalks in every 100 raised are lost by feeding corn fodder as ordinarily cut and shocked and allowed to remain in the field a month or longer.

2. Because corn silage saves hay to such an extent as to enable you to get $4.98 to $6.20 per ton for that silage.

3. Because an investment of $300, $400, or $500 in a silo will net you a greater profit than the same amount of money can possibly do when invested in stocks or bonds.

4. Because the silage is as near nature's food as you can get it. Like green grass it is laxative. To get the best results, feed about 5 pounds hay per animal per day to cows and steers.

5. Because it greatly reduces the daily cost of feeding work horses.

6. Because silage has been tested carefully on cows, steers, horses, sheep and calves and its feeding value fully determined.

7. Because every particle of silage is eaten or utilized in some way. The few small parts rejected are used for bedding and become an absorbent for the liquids in the manure.

8. Because it is less work to feed silage in the winter than it is to feed corn fodder from the field shocks or the corn stack.

9. Because it takes less work to load the freshly cut fodder on a low-down wagon for the purpose of hauling it to the feed cutter, than it does to carry the bundles to shocks and tie each shock.

10. Because you can handle the green fodder with the least possible waste. There is no loss resulting from pocket gophers throwing dirt up in the center of the shocks. Birds, rats, mice, and rabbits also destroy a small per cent of shocked corn.

11. Because you sustain an unavoidable loss even though you stack the corn fodder. This stacking, if done too early, heats and blackens the fodder. If the air is not moist at the time of handling the bundles, there is a loss due to the breaking of the stalks and scattering of the leaves when stacking. This it is impossible to obviate. Then again the rain and snow damage a very large part of a corn fodder stack.

12. Because it is almost always impossible to shred corn fodder in the fall and put it in the mow or stack without heating. The fall of 1910 was generally very dry in Iowa. Oliver Parker, Jesup, Iowa, cut and shocked fodder at the proper time. About December 1 this fodder was run through a shredder and part put in the mow and part in the stack. The fall weather in that locality was very dry and the weather had been dry and exceptionally favorable for shredding this fodder. And still it heated in the mow and stack. This means much loss in the feeding value of the fodder.

13. Because it enables you to provide for the great loss in properly curing alfalfa hay in rainy weather. This green cut alfalfa ensiled at such times will, when fed, yield at least one-third more digestible food than the same cut for hay during rainy weather.

14. Because it makes you more money on the amount invested than you can make on bank stock or bonds or railroad stock. On corn yielding about 40 bushels, or say 10 tons silage per acre, the difference per acre in favor of silage is about $13.25 or $132.50 for 10 acres. On a pine silo costing $268 you have saved 58 per cent the first year. On a cypress silo you save 33 per cent. Suppose that in either case you borrow the money at 8 per cent and make an exceptional allowance of $20 per year for depreciation in value on the silo, you can still declare yourself dividends ranging from 20 to 38 per cent.

15. Because with silage you can reduce the hay acreage on your farm to three-fourths of what it now is.

16. Because the average cost of a ton of hay based on the rented value of land at $3.50 per acre is $1.75. The average cost of a ton of silage on the same land is about 35 cents.

17. Because it is good feed for sheep. Sheep make as rapid gain on a corn silage ration as they do on a hay ration.

18. Because it is good for steers and that portion of the undigested corn in the manure of the silage fed steer, is eaten by the hogs following and as a result there is no loss in the manure whatever.

19. Because silage keeps the bowels of horses, sheep, cows, steers, and calves in as near nature's condition as it is possible to do. Silage has no substitute in this regard. It is absolutely the cheapest and best. No stock-food on earth can equal it in price or bowel-regulating qualities.

20. Because silage produces a pound of milk and butter for less money than you can produce it with any other feed on the farm. Thirty to forty pounds silage, five pounds hay per day, and eight or ten pounds grain per cow, giving say 25 to 30 pounds milk per day, will produce butter for about 13 cents per pound.

21. Because the Mississippi Experiment Station's exhaustive test with 247 dairy cows proved conclusively that they produced butter-fat in winter for 9 cents per pound less with silage and grain-fed cows, than they did with hay and grain-fed cows. What does this mean in dollars and cents to you? Place a value on the food consumed by your cows. Suppose you have 15. Assume that each cow is giving 1 pound of butter-fat per day. You are saving 9 times 15 or $1.35 per day, or $40.50 per month by feeding silage and grain instead of hay and grain. In Iowa that would amount to $240 in 6 months on 15 cows. Does that pay? Are you doing anything that pays any better? Suppose the cows are giving little or no milk for two months in the winter and that they are due to freshen in March or April. They should be fed as liberally as though producing 1 pound fat per day; so that in either case you are saving 28 per cent on the food cost of caring for those cows.

22. Because 10 tons of silage can be placed in the same space occupied by 1 ton of tame hay.

23. Because the Vermont Experiment Station produced $26 worth more of milk on one acre, on corn silage from corn yielding 10 tons per acre than they did on corn fodder from corn yielding the same quantity and quality. This is another proof that the silo will just about pay for itself the first year. Multiply $26 by 15 acres and you have $330, the amount saved.

24. Because it is more work to handle and feed either shredded or shock fodder than it is to feed silage.

25. Because a silo will pay you a larger dividend on the money invested than any equal amount of money invested in any buildings or farm tools on the farm.—J. N. Muncey, Jesup, Buchanan Co., Iowa.

Peonage is a crime in Kansas and most people would rise in angry protest if informed that it now exists in this state. When the unsuspecting college boy comes from the east to live the simple life and harden his football muscles on a Kansas farm he engages to work during the "haying season." He begins work in an alfalfa field only to learn that the haying season lasts the greater part of the year. He gets the hardened muscles all right but his contract "for the haying season" is different.

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Highest Quality silo on the market. Made from Full-Length staves of Clear Washington Fir. One-half inch tongues and grooves. Powerful steel frame. Malleable Iron Ladder.

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THE BOOK CONTAINS 100 closely printed pages, stoutly bound in yellow cloth. All possible formulas for mixing cement are in it. Its directions are so plain that any one can understand them.

THE PRICE is 50 cents a copy postage prepaid. Or given as a premium with one year's subscription to KANSAS FARMER, either new or renewal at the regular price, $1.00 per year. Order a copy today and you will say it is the best investment you ever made.

Free To Boys

I Have a Glove, Mitt, Mask, Ball, Bat Cap and Belt for Every Boy Who Will Write to Me.

There are seven splendid pieces in this great outfit. The ash bat is a good one, the mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

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The entire plow and extra share made of the best of hardened, soft center steel, highly tempered and polished in oil. Guaranteed to be entirely satisfactory, and the greatest value in a plow ever offered, or it can be returned at our expense and money refunded.

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Write now and tell us what you want, and we will quote you prices delivered at your railroad station, all freight charges prepaid. Above plows with wood handles. 25c each less.

$11.25

HAPGOOD PLOW CO., Box 824, ALTON, ILL.

A responsible Plow Factory, backed by forty years' experience selling direct to the farmer at wholesale prices.

SEED POTATOES, SEED CORN OATS AND ONION SETS

Send for our SEED CATALOGUE all kinds of FIELD AND GARDEN SEEDS.
HAYES PRODUCE CO. 524 N. KANSAS AVE, TOPEKA, KAN

Poultry Notes.

If the early hatched chicks can be tided over the inclement spell of weather that usually comes in March, they will be well worth the extra care and attention that will be given to them, for it is the early friers that count, and the early pullets that escape the frying pan will be the ones that start to lay early in the fall.

More brooms should be worn out in the poultry house and yards than there are. You cannot keep the premises too clean, and by keeping the place clean you keep your fowls in good health.

A little linseed meal in the morning mash is a good thing, two or three times a week. It keeps the fowls in good condition. Those who buy their mash food already mixed, need not add any linseed meal, for nearly all the manufacturers of poultry food add this ingredient to the ration.

If you have not yet done so, renovate the poultry house. Seed the runs to oats, rye or wheat, at the earliest moment possible. This will provide early green food. Mate your breeding pens and be ready for the egg season now coming on.

You are the loser, if you advertise first class goods and ship out inferior stuff.

Mites will soon be at their work. It's up to you to prevent it.

Green cut bone or fresh meat is a necessity to your chickens at this time of the year.

Never allow the flock to eat, or get a chance to eat, tainted meat or bone.

Courteous treatment to customers is a business asset. Square dealing brings the "repeat" orders.

F. B. Spicer is the new secretary of the Tri-State Poultry Association at Parsons, Kan. This association has decided to use uniform cooping for their show of 1911. The members are live wires. Fanciers expecting to exhibit their birds next season will do well to remember the Tri-State show at Parsons, Kan. With the exception of the state organization it is the oldest poultry associaiton in the state. The Tri-State Cooping Co. will probably coop the coming exhibition.

1911 Poultry Outlook.

The outlook for the egg season of 1911 is the best in the history of thoroughbred poultry. All indications are that more eggs will be purchased from breeders of fancy fowls than ever before.

In my experience as a breeder and judge of fine poultry, never has there been shown, the enthusiasm that has been displayed the past show season and at the present time. It behooves the breeders and fanciers to place the merits of their stock before the poultry buying public and reap their share of the business now turning for eggs and pure bred stock. Don't wait, but do it now. Advertise in KANSAS FARMER. It will enable you to dispose of your surplus eggs at remunerative prices. There are no more likely customers for eggs for hatching from pure bred poultry than the farmers of Kansas.—C. E. Smith, Bayneville, Kan.

Trimming a Hedge.

Will you please answer the following question: Suppose a hedge row stands between the farms of A and B, but is about a foot inside of the line on A's side. This hedge has never been trimmed and the limbs project over B's place about a rod. Now I would like to know whose duty it is to trim this hedge. An answer in the columns of your valuable paper will be appreaciated.—N. R. B., Sedgwick county.

The encroachment on the rights and ownership of any man's property is against the law. This encroachment can be made by the man himself or his live stock in which cases it would be be called a trespass. In the case of growing trees it is the duty of the owner of the ground on which the trees grow to keep them trimmed within bounds. Like most questions of law which are submitted to this paper, full details are not given. If the owner of the land on which the hedge grows refuses to trim it, so that it will not encroach on the land belonging to the other party, he can be compelled to do so by action at law or the other party who has suffered by such encroachment may trim the hedge himself and charge the expense up against the owner.

As in most other cases where difference of opinion arises between neighbors, it is always our advice to adjust the matter by personal interview or by arbitration. It very rarely pays to go to law over any question.

Ever try to cut anything with one of the knives your wife uses in the kitchen Well, just try it once then get busy with the grindstone.

KANSAS LAND

FARM BARGAIN.
725 acre stock ranch and grain farm, 25 miles from Topeka, 1mile to R. R. station on main line of Union Pacific and 5 miles from Topeka, 1 mile to R. R. station and 430 acres upland; the bottom land is cultivated, the upland is native meadow and pasture; 75 acres of bottom land now in alfalfa; two sets of good improvements; this farm must sell. Price only $65 per acre, terms; if you want a good farm at a bargain, don't miss this one. Will trade for smaller farm. For further information call on or address
L. E. ANDERSON,
Ind. Phone 1847. 800 N. Kansas Ave. Topeka, Kansas.

CHEAP LANDS FOR SALE.
Well improved. $10 to $35 per acre; cuts 5 tons alfalfa yearly; 50 to 100 bus corn; 50 to 75 bus. oats; 25 to 40 bus. wheat; 1 bale cotton from one acre sold this year for $60. No hot winds; no irrigation. Write for description of 50 farms
G. W. LANDRETH, Joplin, Mo.

ARKANSAS LAND.

MISSISSIPPI COUNTY, ARK., LOCATED in the great St. Francis Valley, the most fertile and productive land in the world; produces abundantly, corn, cotton, alfalfa and red clover and pays a cash rent of 10 per cent on the investment; descriptive booklet mailed free on application. The **Blytheville Realty Co., Blytheville Ark.**

ONE OF THE BEST FARMS IN BENTON COUNTY.
180 acres, price $18,000; 82 acres bearing apple orchard, fine condition; 10 acres Elberta peaches, fine condition; 40 acres good timber, and good land; 48 acres corn land and meadow; good 8 room dwelling, barn, granery, hay barn, tenant house and barn, 2 fine wells water, 2 good springs, 3 miles northwest of Rogers, 3 miles southeast of Bentonville, quarter mile railroad station. This is something fine. Sandy loam land, red clay foundation. Write Benton County Realty Co., Rogers, Ark.

PURE BRED POULTRY

BUFF ORPINGTONS.

SINGLE COMB BUFF ORPINGTONS—40 fine cockerels, $1 to $5 each; eggs in season. Mrs. S. T. White, Rose, Kan.

CRYSTAL WHITE ORPINGTON EGGS $3 per 15; two grand pens. Ida K. Bradley, Holton, Kan.

WHITE ORPINGTON COCKERELS $3; extra utility stock; eggs $3 per 15. G. W. Melton, Yates Center, Kan.

S. C. BUFF ORPINGTON COCKS AND cockerels; fine fellows; $2 to $4 each; April hatched from Cook & Son's $10 and $20 eggs. Eggs in season. Mrs. J. B. Swartz, Box 73, Byron, Neb.

BUFF ORPINGTONS—25 GRAND COCKerels and mated breeding pens from trapnested prize winning heavy layers. Eggs and baby chicks. All described in my poultry book sent for 10c. W. H. Maxwell, R. 95, Topeka, Kan.

FOR SALE—W. ORPINGTON COCKERels $5 each; Kellerstrass strain. L. S. Schwab, Cherokee, Kan.

4 PENS FARM RAISED BLACK LANGshans. W. A. Smith, R. 8, Pittsburg, Kan.

FOR SALE—CRYSTAL WHITE ORPINGton cockerels; Kelleretrass strain. Eggs from pen headed by Crystal King, $3 for 15. F. A. Vaniman, McPherson, Kan.

PLYMOUTH ROCKS.

BARRED ROCKS, PURE BRED, CHOICE birds. Chris Bearman, Ottawa, Kan.

CHOICE BARRED ROCK COCKERELS $1.50 each. S. E. Wilson, Grantville, Kan.

WHITE ROCK EGGS $2 FOR 15; COCKerels $1 to $5. W. F. Blackwell, Quinter, Kan.

BUFF ROCK HENS, $1. TO $2; EGGS, 15, $1; 100, $4. W. A. Hilands, Culver, Kan.

BARRED ROCK COCKERELS $1 EACH if taken soon. Mrs. Wm. Bumphrey, Corning, Kan.

WHITE ROCKS, FARM BRED. COCKerels $1.50 up. Eggs $1 per 15; $6 per 100. R. E. Mesnard, Humboldt, Kan.

BUFF ROCKS—LAYING STRAIN; EGGS for sale, $1.50 for 15. Write me, John F. Hess, Humbolt, Kansas.

BARRED ROCKS AND BUFF LEGhorns; 100 birds for sale; score 88 to 92; 30 premiums. L. D. Peak, Logan, Kan.

FOR SALE—PLYMOUTH ROCKS, BUFF and White Orpingtons, Buff Cochin bantams. Binford & Sons, Eldorado, Kan.

EGGS FOR SALE FROM B. P. ROCKS and R. C. Rhode Island Reds; the Reds are the great winter layers; my 60 pullets layed 2600 eggs in Nov., Dec. and Jan. A. Kriner, Winfield, Kan.

BARRED ROCK EGGS FOR SALE AT $1.50 to $2 per setting or fifteen. Mrs. Junia Spohn, R. F. D. 1, Garnett, Kas.

J. A. AYERS, LA PLATA., MO., ORIGInator of the Ostrich Plume strain of Barred Plymouth Rocks 24 years a breeder of these famous American birds.

THOROUGHBRED BUFF ROCK COCKerels, $1 to $1.75; free range eggs, $1.25 per 15, $5 per 100. Mrs. Anna Sanders, Allen, Kansas.

WAGNER'S BARRED ROCKS, FARM raised; old and young; single, pairs, trios, pens, or in large numbers. Write for particulars. Mrs. E. C. Wagner, Holton, Kan.

FOR 22 YEARS A BREEDER OF Barred Plymouth Rocks exclusively; for show, table use and egg production. Large size cockerels $3 each; $2 for 15 eggs. G. E. Dyksterhuis, Holly, Colo.

GRIFFITH'S WHITE PLYMOUTH Rocks; bred for eggs; excellent in color and shape; eggs at reasonable prices; write E. E. Griffith, 301 So. 19th St., Independence, Kansas.

BARRED ROCK COCKERELS, HENS and pullets; all from prize winners; vigorous, farm raised stock; cockerels, $1.50, hens, $1; eggs, $1 per 15; $5 per 100. Mrs. H. Buchenan, Abilene, Kan.

BUFF PLYMOUTH ROCK COCKERELS. Good breeding cockerels $3 each, 2 for $5, while they last. They are good value. C. R. Baker, Box F, Abilene, Kan.

BARRED ROCKS—BRED FOR BEAUTY and profit; 36 pens; Topeka, Manhattan, Clay Center; males, $2 to $5; eggs, 15, $3; 30, $5; 15, $1.25; 60, $4; 100, $6; chicks, 20c, 40c. Mrs. D. M. Gillespie, Clay Center, Kan.

HOUDANS.

HOUDAN COCKERELS—FROM $1 TO $3. E. D. Hartwell, Rossville, Kan.

PURE STRAIN HOUDAN EGGS, $1.50 per setting of 15 eggs, 50 $3.75, 100 $7. S. P. Green, breeder of Houdans exclusively, Columbus, Kansas.

WYANDOTTES.

WHITE WYANDOTTE STOCK REDUCing sale. Model Poultry Yards, Hanover, Kan.

BUFF WYANDOTTES—BABY CHICKS AND EGGS.
All stock have splendid laying records and breeding pens contain only high scoring birds.
G. C. WHEELER, Manhattan, Kan.

WHITE WYANDOTTES.
Quality White Wyandottes; heavy layers and winners; bred for results; they are second to none. Choice breeding stock and eggs. Write for prices.
H R. BOMHOFF,
R. R. 5, Pittsburg, Kansas.

White Wyandottes and Indian Runner ducks. Winners at Independence and Coffeyville, Kan., past season. Grand in color, type, and size, unexcelled as egg producers. Write for egg circulars and mating list.
W. E. MILLER,
R. 6, Independence, Kan.

BUFF WYANDOTTE BREEDING STOCK for sale. W. K. Heaton, Larned, Kan.

PARTRIDGE WYANDOTTES; EGGS FOR hatching; males scoring 95; win at all shows. Write S. S. Jackson, Scranton, Kan.

SILVER WYANDOTTES FOR SALE; AS good as the best; eggs $2 per setting; incubator eggs, $5 per 100. M. B. Caldwell, Broughton, Kan.

LANGSHANS.

TENNEHOLM FARM BLACK LANGshans for sale. The best lot of cockerels I ever raised. Prices reasonable. Write at once. Mrs. E. S. Myers, Chanute, Kan

KLUSMIRE'S IDEAL BLACK LANGshans; winners at Topeka, Horton and Leavenworth shows; eggs from winning stock. Write for prices. George Klusmire, Holton, Kan.

CONYERS' BLACK LANGSHANS HAVE proven themselves the best in the Southeast; Kansas' Great Layers. A few choice ckls. and pullets still on hand. Write for prices on eggs and stock.
H. CONYERS,
702 W. Kansas Ave., Pittsburg, Kan.

LEGHORNS.

PURE BRED BROWN LEGHORN ROSE Comb cockerels; satisfaction guaranteed; $1 each. E. R. Grant, Kingman, Kan.

BLACK LANGSHAN COCKERELS. CATalog free. Booking egg orders. Haynes Poultry Farms, Grantville, Kan.

FOR SALE—SINGLE COMB WHITE Leghorn eggs; $1 per 15; $5 per 100. Address. Mrs. N. J. Alvey, Berryton, Kan.

MOORE & MOORE, SPECIALISTS—Single Comb Brown Leghorn and Buff Rocks; separate farms Write for circular. Osage City, Kan., Route No. 6.

PURE BRED ROSE COMB WHITE leghorn eggs from prize winners; $1 per 15, $5 per 100; penned eggs $2 per 15. Jennie Martin, Frankfort, Kansas.

FOR SALE—WHITE LEGHORN COCKerels; all scored by Judge Tom Southern; $1 up, according to quality. Eggs $1 to $3. R. E. Davis, R. R. 5, Holton, Kan.

FOR SALE—S. C. W. LEGHORN COCKerels at $1.50 to $3 each; Indian Runner ducks, $3; drakes, $1.50 to $5; all from prize-winning birds. Eleonora Fruit and Poultry Farm, Centralia, Kan.

MUCH SHOWN—NEVER DEFEATED.
S. C. White Leghorns, White H. turkeys, Indian Runner ducks. Males and eggs for sale.
MARY CULVER, R. 1, King City, Mo.

STINE'S BUFF LEGHORNS WON 1ST ckl., 1st pen at Topeka, Jan. 2 to 7, 1911; unexcelled as layers; stock eggs. Write for mating list. Mrs. H. A. Stine, R. 3, Holton, Kan.

QUALITY WHITE LEGHORNS—LARGE type S. C. White Leghorns, winners at Parsons' big show, Mo. State, Leavenworth, Kan., Pittsburg and Iola, Kan. The recognized egg layers. The breed that pays. Stock and eggs. Write for prices. C. T. Brunson Parsons, Kan.

MY STANDARD BRED S. C. BUFF LEGhorns won at Newton 1st cock, 1st and 2d cockerel, 1st, 2d and 3d hen, 1st, 2d, 3d and 4th pullet, 1st pen. Stock for sale—cockerels $1 and up. Eggs $2.50 for 15; $5 for 100. S. Perkins, 801 E. First street, Newton, Kan.

RHODE ISLAND REDS.

RHODE ISLAND RED COCKERELS; beauties; both combs; $1 to $2. Mrs. W. E. Murphy, R. 1, Luray, Kan.

PURE SINGLE COMB RED COCKERELS $2; 15 eggs, $1. Belle Tyler, Haven, Kan.

SINGLE COMB R. I. RED COCKRELS, $1; eggs $1 for 15. Albert Coe, Yates Center, Kansas.

FOR SALE—SPLENDID FARM RAISED R. C. R. I. Red cockerels; $1 to $3. Eggs in season. Mrs. J. Wedd, Oakhill, Kan.

SINGLE COMB R. I. REDS OF QUALIty, good color, excellent layers. Write for egg prices. Ellis E. Braun, 310 S. 11th, Independence, Kan.

20 GOOD ROSE AND SINGLE COMB Red ckls. for sale; Tompkins strain; large, vigorous birds for farm flock; order eggs early from prize winning pen. Dr. W. C. Bradshaw, Ogden, Iowa.

ANCONAS.

PRIZE WINNING MOTTLED ANCONAS. Eggs: $1.50 and $2 per 15 or $6 per 100. W. H. Hardman, Frankfort, Kan.

TRY ANCONAS FOR WINTER EGGS. I have the best that 11 years of experience breeding them has enabled me to produce. Circular. Mrs. A. R. Gosler, Matfield Green, Kan.

TURKEYS.

40 VARIETIES OF GEESE, DUCKS, turkeys, chickens, peafowls, guineas, pheasants, pigeons and rat dogs. Catalog 4 cts. F. J. Damann, Farmington, Minn.

"MAMMOTH BRONZE TURKEY TOMS and Scotch Collie pups for sale. Percy Lill, Mt. Hope, Kans.

FINE, LARGE WHITE HOLLAND TURkey toms for sale at $5 each. Address F. E. Wentz, Burlington, Kan.

BOURBON RED TOMS, $4 EACH; EGGS in season, 10 for $3.. Mrs. J. D. Gibson, Hamilton, Mo., R. R. 2.

SEVERAL BREEDS.

30 VARIETIES GEESE, DUCKS, CHICKens; catalogue free. Minkel & Co., Mapleton, Minn.

S. C. BLACK MINORCAS EGGS—15 FOR $1.50. T. F. Pine, Lawrence, Kan.

EGGS FROM PURE BRED POULTRY. Mating list free. Harry Inman & Sons, Keokuk, Iowa.

FOR SALE — WHITE WYANDOTTE cockerels, S. C. Brown Leghorn, Rose Comb Reds, Barred Rock eggs; chicks. M. A. Tomlinson, Eureka, Kan.

BLUE ANDALUSIAN—THE PREMier egg layers; large size, beautiful color; eggs from high scoring pens; send for mating list, 419 E. L. T. St., Independence, Kansas.

CHOICE LIGHT BRAHMA COCKERELS, $2 each; choice setting eggs. Mrs. Adda Prickett, Wamego, Kan.

EGGS AND STOCK FOR SALE OF 8 VArieties of Leghorns; 3 varieties of Minorcas; also Blue Andalusians, Mottled Anconas, English Red Caps, R. C. Black Bantams, White Cochin Bantams. Mr. and Mrs. Otis H. Crow, Hutchinson, Kan.

MAMOUTH PEKIN DUCKS—7 MAGNIFicent trios that have wone at Missouri State Show at Kansas City, Mo., Pittsburg, Kan., Muskogee, Okla. and Coffeyville, Kan. The grandest bargain ever offered. $7 per trio. A. C. Branusdorf, Parsons, Kan. Box 214.

EGGS—EGGS—FROM THOROUGHBRED Toulouse and Emden geese. Turkeys, peacocks, Rouen, Pekin, Muscovey and Indian Runner ducks. Pearl and White guineas. Bantams, Buff, White and Barred Rocks, S. S. Hamburgs, Houdans, Black Langshans, Cornich, Indian Games, Partridge Cochins, Buff Orpingtons, Rhode Island Reds, Buff, White and Silver Laced Wyandottes, Rose and Single Comb Brown and White Leghorns. Fancy pigeons, dogs, rabbits. Poultry eggs, 15 for $1; eggs by the 100 reasonable. Write for free circular. D. L. Bruen, Platte Center, Neb.

Readers Market Place

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HELP WANTED.

SALESMEN — TO SELL OUR LINE OF lubricating oils, paints and roofing paper. T. W. Johnson Co., Cleveland, O.

GOVERNMENT WANTS HELP—WRITE immediately for list of coming examinations in your vicinity. Franklin Institute, Dep't. 90, Rochester, N. Y.

WANTED—LOCAL MEN TO TAKE ORders for nursery stock in Kan., Mo., Okla., Ill., Neb. Experience unnecessary. Cash weekly. National Nurseries, Lawrence, Kan.

500 MEN 20 TO 40 YEARS OLD WANTed at once for elecrtic railway motormen and conductors; $60 to $100 a month; no experience necessary; fine opportunity; no strike. Write immediately for application blank, enclosing stamp. Address H. C. F., care of Kansas Farmer.

WANTED—A SINGLE MAN TO WORK on a farm; must have experience enough and honor enough to go ahead with all kinds of farm work alone and take charge of other men when necessary; usually will be required to work under a foreman's direction; pay fair for right kind of a man. Address Willard P. Holmes, New England Building, Kansas City, Mo., or Parkville, Mo.

YOU ARE WANTED FOR GOVERNment positions. $80 month. Write for list of positions open. Franklin Institute, Dep't. G 90, Rochester, N. Y.

REAL ESTATE.

BUY OR TRADE WITH US. SEND FOR list. Bersie Agency, Eldorado, Kan.

TO SELL YOUR PROPERTY. WRITE C. C. Shepard, Minneapolis, Minn.

WANT FARM IN EXCHANGE FOR CITY property; rent $600 year. Other trades. Real Estate Exchange, Coffeyville, Kan.

WESTERN KANSAS' FREE LIST OF 35 farms, raw and improved. W. A. Reinecke, Heiser, Kansas.

FOR SALE OR TRADE, 12 ACRES LOcus Grove, in Garfield Co., Okla. Write A. T. Jones, Sentinel, Okla.

WILL TRADE A GOOD FARM FOR stallions, jacks or other horses. Box 42, Formosa, Kan.

320 A. IMPROVED TILLABLE LAND; 3 miles from town. Price $35 per acre. Address Box 9, Bushland, Potter Co., Texas.

FARM LOANS MADE IN ANY AMOUNT from $500 up, at lowest rates and on most favorable terms. Hetzer Realty & Loan Co., Columbian Bldg., Topeka, Kan.

FOR SALE—40 ACRES OF FINE LAND, one mile south of the city of Topeka, Kan., for further information write the owner, J. W. Owen, R. 2, Topeka, Kan.

CENTRAL MINNESOTA—100 IMPROVED farms, low prices, easy terms, "Good Title Always." Write for list. Mention this paper. C. D. Baker, Fergus Falls, Minn.

REALTY SALES ASSOCIATION, DREXel Building, Philadelphia, sells property successfully no matter where located. Send description.

300 ACRES, PRAIRIE PASTURE LAND, slightly rolling; two everlasting springs; one-third good farm land; no improvements. Priced to sell at $15 per acre. Lock Box 431, Pryor, Okla

OREGON INFORMATION — FOR AUthentic detailed information concerning fruit growing, dairying, general farming, manufacturing and business opportunities in any part of Oregon, address Portland Commercial Club, Room 642, Portland, Ore.

80 ACRES, 2 MILES FROM GOOD small town; all fenced; 60 a in cultivation; 20 a. pasture; good 5 room house, large new barn; all kinds fruit. Price only $3,200.00, good terms; will give possession. J. D. Kramer, Independence, Kan.

CUBA—MOST PRODUCTIVE SOIL. DElightful and healthful climate. Ample rainfall. Cheapest transportation facilities to the world's greatest markets. Particulars free. Sanderson, 35 Palace Building, Minneapolis.

FARMS WANTED—DON'T PAY COMmissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties FREE. American Investment Association, 43 Palace, Minneapolis, Minn.

WILL EXCHANGE FOR IMPROVED land near Anthony, Kan., a clean $10,000 stock of hardware and implements; also a $20,000 stock of furniture and undertaking goods; each business well established and prosperous; no inflated valuations considered. Smithson-Holaday Realty Co., Anthony, Kan.

ELLIS COUNTY WHEAT FARMS—400 acres, 4 miles from Hays City, 170 acres under cultivation and in crop, balance pasture; good house and other buildings; good water; pasture all fenced. Price $34 per acre. Terms. This lies in a thickly settled portion of county, principally Germans. Casper Klaus, Munjor, Kan.

TEXAS GULF COAST COUNTRY — 4,000 acres, formerly part of Famous Taft Ranch, at county seat, Sinton, within 4 miles of Bay. Soil and climate unsurpassed. Heart of rain belt; plenty good water; depot within 20 minutes' drive of farthest point. Land produces $100 to $300 per acre. For particulars write J. Y. Conn, Box 46, Cin., O. Good agents wanted.

FINE STOCK FARM—320 acres, 5 miles from Waldron, on good road, three sets of buildings, 5 wells of good water, 2 ponds, 80 acres in timber, 140 acres in pasture, 100 acres in cultivation. 240 acres fenced and cross fenced, 200 bearing fruit trees, only 1 mile from good school; plenty ow open out range. Price $3600; one-half cash, balance 3 years. I have other farms for sale. Hubert J. Hall, Waldron, Ark.

2600 ACRES ON PECOS RIVER, NEW Mexico, nearly all valley land along the river. This is a fine ranch proposition ,as it controls several miles of river front and a fine spring of water. Price $4.50 per acre; can leave $5,000 on land short time. 450 acres Kansas river bottom, 150 acres fine land, other not so good, but very cheap at $20,000; can get a mortgage long time for $10,000. Roudebush Investment Company, Columbian Building, Topeka, Kan.

FREE EXCURSION TO PECOS PALIsades. The Sunshine Valley of Texas. Get away from the cold winter and visit the wonderful new Imperial Irrigation Project in lower Pecos Valley, Texas, just ahead of Orient railway construction. Rich, fertile fruit and alfalfa land, with perpetual water rights. Many Northern farmers moving in. Irrigation system finished. I will sell you a $60 lot with perpetual water right in any of three new towns, in the irrigation project, and furnish you free railroad and sleeping car expeses from Kansas City to Pecos Palisades and return. Give you a 200-mile auto trip and free hotel accommodation while inspecting the project. Excursion will be personally conducted. An enjoyable education and profitable trip. Write or wire for reservation. Party leaves Kansas City, March 7th. W. R. Draper, 924 Baltimore Avenue, Kansas City, Mo.

FARM WANTED.

WANTED TO RENT—QUARTER SECtion grain farm with imporvements; can give best references; farm in Osage or adjoining counties preferred. William Matney, Rt. 1, Scranton, Kan.

POULTRY.

PURE MAMMOTH BRONZE TURKEY toms for sale. Harry Chapel, Simpson, Kan.

BLACK LANGSHANS, COCKERELS $1. Mary McCaul, Elk City, Kan.

INDIAN RUNNER DRAKES, $1.50. White Holland toms. Bernard Reilly, Gilman, Ill.

EGGS FORM KELLERSTRASS STRAIN S. C. White Orpingtons; 15 eggs, $3. Harvey R. Brown, Lock Box 441, Highmore, S. D.

BARRED ROCK COCKERELS; LARGE boned; deep, even barring; from prize winning stock. Mrs. C. B. McCorkle, Albion, Neb.

DOGS.

GOOD WOLF HOUND PUPS FOR SALE. Geo. Vernon, R. 2, Simpson, Kan.

SEVERAL BULL PUPS FOR SALE—$5 and $7. H. L. Ferris, Osage City, Kan.

FOR SALE — FOX, COON AND WOLF hounds; sent on 10 days' trial. Owen Smith, Altamont, Ill.

TWO LITTERS OF PEDIGREED COLLIE puppies; ready to book orders at once. Victor Hargrave, Richmond, Kan

SCOTCH COLLIES—PUPS AND YOUNG dogs from the best blood in Scotland and America now for sale. All of my brood bitches and stud dogs are registered; well trained and natural workers. Emporia Kennels, Emporia, Kan. W. H. Richard.

SEEDS AND PLANTS.

MARION SEED WHEAT $1.25 PER bushel. M. G. Blackman, Hoxie, Kas.

1,000 BU. BOONE CO. SEED CORN from college seed, A. J. Nicholson, Manhattan, Kan.

SEED CORN—HILDRETH YELLOW Dent; originator, breeder, grower. C. E. Hildreth, Altmont, Kansas.

GOOD ALFALFA SEED FOR SALE—$10 bu., my raising. Sample sent on request. J. H. Smith, Jr., Sterling, Kan.

WANTED—CANE SEED, KAFIR CORN, millet, popcorn, clover, timothy, etc. Send samples. Hays Produce Co., 24-26 N. Kansas Ave., Topeka, Kan.

SPECIAL OFFER—100 AM. ARBOR VItae 8-12 in., 100 Norway Spruce 8-12 in., $2.50. Evergreen Nursery Co., Sturgeon Bay, Wis.

250 STRAWBERRY PLANTS $1—THREE best varieties, Dunlap included; nursery stock; wholesale list. John F. Dayton, Waukon, Iowa.

PACKET OF FLOWER SEEDS AND AN aluminum collapsible cup for 15c in coin or 20c in stamps. Address, Lock Box 3634, Kensington Station, Philadelphia, Pa.

SPELTZ (EMMER) GROWN FROM northern seed; best ever raised; Boone Co. and Hiawatha Dent seed corn. If you buy of me and are not satisfied with your purchase, I refund your money. E. E. Hazen, Hiawatha, Kan.

REGENERATED SWEDISH SELECT oats. Heaviest yielding oats in America. Guaranteed free from smut; 75c per bu., graded, sacked, loaded C. R. I. or Mo. Pac. H. A. Bushby, Rydal, Republic Co., Kansas.

SEED OATS FIND READY BUYERS when advertised on this page. They sell for cash in hand, for your price, when you tell here what you have. The cost is low. See top of this page.

SEED CORN — HAYNES' IMPROVED Boone County White, pure bred, tipped, hand shelled, fanned, graded, hand picked, highest yielding strain. Two bushels or more $1.40 per bushel. Catalogue free. J. F. Haynes, Farmer Seed Corn Grower, Grantville, Kan.

PURE BOONE CO. WHITE SEED CORN. Raised on the best Kaw Valley land; tipped, shelled and graded. My corn is extra fine in quality and I will guarantee it. If not satisfied will return your money. Price, shelled, $1.65 per bu.; ear, $2. Reference: Shawnee State Bank. J. W. Cochran, Silver Lake, Kan.

HORSES AND MULES.

FOR SALE—3 PERCHERON STALLIONS registered. George Bevan, Scranton, Kan.

REGISTERED SHETLAND PONIES FOR sale. The pure Shetland pony is the child's pony. Correspondence solicited. N. E. Stucker, Ottawa, Kan.

FOR SALE—9 REGISTERED PERCHeron stallions, 2 to 6 years, black and bays; also a few mares in foal; priced to sell. J. H. & A. C. Tangeman, Newton, Kan.

FOR SALE OR TRADE—ONE HIGH grade Percheron stallion; will sell cheap if sold in 30 days. Address G. A. Gosch, R. 6, Sterling, Kan.

STALLION FOR SALE—ONE BLACK Percheron, registered in the Percheron society of America. One registered English Shire. Both rising three good heavy boned colts. James Auld, Wakefield, Clay Co., Kansas.

FOR SALE OR EXCHANGE — FOR Shetland mares or Percheron stallion, a beautiful Arabian stallion 16½ hands, sure, and strong breeder, 12,000 lbs, snow white, pink skin, good saddler.. Ronald Smith, R. 1, Box 37, Wichita, Kan

FOR SALE—ONE IMPORTED BLACK Percheron stallion 4 years old; one trotting bred stallion 5 years old; two black Tennessee jacks with white points, 5 and 7 years old, 15½ and 16 hands high; they are sure and prompt; can show colts. Also four young jacks for sale and 14 head of 3-year-old mules. Meet trains at Chase or Raymond; write or phone when coming. J. P. & M. H. Malone, Chase, Rice Co., Kansas.

CATTLE.

POLLED JERSEYS — CHAS. S. HATfield, Springfield, Ohio.

A JERSEY BULL CALF, ELIGIBLE TO register. Price $25. Harry Schmidt, R. 2, Tescott, Kan.

FOR SALE — D. S. POLLED DURHAM bulls of different ages and good individuals. C. M. Albright, Overbrook, Kan.

FOR SALE—BLACK JACK 8 YEARS old; 16 hands high; will sell cheap if sold in 30 days. C. H. McCormick, Zeandale, Kan.

PUBBLIC SALE OF 50 HEAD OF HIGH grade Holstein cows and heifers, most of them to be fresh this spring. Also 13 horses and mules. One trotting stallion and good jack. Date Feb. 20, 1911. H. B. Browning, Linwood, Kansas.

MILKING SHORTHORNS, ONE BULL 13 months old and six heifers; descendants of Florence Aldree 6th; record 494; 90 pounds butter in 365 days; for sale by G. Regier, Whitewater, Kan.

MISCELLANEOUS.

"CONCRETE ON THE FARM"— AN ILlustrated book telling farmers how to do they get results. Write Ottawa Metal 25c to W. H. Baker, Wadsworth, Ohio.

Sign Co., Ottawa, Kansas.

USE METAL WIRE FENCE SIGNS, their own cement work successfully. Send

A Sink in the Kitchen.

A Missouri reader states that every farmer ought to have at least one labor saving device in the kitchen for every one he uses on the farm. The one most needed in the average kitchen is the sink. He made a sink for his own kitchen with satisfaction to his wife and surprise to himself because of the small amount of labor and expense involved. Here is the bill for material:

One galvanized wrought iron kitchen sink, 18 by 30 inches, with 1½ inch iron pipe connection, $2; trap made of three 1½ inch elbows at 13 cents each, 39 cents; 2 short nipples at 5 cents each, 10 cents; 2½ feet of 1½ inch pipe for connections, 25 cents; 1½ inch elbow, 13 cents; 3 lengths of galvanized rain conductor pipe for drain near house, 90 cents; 267 feet of lumber for balance of drain, $4.50; freight, $1; total, $9.27, and the work all done by himself.

Conservation of National Resources.

The National Grange has, during the past year, cooperated with the various agencies working for the conservation and development of our forests, mineral lands and water powers, and has taken action to inform our national legislators as to the attitude of the farmers on this question.

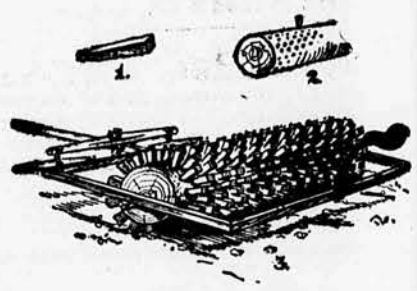
In an address prepared for the National Conservation Congress, held at St. Paul, Minn., I took occasion to impress upon the delegates to that convention the overshadowing importance of conserving the fertility of our farm lands, from which so great a proportion of the country's wealth is drawn, and urged that this should be made a prominent feature of the conservation movement. The farmers are also vitally interested in securing the adoption of legislation controlling the use of the public lands, forests, minerals and water-power sites, in the interest of all the people, and should exert their influence in favor of the necessary action by Congress and the state legislatures.

The best farm implement is a wife who knows how to manage you, and the best crop is the boys and girls. See that they are cultivated.

A Novel Subsurface Packer.

At this time of year when the mind of the farmer is filled with plans for the ensuing cropping season, and he is studying ways and means, the question of dry farming methods has received more or less attention. Out of these dry farming methods has grown a demand for certain special implements, with which to do the required work in a better manner. One of these implements is the subsurface packer, with the general appearance and operation of which our readers are familiar.

One of our ingenius friends, however, sends us a suggestion for a subsurface packer which has the merit of being capable of home manufacture and of doing efficient work, although it may not be so pleasing in appearance as the packers with which we are familiar. The accompanying cut will show the idea. A small log is dressed out and mounted as would be the case if it were to be used for a wooden land roller. In this log are bored a series of holes with a two inch auger, so arranged that they will alternate with each other. Sharp pieces

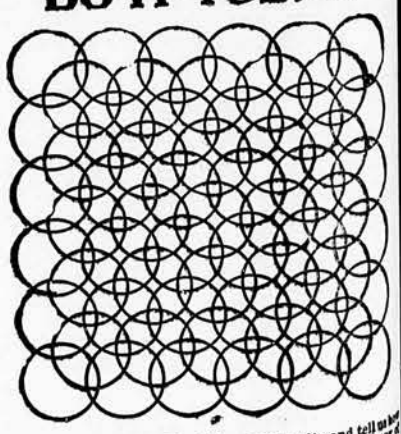


of 2 by 4 studding are then cut to a uniform length and one end of each is dressed down roughly with the hatchet so it may be driven into the auger hole. When these pegs are all driven into place the circumference of the implement is considerably enlarged, but the draft is not increased. Our drawing shows the pegs rather too close together as space must be left between them so that they will clear of clods and earth. The argument used in favor of this type of subsurface packer is that it has the same effect on the soil as would the tramping of cattle over it, though it is done much more regularly, and the compressed portions are sufficiently close together to attain the desired result and prevent blowing of the soil. The farmer who is handy with tools could easily construct one of these packers, and KANSAS FARMER would be glad to hear of success attained by its use.

Many experiences have been had in western Kansas and many more are still due to the farmers who live there. Of one thing they may be certain. The dairy cow will place them beyond the reach of crop failures and shortage of pocket money. There never was a time in the history of the state when plenty of cheap feed was not grown in that section of the state, and there has not been a time in recent years when there was not a strong market for dairy products at every railroad station in the west. If the western farmer will call the dairy cow to his aid, he will find that he has made the best investment of his life and his section of the state will prosper anew.

Count the Rings

DO IT TODAY



Count the rings in this picture and write and tell us how many you count. We will at once send you a free copy of our splendid illustrated magazine, containing many fascinating stories and departments. We do this so you can see what a fine magazine we publish. If you wish we will also send you our great prize offer of a $200 diamond ring and 200 other fine prizes. Answer this advertisement today. People's Monthly Co., 81 Popular Bldg., Des Moines, Ia.

BARGAINS IN LANDS

TWO EASTERN KANSAS LAND SNAPS

To be cut up and sold: 2270 acres creek bottom and slope land; nearly all good farm land; within driving distance of Topeka. Can be bought from $25 to $50 per acre. Easy terms. If interested write
BALDWIN & CATE, Manhattan, Kansas.

COMF TO FORD COUNTY AND GET RICH

Come to the famous Ford County Wheat Belt, where two crops pay for the land. If I do not show you that this is true I'll pay your fare for the round trip. Best of climate, soil and water. Descriptive price list upon application.
G. L. PAINTER & CO., Dodge City, Kansas.

CATTLEMEN

200 acres meadow and pasture land, for sale. Near Toronto, Kan. $15 per acre.

ALBERT COE,
Yates Center, Kans.

BEAUTIFUL 110-ACRE FARM FOR SALE.

A great bargain for the next 20 days. Located 1½ miles southeast of Lawrence on good road; the entire farm can be cultivated and lies good. About 40 acres in cultivation now, balance has been changed to blue grass and some hay land. Has a 7 room house, very fair condition, and small barn. The improvements are not the best, but you cannot find better land. A car line between Kansas ity and Lawrence is surveyed not far from this farm. If you want a good farm and get possession before the first of March, and a place that will make and save you money on your investment as well as a good place to live it will pay you to investigate at once. Price of this farm for a short time is $90 per acre. See O. H. McQuary, Jr., Personal, of the O. H. McQuary, Jr. & Co., at Rooms 1-2 Leader Bldg., Lawrence, Kansas.

1120 ACRE COMBINATION RANCH.

25 head horses and colts above average, and one registered Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Artesian Valley at a great bargain. WM. MILLER, Meade, Kan.

IF YOU ARE INTERESTED IN CENTRAL KANSAS, WESTERN KANSAS OR COLORADO LAND FOR A HOME OR INVESTMENT, STATE YOUR CHOICE TO C. C. WALLACE, BROOKVILLE, KANSAS.

YOU'LL LIKE LINN COUNTY, KAN.

We have abundant coal, wood, natural gas and good water. The land raises magnificent crops of alfalfa, timothy, clover, bluegrass, oats, corn and wheat. R. F. D. and phone at your door. Price $20 to $80 per acre. List free. A. E. ROOT, Pleasanton, Kan.

FOR SALE—General merchandise, small town; excellent opportunity for live man. Address State Bank of Cummings, Cummings, Kan.

BUY OF OWNER — SAVE COMMISSION.

A nice valley farm of 320 a., 3 mi. of Fredonia, county seat, best gas town in state, all tillable, 110 a. in cultivation, balance in meadow and pasture, good 5 room house, big barn and other improvements, free gas, also income from gas wells on farm. telephone and R. F. D. Easy terms. Buy of owner and save commission. A snap at $42.50. Must sell. Write
LOCK BOX 807, Fredonia, Kansas.

IF YOU MEAN BUSINESS and have real estate and merchandise of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire I have several very attractive propositions to offer you for a home or investment; am doing a general exchange business. Carl G. Anderson, Athol, Smith Co., Kansas.

READ THIS BARGAIN

160, Anderson county, Kansas, joining small town, 120 cult., 30 timothy and clover, 7 room house, barn, etc. Price $8,000. 160, 2½ miles of Welda, Kan.; 60 cult., balance meadow; all tillable; no buildings. $5600.
SPOHN BROS., Garnett, Kansas.

MARSHALL CO., KANSAS, LAND — 480 acres, 3 miles from town, 160 acres under plow, 70 acres in alfalfa, balance good limestone subsoil pasture; 9 room house, 10 horse barn, stone cattle barn 30x140, some timber, and elegant spring. No better stock farm in the county; good orchard. $55 per acre. Terms to suit purchaser. E. F. Dewey, Blue Rapids, Kan.

LIVE AGENT WANTED

In your locality to assist in selling corn, wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining counties. Write for proposition on our own ranches.
FRIZELL & ELY, Larned, Kansas.

ANDERSON COUNTY—100 acres, 60 acres in cultivation, balance pasture and mowland, fine soil, no rock. A new 9-room 2-story house, cement cellar and walks. Good barn and other improvements; half mile to R. R. town. $65 per acre. A snap. Write for full description.
GEORGE W. ILER & SON, Garnett, Kan.

SAY Buy a farm or build an agency.
BUCKEYE AGENCY, Agricola, Kan.

COME to Butler Co., Kan., for a home, 40 to 720 a., prices right. Benton Land Co., Benton, Kan.

SOME splendid bargains in Famous San Luis Valley. Cline Land Co., LaHarpe, Kan.

GET OUR BOOK OF 500 FARMS and properties everywhere to trade. Graham Bros., Eldorado, Kan.

MONTGOMERY COUNTY LAND—Write today to Foster Bros., Independence, Kan., for list and map. Oldest realty company in southeast Kansas.

I'VE FOUND IT—480 a. farm, 300 a. creek bottom land, 200 a. first class alfalfa land, 100 a. choice meadow, splendid pasture, plenty of timber for posts and fuel, living water in creek, don't overflow, school on farm, 9 miles of Spearville; improvements poor. For quick sale $25 per acre; good terms; no trade.
STINSON & SHELDON, Spearville, Kansas.

140 ACRES JOHNSON CO., KAN.

Every foot tillable;45 acres timothy and clover, 10 acres in wheat, 30 acres English blue grass; never failing spring; close to school; only 2¾ miles to railroad and 33 miles to Kansas City.
Nothing finer in Eastern Kansas. Immediate possession. Price $100.00 per acre.
C. H. CHANEY, Spring Hill, Kansas.

EASTERN KANSAS FARM BARGAINS.

80 acres, 2 miles from Osage City, 40 acres under cultivation, 1 acre orchard, balance native grass, 5 room house, good cellar, barn for 6 horses with loft, corn crib, 2 hen houses, and other out buildings, plenty of good water, close to school, R. F. D and phone, price $4,000.
J. C. RAPP & CO., Osage City, Kas.

McPHERSON COUNTY, 160 ACRES.

Five miles of McPherson, 7 room house, barn for 10 head. 140 in cult., 1 mile to school, 1½ to station, R. F. D. and phone. Price $13,500. Terms.
BREMYER & BRUBAKER, McPherson, Kansas.

160 ACRES

level second bottom, 4 miles from county seat, 100 acres under plow, 15 acres alfalfa, running water fed by spring, 5 room house, barn for 6 horses, large hay shed and other good improvements; good bearing orchard. Price $65 per acre; easy terms. Joseph D. Ryan, Abilene, Kan.

THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed education, 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.

FOR SALE

1,700 acres of my 4,400 acre ranch in Kearney county, Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alalfa land, 60 acres in alfalfa; all fenced with three and four wires; 5 room frame house stone basement; barn 25x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price $20 per acre net to me.
H. H. SMALLEY, Springfield, Mo.

IMPROVED Anderson county corn, wheat, oats and alfalfa farms at $40 to $60 per acre. Write for our free list. Also good exchange propositions. Rice-Daniel Land Co., Garnett, Kan.

WALLACE COUNTY

320 acres, raw land. 4 miles south of Sharon Springs, Kansas. $10 per acre. Address Box 15, R. F. D. 1, Bushton, Kan.

$15 AN ACRE Easy Terms
NEAR GULF COAST REGION
On the Kansas City Southern R. R. at Pickering, Vernon Parish, La. Lands that produce big crops. A natural stock, dairy, and poultry country. Forages grown even in winter. Soil especially adapted to early truck, fruits, and great variety of crops. Good markets. Farm buildings not costly; lumber plentiful. High altitude, 50 inches annual rainfall, perfect drainage, pure water. Invigorating and healthy climate. Write for free booklet.
J. D. LABRIE, General Land Agent.
568 Keith & Perry Bldg., Kansas City, Mo.

MONTGOMERY COUNTY LAND — Write today to Foster Bros., Independence. Kan., for list and map. Oldest realty company in southwest Kansas.

FORCED SALE TO SETTLE ESTATE

160 acre improved farm, Johnson Co., Kansas, 25 miles from Kansas City, 3 miles from Bucyrus, 3½ miles from Spring Hill, all good, smooth and tillable; fine corn, wheat and tame grass land; good residence and outbuildings; orchard and grove facing south; one-half mile to school; on main road; R. F. D. and phone; well watered. Price $100 per acre. $4000 cash, balance can be left in farm at 5 per cent annual interest; $4000 for 4 years; $8000 10 to 15 years. Must be sold before March 1.
U. S. REALTY CO., Spring Hill, Kansas.

WHAT have you to trade for lands or city property? Hale, Coffeyville, Kan.

LEAVENWORTH county farms. Send for list. J. C. Lanning & Co., Tonganoxie, Kan.

FOR SALE—Eastern Kansas black prairie corn, alfalfa and clover farms. Some exchanges. Write today for free list and map. G. T. KINSEY, LeRoy, Kan.

IF you want a bargain write for free list of Anderson county farms. You want a trade list with us.
Holcomb Realty Co., Garnett, Kan.

EASTERN KANSAS.

160 joining a live town; fair buildings; all can be farmed. Only $75 per acre if sold Feb. 10. Richmond Land Co., Richmond, Ks.

NESS COUNTY, KANSAS.

If you want wheat land, if you want alfalfa land, if you want pasture land, if you want improved land, I've got it. If you will write me just what you want, I will find it for you at prices that can't be discounted.
J. G. COLLINS, Ness City, Kansas.

SEVERAL good farms to trade for stocks of merchandise and land to exchange for city property. Land in the fertile Gulf Coast of Texas, $20 per acre, on payments; fine climate and farmers get rich in a few years. We go down twice a month. Write me for particulars. Henry G. Parsons, Lawrence, Kan.

IF YOU are in the market for the best farms in Southeast Kansas at the very lowest prices, see us. We handle nothing but the best. We are also handling some very fine fruit, grain and stock farms in Washington Co., Ark. Our customers our references. Smeltzer & Co., Iola, Kansas.

JOHN W. BAUGHMAN
LIVE AGENTS WANTED
PLAINS KANSAS
to sell town lots in Best Little City in Southwestern Kan. Prices $12.50 to $50. Easy monthly payments. Best selling proposition ever placed on the market. Good commissions. No Experience Necessary. Full instructions. You can sell them. Write me today. JOHN W. BAUGHMAN, Plains, Kansas.
PLAINS TOWN LOTS

A FINE FARM HOME.

Consisting of 160 acres, 60 acres in alfalfa, 65 acres in natural pasture, balance in a high state of cultivation, all fenced and cross fenced, good orchard, all kinds of fruit; has never failing running water and fine shade; large 10 room residence heat by steam, 2 large bath rooms, porcelain bath tubs, wash bowls and toilets, hot water and cold water and rain water piped to all parts of the house with sanitary sewer; water pumped by gasoline engine to all parts of the residence and buildings to wherever it is needed, and lighted with acetylene light plant; large hay barn and cattle barn, horse barn and hay mow, granaries and corn crib, large inplement shed and a row of fine box stalls, large open cattle shed and hog house combined; buildings all nearly new and in good repair; located near a good railroad town in Sedgwick county and twenty miles from Wichita. Price $17,500. Terms.
EDWIN TAYLOR REALTY CO.,
107 S. Main St., Wichita, Kansas.

CORN!

Will make 65 bu. to the acre on every acre of this 160 acres of rich, black, limestone soil. No rocks. Big, fine house and barn, beautiful location, 1½ miles of town. Never failing stock water. No better farm in Kansas. $60 per acre.
B. H. DUNBAR, Tyro, Kansas.

A HOME AND MONEY MAKER.

160 acres all level; 120 in wheat, one-third goes; one mile to railroad town; six room house, good barn, new, $7,800. One-half on time. Investigate this. Send for our large list of farms.
BROWN, GRANT & WALTER
Kingman, Kansas.

CHOICE FARM BARGAINS

I want some straight buyers for a few choice 80, 120, 160 and 320 acre farms in Central and Eastern Kansas. I have some good combination stock farms and ranches that are good bargains. Write me describing fully what you want. Have some large places to trade for smaller.
J. M. McCOWN,
516 Commercial St., Emporia, Kansas.

CAN YOU BEAT THIS?

120 acres, 3 miles to town, 8 miles from Parsons, new 5-room house, new barn, land lays just rolling enough to drain, fenced with hog wire on three sides, nearly all timothy and clover; some native pasture. This is a bargain at 45 per acre.
A. P. ROSA,
Galesburg, Neosho County, Kansas.

100—CHOICE DICKINSON AND CLAY CO. FARMS—100

80 acres 3 miles from town, 70 a. under plow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings. $2000 cash; rest to suit; 25 a wheat included. Write for list. J. J. Bishop, Wakefield, Kan.

IMPROVED FARMS in S. W. Kansas and N. W. Oklahoma, $10 to $25 per acre. Write Moore & Falls, Liberal, Kan.

NEW YORK FARMS.

Well improved and for sale now at $40 to $60 per acre; grow biggest and best standard crops. For free select list ask McBurney, Stocking & Co., 279 Dearborn St., Chicago, Ill. No trades.

A BARGAIN. 160 acres in Wilson Co. Fine alfalfa, corn and wheat land. No better land in the county, $2,500. Improvements, $50 per acre. Land like it sells in other parts of state at $100. Come and see thi sand other tracts.
M. T. SPONG, Fredonia, Kansas.

425 ACRES ATCHISON COUNTY, KANSAS.

One mile good shipping point and school; well improved, all good, tillable land in high state cultivation; never been rented; one of the best stock farms in Northeastern Kansas. Price $85; terms.
DRURY & WHITE, Atchison, Kan.

FOR SALE—193 a., 6 mi. Garnett, 3 mi. Haskell, on Mo. Pac. R. R., 120 a. valley and slope land in cult., balance rough pasture with limestone rock on 1-3 of it, well fenced and cross fenced, new 6 r. house; splendid barn, 32x42; 2 good wells; family orchard. A snap at $5,500. New list free. SEWELL LAND CO., Garnett, Kan.

TEXAS LAND

A FORTUNE IN 40 ACRES

An irrigated forty acres in the Lower Pecos River Valley of Texas will provide a fortune for any family as well as a model home, in an ideal, all the year around climate. It will pay 100 per cent annually on present cost of land, including water rights. If interested, write at once to
THE HEATH COMPANY
GENERAL AGENTS,
109 WEST SEVENTH ST., TOPEKA, KAN.

OKLAHOMA LAND

GET A HOME.

160 acre farm 2½ miles of R. R. town and 5 miles of county seat, 10 a. in cultivation, 40 a. pasture, 10 a. mow land, 6 a. orchard, 5 a. alfalfa, good 6 room house, small barn and granaries, all fenced, 2 fine wells of water, fine grape vineyard, ¾ mile to school, farm drains well. Price $7,000. Immediate possession. One-half cash will handle this. Write for our land list.
BATTEN REALTY CO., Medford, Oklahoma.

IMPROVED corn, clover and bluegrass farms 48 miles south Kansas City. $50 to $75 per acre. Jot M. Wilson & Son, Harrisonville, Mo.

Virginia Farms and Homes
FREE CATALOGUE OF SPLENDID BARGAINS.
R. B. CHAFFIN & CO., Inc., Richmond, Va.

SPLENDID CROPS

in Saskatchewan (Western Canada)

800 Bushels From 20 Acres
of wheat was the thresher's return from a Lloydminster farm in the season of 1910. Many fields in that as well as other districts yielded from 25 to 35 bushels of wheat to the acre. Other grains in proportion.

Large Profits
are thus derived from the FREE HOMESTEAD LANDS of Western Canada.

This excellent showing causes prices to advance. Land values should double in two years' time.

Grain growing, mixed farming, cattle raising and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160-acre pre-emptions at $3.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest; wood, water and building material plentiful.

For low settlers' railway rates and illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immig., Ottawa, Can., or Can. Gov't Agt. (62)

J. S. CRAWFORD,
125 West 9th Street
Kansas City, Mo.

COLORADO LAND

KIOWA COUNTY, COLORADO,

corn, wheat and alfalfa lands $8 to $15. Homestead relinquishments $250 up. Folder and copy of the Homestead Laws sent free. A few 160-acre homestead tracts under prospective irrigation yet. THE WESTERN REALTY CO., Eads, Colo.

HORSES AND MULES

DUNHAMS' PERCHERONS

For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for catalogue, illustrated from life.

W. S., J. B. & B. DUNHAM
WAYNE, ILL.

JACKS

I have on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from 12 to 14 inches below the gamble and from 11 to 13 inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than other importers. Prices the lowest.

I have also forty big imported mares, all in foal, for sale.

W. L. DECLOW,
Cedar Rapids Importing Farm,
Cedar Rapids, Iowa.

Register your jacks in the American Jack Register. Write for blanks.

KENTUCKY MAMMOTH JACKS.
We have located at Hutchinson and will be at the fair grounds. Our first shipment has just arrived. Write for circular or come to see the best barn of jacks in the West.
J. F. COOK & CO.,
John C. Kerr, Manager,
HUTCHINSON, KANSAS.

EIGHT HEAD OF JACKS FOR SALE.
Yearlings to 6 years old; 5 good mule jacks from 14¾ to 15½ hds., jack measure; very smooth bodied; priced to sell. Come and see them.
G. W. OVERLY,
McCune Crawford Co., Kansas.

One of the largest number of large bone and smooth Jacks in the West; 14 to over 16 hands high; prices reasonable. 40 miles west of K. C. on U. P. and Santa Fe Rys.

AL. E. SMITH,
Box A, Lawrence, Kan.

JACKS AND JENNETS
20 large Jacks from 2 to 7 years old.
23 head extra good Jennets priced right. Come and see me.
PHIL WALKER,
Moline, Elk Co., Kansas

FIFTY JACKS AND JENNETS.
Every one a Black Mammoth 14½ to 16¼ hands high, 2 to 7 years old. I will show you one of the best bunches you ever saw.
ED BOEN,
Lawson, Missouri.
Lawson is 40 miles northeast of K. C.

J. E. CLARY & SONS

PLEASANT RIDGE STOCK FARM, Sheridan, Mo. Breeders of high quality jacks. Only high class breeding stock offered and all statements in reference to stock guaranteed and we always stand for a square deal. When you buy from us you get the best. A number of very fine serviceable jacks for sale worth the money. Write or come and see us. Watch for sale date.
J. E. CLARY & SONS, Sheridan, Mo.

JACKS—An extra fine 4-year-old jack for sale; black with white points; extra heavy bone. One 2-year-old Percheron stallion, 17 hands high, wt. 1500. Also Hampshire gilts.
G. S. LAWSON, Ravenwood, Nodaway Co., Missouri.

JACKS AND JENNETS.
Five extra fine jacks for sale, one 5 years old, one 4 years old, two 2 year old and one yearling; also three extra fine jennets. Bargains if taken at once.
F. S. BURGESS, Dearborn, Mo.

FOR SALE—15 registered Black Mammoth Jacks. Won first premiums on jacks, first on jennets and first on mule colts at Hutchinson State Fair, 1910.
H. T. HINEMAN,
Dighton, Kansas.

Choice registered Mammoth jacks 15 to 16 hands high; good individuals with plenty of bone and vigor and ready for service. Also one registered 2-year-old black Percheron stallion. **Bruce Saunders, Holton, Jackson Co., Kan.**

S. B. UTZ, ST. JOSEPH, MO.

Breeder of high class jacks and jennets. Six serviceable jacks, some 2-year-olds, jack colts and jennets for sale; all good colors. Residence phone, Bell South 762-4 rings; office, **both phones south 125.**

REGISTERED JACKS AT PRIVATE SALE.
I make a specialty of the large, heavy boned, thick bodied, well bred kind; 35 to select from. Write for catalog.
G. M. SCOTT.
Route No. 2,
Rea, Missouri.

ANGUS CATTLE

PARKER PARRISH & CO.

HUDSON, KANSAS.

Pure Blood Angus Cattle

Herd bulls: Japan Ito, Envoy 2d, Evener 2d, Jelt's Hale Lad, 400 in herd, Violet's best blood; can ship on Mo. Pac., Santa Fe or Rock Island. Stock for sale at all times.

80 Angus Bulls

OF SERVICEABLE AGE.
Herd Headers and Range Bulls. Many of them by Champion Ito.
SUTTON FARM, Lawrence, Kan.
500 HEAD IN HERD.

ALFALFA LEAF SHORTHORNS

Young stock for sale. Also Silver Laced Wyandotte eggs for sale.
JOHN REGIER, R. 1, Whitewater, Kansas.

POLLED DURHAM CATTLE

BELVEDERE X2712-195058

Son of the $1,500 Grand Victor X1635 150865 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kansas.

JERSEY CATTLE

LINSCOTT JERSEYS

Offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept.
R. J. LINSCOTT, Holton, Kansas.

Jerseydale Stock Farm

Carthage, Mo.

I am offering some very choice bull calves sired by "Tulips Mon Plaisir" 61923, out of richly bred imported cows. Calves range in age from three months to seven months. If you are looking for "Golden Lad" blood you will find these calves close up. Price $75 delivered to any part of Kansas.
PHIL HANNUM, JR., Owner.

GOLDEN RULE JERSEY HERD.
Headed by Ooneri's Eminent by Eminent Rosette, tracing to Golden Lad on sires, and out of the noted cow, Financial Queen. The dam of Ooneri's Eminent was the $1000 cow Ooneri 2d by Gueonon's Golden Lad 62168.
JOHNSON & NORDSTROM,
Clay Center, Kansas.

TO MAKE ROOM FOR WINTER I WILL SELL
20 HEAD REGISTERED COWS
Forty head to select from; also a few bull calves.
J. B. SMITH,
Beatrice, Nebraska.

FINE JERSEYS FOR SALE.
I have ready for service three sons of Merry Maiden's Golden Lad and one son of Susan's Eminent out of cows that will make two pounds of butter per day. I am also offering a few cows and heifers at reasonable prices. These are bred to Oxford Masterpiece.
W. N. BANKS, Independence, Kansas.

SHORTHORN CATTLE

Tomson Shorthorns

Herd Bulls—Barmpton Knight and Gallant Knight's Heir. A very choice lot of young bulls and heifers for sale. Several are half brothers or sisters to our grand champion heifer, New Year's Delight. Come and see our herd or write your wants.
TOMSON BROS., Dover, Kansas.
R. R. Station Willard, on R. I., 16 miles west of Topeka.

Humboldt National Stock Farm

Shorthorn cattle, large type Poland China hogs. 10 spring boars and gilts priced right. Write me your wants. I meet parties at trains. We can do business. Come and see me.
H. F. PELPHREY & SON,
Humboldt, Kansas.

SHORTHORNS

Bulls, cows and heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd.
C. H. WHITE, Burlington, Kansas.

NEW BUTTERGASK SHORTHORNS.
Best of breeding and individuality, representing such families as Imp. Bessie 51st, Brawith Buds, Daybreaks and Floras for sale now. The champion bull at the last Mitchell Co. State-Wide Fair; a grand good bull; 1 year old; is related to all our cows or he would not be for sale. Write for description and price. **MEALL BROS., Cawker City, Kan.**

Pearl Shorthorns

Carload good, big, strong bulls, 8 to 20 months old. Priced right.
C. W. Taylor, Enterprise, Kan.
R. R. station, Pearl, on Rock Island.

10 SCOTCH BULLS

from 10 to 14 months old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at $75 to $125. These are all good. I make steers out of my poor ones. Come at once. They will suit you.
COL. ED. GREEN, Florence, Kan.

SHORTHORN CATTLE—Richland Grove Farm, breeders of Shorthorn cattle and Berkshire hogs. Lavender Goods No. 300096 and Victor Orange lead this herd. Lavender Goods sired by White Goods; Victor Orange sired by old Victorious. Address **H. B. Coffer, Savannah, Mo.**

ELM GROVE FARM.
Shorthorn cattle and Percheron horses. Write for description and prices.
ISAAC NOVINGER & SONS
Kirksville, Missouri.

EVERGREEN HOME FARM.
Lathrop, Missouri.
Milking Shorthorn cattle, bred hornless Berkshire hogs. Oxforddown sheep. Bourbon Red turkeys. Young breeding stock for sale. A herd of 35 bred Oxforddown ewes to go at a bargain if taken at once. Address
J. H. WALKER, Lathrop, Missouri.

Shorthorn Cows and Heifers

Also a few Scotch and Scotch Topped bulls. Reliable stock for sale at all times. Public sale February 21.
S. B. AMCOATS, Clay Center, Kansas.

RED POLLED CATTLE

RED POLLED CATTLE.
A few choice young bulls for sale; also a few cows and heifers.
C. E. FOSTER, Eldorado, Kansas.

COBURN HERD of Red Polled cattle and Percheron hroses. Young stallions, bulls and heifers for sale.
Geo. Groemiller & Son, Pomona, Kan.

HEREFORD CATTLE

HEREFORD BULLS AND FEMALES.

Two choice Hereford bulls 10 to 18 months old sired by Enterprise (12614), dam Prairie Queen (127345) by Counseller (71682); eight choice heifers coming two and three years old, same line breeding; prices reasonable; all in good condition. Write or come and see me.
HARRY V. BALDOCK, Wellington, Kansas.

Brookside Farm, Savannah, Mo., breeders of Hereford cattle. Herd headed by Hesoid 101st No. 162585 and Horace No. 300428, he by Beaumont. Young bulls for sale. Mail orders given prompt attention.
WARREN LANDERS, Savannah, Mo.

SPRING CREEK HEREFORDS.
Headed by Christy 234417, Prairie Donald by Beau Donald 7th, and Sir Morgan by Onward 18th. Cows of Anxiety 4th, Hesoid, etc., breeding, including imp. animals. Over 100 head in herd. Few choice young bulls and some good females for sale.
TOM WALLACE, Barnes, Kansas.

HOLSTEIN CATTLE

HOLSTEINS FOR SALE.
Four very choice young bulls and a few cows and heifers for sale, mostly sired by Prince Ormsby, no wowned by Nebraska Agricultural College. Him dams on both sides for four generations average 20 lbs.; he has 30-lb. sisters.
J. P. MAST, Scranton, Kansas.

WOODCREST HOLSTEIN—FRIESIANS.
Thirty-six registered cows, heifers and bulls for sale. Some A. R. O. but all good On Rock Island, 30 miles east of St. Joseph, Mo., half mile from station.
S. W. COOKE & SON, Maryville, Mo.

HOLSTEIN CATTLE—Young bulls of the famous Shadybrook family and some bull calves. This herd is headed by the celebrated Sir Johanna Colantha Fayne No. 42146. No females at present. Address
M. E. MOORE & CO., Cameron, Mo.

B. L. BEAN, Cameron, Mo., breder of thoroughbred Holstein-Friesian cattle. A few young cows and heifers for sale; also a few young Korndyke and Johanna bulls; all choice individuals. Address **B. L. Bean, Cameron, Mo.**

HOLSTEIN CATTLE.
The Most Profitable Dairy Breed.
Illustrated descriptive booklets free. Holstein-Friesian Ass'n of America.
F. L. HOUGHTON, Sec., 114 Brattleboro, Vt.

GUERNSEY CATTLE.

GUERNSEY CATTLE FOR SALE—Young bulls by Eminence of Birchwood, 668 to 714 pound fat records. Stock guaranteed against tuberculosis for 6 months after sale. Largest herd in Kansas. Farm near Roxbury, Kan., and visitors welcome except Sundays.
FREDERICK HOUGHTON, Galva, Kansas.

WILLOW BRANCH GUERNSEY FARM,
J. H. DUSTON, Prop.,
Hamilton, Missouri.
Breeder of thoroughbred Guernsey cattle. Herd headed by Tily's Major No. 8647. Young bulls for sale, among them Major Bonnie Boy No. 8309 and two yearlings of the choicest breeding. Address
J. H. DUSTON, Hamilton, Missouri.

GALLOWAY CATTLE.

Capital View Galloways

A few choice young bulls sired by Imp. Campflower 3d of Stepford 30938 (8407) and Meadow Lawn Medalist 28756.
G. E. CLARK,
2101 Van Buren St., Topeka, Kan.

AUCTIONEERS

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and should you ever wish to attend our school in person amount paid on mail course will apply upon tuition here. Will hold next term April 3 at Oklahoma City. The largest school of the kind in the world.
MISSOURI AUCTION SCHOOL,
Oklahoma City, Okla. Trenton, Mo.

H. R. LITTLE
Live Stock Auctioneer
Abilene, Kan.
A close student of men and methods, with 20 years' experience as a breeder of Shorthorns. Entire time devoted to auction work. Reasonable charges for first-class service. Write or telephone.

COL. C. E. BEAN
AUCTIONEER
Garnett, Kans.

Breeder and Trainer of Standard Bred Horses. Breeder of the large-type POLAND CHINA Hogs. Posted on values and blood lines. Your business solicited. Special attention given to thoroughbred sales.

F. E. KINNEY

Oketo, Kan., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of references furnished. Write or phone for dates.

H. HOHENSTEIN, CHILSEA, OKLA.

Live Stock Auctioneer, breeder of Poland China hogs, Light Brahmas, R. I. Reds, Black Langshans, Buff Orpingtons, Golden and Columbian Wyandotte chickens.

FRANK J. ZAUN,
Fine Stock Auctioneer,
Independence, Mo.
Am selling for the best cattle and hog breeders in the West. Terms very reasonable. Write or wire for dates.
"Get Zaun; He Knows How."

JOHN D. SNYDER

AUCTIONEER.
HOWARD, KANSAS.
I sell for many of the most successful breeders.

LAFE BURGER

LIVE STOCK AUCTIONEER.
Write or wire me for date.
WELLINGTON, KAN.

W. C. CURPHEY

LIVE STOCK AUCTIONEER.
Write, phone or wire me for dates.
ABILENE, KANSAS.

Jas. W. Sparks

AUCTIONEER. Pedigreed Live Stock
Marshall, Mo.

THE STRAY LIST

C. C. Stotler, County Clerk—Wabaunsee Co.
TAKEN UP—One red steer, 1 year old, mottled face, about 4 feet high, appraised value $30; also one red heifer, 1 year old, mottled face, about 4 feet high, appraised value $22. Was taken up Jan. 8, 1911, by Redemske Bros., Alma, Kan.

E. L. Barbour, County Clerk—Elk County.
TAKEN UP—By M. J. Crenan, Elk Falls, Kan., one chestnut sorrel mare, age 6 years, 5 feet high; Y on left jaw; scar on front foot; also wire mark on left front leg.

N. A. JONES, COUNTY CLERK, Marion Co.—Taken up by C. P. Nichols, one red cow about 4 years old, weight 800 pounds, hole torn in left ear. Appraised value $20.00.

FIELD NOTES.

Tiller's Duroc Sale.

O. A. Tiller of Pawnee City, Neb., held a bred sow sale on February 8. The offering was an exceptionally well bred one but lacked fitting and a large number of the gilts were bred late, as a result low prices prevailed. The average selling price was around $30 with a $44 top. Among the principal buyers were Frank Vitska, Wm. McCalland, Verne Howard and Murray Denton, all of Pawnee City and Con McCarty of Henderson, O. J. May, Bennett, J. Davis, Fairview, Kas and John Mellenbruch, Morrill Kas.

POLAND CHINAS

DESIGNER. SEARCHLIGHT

Kansas Live Stock History Does Not Give the Names of Two More Consistently Successful Animals Than These, Our Chief Herd Bull and Boar.

They and their assistant are the factor in the every-day "make good" business practice which has given us a mighty satisfactory business in

SHORTHORNS AND POLAND CHINAS.

Stock for sale at all times and prices reasonable. Look for our sale dates and send for catalogue; each year better than the year before.

C. S. NEVIUS, Chiles, Miami County, Kansas.

THE MORTONS

QUALITY AND SIZE POLAND CHINAS. Herd headed by Equipment 51530 by Impudence. For quick sale, 20 summer and fall gilts sired by a son of Meddler 2d, bred for August farrow. Also 3 fall boars. All representations guaranteed.

THE MORTONS, Tampa, Kansas, Marion County.

SPRING BOARS

We still have a few extra good spring boars for immediate sale, sired by First Quality by Grand Chief. They will be priced right. Can also spare a few gilts, bred and open.

YOUNG & KIMMERLING, Glasco, Kansas.

175 BIG TYPE POLAND CHINA PIGS.
Both sexes, March and April farrow, sired by Bell Metal M. 54349 and Success 53651. Heavy boned and strong. Strictly big type. Reasonable prices.
J. E. BOWSER, Abilene, Kansas.

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John 2nd and John Ex. Young stock for sale at all times. A few choice Hadley boars.
CHARLES Z. BAKER, Butler, Missouri.

KING DARKNESS No. 149999
Heads my herd of RICHLY BRED POLAND CHINA SOWS. I have a few choice gilts and also sows bred to him for sale. A nice lot of fall pigs by Peerless Perfection 2d.
F. J. MILLER, St. John, Kansas.

18 - BRED GILTS - 18

For sale, bred to A. L. Hadley; $25 to $40.
A. L. ALBRIGHT, Waterville, Kansas

HARTERS BIG KIND POLANDS

Headed by Mogul's Monarch 45858 and Capt. Hutch 39068. Bred sow sale Feb. 16. 50 Barred Rock cockerels for sale.
J. H. HARTER, Westmoreland, Kansas.

Big Type Poland China Gilts

A few very choice ones sired by the great Wilkes Again and safe in pig to a grandson of Grand Look. $30 each if sold soon.
J. B. WHIPPLE, Fall City, Neb.

Graner's Great Big Poland Chinas

Big and with quality. The big litter sort. Few boars left. Bred sow sale Feb. 9.
H. C. GRANER, Lancaster, Kansas.

HAVING concluded not to hold a public sale, I will offer 25 well bred, growthy gilts bred to the best and highest priced large-type young boars out this year; six tried 2-year-old sows bred to Grand Look 2d. This cross produced my best sellers in my fall sale. If you want the best that grows, come or write. Special prices on a number in one deal.
S. A. Bugg, Hamilton, Missouri.

POLAND CHINAS

BRED SOWS AND GILTS.
Ten Strike, grand champion at the Oklahoma State Fair, 1908, heads the herd. Special prices on a few bred sows and gilts. All pedigrees furnished when hogs are delivered.
T. M. CHAMBERS, Oswego, Kansas.

BIG BONED POLAND CHINAS

10 choice Boars for sale that are first class herd headers, they are big and smooth and guaranteed. Write at once.
W. A. BAKER, Butler, Mo.

Highview Breeding Farm

THE KIND OF OUR FOREFATHERS.
Home of the big-boned spotted Polands. The only registered herd of original spotted Poland Chinas on earth. Bred sow sale February 15, 1911. Ask for catalog.
H. L. FAULKNER, Box K, Jamesport, Mo.

EUREKA HERD of pure bred Poland Chinas and Duroc Jerseys. Boars all sold, but have a limited number of Poland China spring gilts bred for early farrow. These are good ones, priced right. Farm 7 miles south of Simpson, Kan. **W. H. Sales.**

ROSE LAWN POLAND CHINAS.
King Darkness by Meddler 2d, assisted by Shortgrass Meddler by Meddler 2d head my herd of richly bred Poland China sows. A few spring gilts by On the Spot for sale.
E. J. MANDERSCHEID, R. 3, St. John, Kan.

BROOD SOW SALE.
Boars all sold at present except a few fall boars. Brood sow sale Feb. 15. Send for catalog early, as there will be some awful good gilts.
R. J. PECKHAM, Pawnee City, Nebraska.

The Only Chance to Buy Gilts

Bred to VOTER for March farrow will be at my Feb. 22 sale. Get catalog early. Choice fall boars at private treaty; bargain prices until Feb. 15.
W. C. MILLIGAN, Clay Center, Kansas.

White Plymouth Rock admirers, fanciers and breeders should look up the advertisement of Frank Knoff, Holton, Kan. He is offering some exceptionally good quality at reasonable prices.

POLAND CHINAS

LARGE TYPE POLANDS.
Toulon Prince 50559 heads herd. Bred gilts for sale; also some good August pigs, either sex. **L. E. KLEIN, Zeandale, Kan.**

LAREDO HERD
Poland Chinas, headed by Impudence Style 1332378 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts.
G. W. McKAY, Laredo, Mo.

BIG TYPE POLAND CHINAS.
Gold Standard by Chief Gold Dust in service. Sows represent the most noted big-type strains. Choice lot of spring pigs.
WALTER HILDWEIN, Fairview, Kansas.

FAIRVIEW POLAND CHINAS

FOR SALE—25 select gilts, bred for April and May farrow; choice for $30. Also 60 fall pigs at prices to move quickly.
P. L. WARE & SON, Paola, Kansas.

SULLIVAN COUNTY HERD.
Poland Chinas; 200 head in herd; best blood known to the breed. For sale, eight choice fall gilts; also eight Collie pups.
FULLER BROS., Humphries, Missouri.

NINETY HEAD FALL PIGS FOR SALE,
Sired by the famous Hadley Boy No. 48069. Remember our bred sow sale Feb. 10, 1911, and send for catalog.
GEO. M. HULL, R. 1, Garnett, Kansas.

Cronniger's Big Polands Lead

The blood of the biggest and best. A few choice fall boars and gilts ready to ship. Bred sow sale February 23, 1911.
HERMAN GRONNIGER & SONS, Bendena, Kansas.

HICKORY GROVE FARM, the home of the big boned black and spotted Poland China hogs, the farmers' hog, and the kind that makes the most pork. Choice males for sale. Address
GEORGE & OLLIE TAYLOR, Cameron, Mo.

GEO. SMITH'S BIG POLANDS—Headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust. 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well.
George W. Smith, Burchard, Neb.

EXPANSIVE 34723.
The 1000-lb. boar assisted by Sampson Chief and Big Victor 2d head my herd of high class, big, smooth Poland Chinas. A few choice bred sows and gilts for sale. Write your wants now.
H. B. WALTER, Effingham, Kansas.

12—VOTER HERD BOARS—12
A spring yearling by Voter and out of Queen Wonder; good individual; price $75. 12 top spring boars by Voter, $25 to $40. 20 Voter gilts cheap if sold in bunches. Dams in herd represent best families.
A. & P. SCHMITZ, Alma, Kansas.

SPRING MALES AND GILTS.
Now is the time to buy your breeding stock while the best is yet unsold. My pigs are strong and thrifty; are well bred and have been fed with an eye to future usefulness. Write me now. Address
C. H. TILLQUIST, Osborne, Kansas.

W. F. HOUX, JR.
Breeder of Shorthorn cattle and Poland China hogs. Cattle herd headed by King Challenger 312040, sire Whitehall King 222724, dam Lady Zenda 3d; grand sire, Whitehall Sultan 163573. Hog herd headed by Wonderlook 65255, sired by Grand Look No. 125703, dam No Wonder; Spotted Chief 56692, sired by Missouri Sunflower 49513, dam Queen Quality 11304. Watch for bred sow sale date in February. Address
W. F. HOUX, JR., Hale, Missouri.

POLAND CHINA HOGS.
Mastodon Poland China hogs, the big-boned type that will weigh when mature 800 to 1,000 pounds. Mastodon Price leads this herd. Mastodon Price sired by A Wonder 107356, a hog weighing in full flesh 1,200 pounds. If you want the right kind, they are at Quality Ridge Farm. A number of bred gilts for sale; all choice individuals. Phone me at Dearborn, Mo. Railroad station Newmarket, Mo.
CLARENCE DEAN, R. 1, Weston, Missouri.

WALBRIDGE POLANDS

Quality

L. C. Walbridge, Russell, Kansas

POLAND CHINAS

DEER PARK STOCK FARM.
Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman. Choice lot of spring pigs for sale by Impudence E. L. and Dawley's S. P. Perfection.
D. A. WOLFERSPERGER, Council Grove, Kansas.

POLAND CHINAS WITH SIZE.
Some very choice fall pigs weighing from 100 to 125 pounds, sired by Pawnee Look, the best boar Looks Grand ever sired. The hog that suits the big type breeder and farmer. My motto: "More hog and less hot air." **F. F. Oerly, Oregon, Mo.**

GOLD METAL 43343
By Bell Metal 40388 heads my herd of big type Polands. Breeding stock for sale at all times. Prices right.
JOHN C. HALDERMAN, Burchard, Neb.

POLAND CHINAS

PRAIRIE VIEW HERD.
Hamilton, Missouri.
Breeder of Big Type Poland China Hogs and Buff Orpington chickens. Address
F. E. MULLER, R. 4, Hamilton, Missouri.

BIG POLAND CHINA HOGS.
Limestone Farm Herd, Clarksville, Mo., M. Gottswiller, Prop., breeder of big Poland Hogs, Shropshire sheep, Buff Orpingtons and Single Comb Brown Leghorn chickens, Pekin and Indian Runner ducks and Chinese geese. Breeding stock for sale.

STRYKER BROS.' HERD POLAND CHINAS.
The greatest show and breeding herd in the West. Write your wants and they will please you. Buy the best and make the most. They breed the kind that win; the kind that you want. Address
STRYKER BROS., Fredonia, Kan.

DUROC JERSEYS

RIVER BEND HERD DUROCS.
Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants.
W. T. FITCH, Minneapolis, Kansas.

DUROCS RICH IN COL. BLOOD

Headed by G. C.'s Kansas Col., mated with the greatest line of sows ever owned by one Kansas breeder. Stock for sale at all times. Bred sow sale Feb. 14.
CHAPIN & NORDSTROM, Green, Kansas.

SPRING BOARS AND GILTS.
Best of breeding and top quality. Some early spring boars—good, strong, growthy fellows — will be priced right. By such boars as Agra Top Notcher, Paul Jumbo, Bonney K. and I Am a Bonney K.; also gilts of equal breeding, quality and size, priced right. Address
W. C. WHITNEY, Agra, Kansas.

SPRINGBANK DUROC JERSEYS.
Headed by W. H.'s Col., first prize junior yearling boar Hutchinson State Fair, 1908, assisted by Chief Orion, third prize aged boar.
Sow Sale—Ten tried sows by Chief Orion bred to W. H.'s Col. Come and see them.
W. H. WILLIAMSON, Raymond, Kansas.

R. & S. FARM

150 Spring Pigs, sired by King of Kant Be Beat No. 38333, and Golden Ruler No. 80555. Write your wants. Bred sow sale Feb. 3, 1911.
RINEHART & SON, Smith Center, Kansas.

WOODLAWN DUROC JERSEYS.
Headed by Woodlawn Prince 52343. Sows of Ohio Chief, Orion, Topnotcher and other good families. Choice yearling gilts for sale, bred for March and April farrow. Also a few open gilts.
ROY H. OTT & BRO., Concordia, Kan.

DUROC FALL PIGS, EITHER SEX.
Fairs, not related, for sale reasonable. Bred sow sale January 24. Write at once for catalog.
FRANK VRTISKE, Pawnee City, Neb.

HOTEL GREENWOOD HERD.
Headed by Stith's Commadora by Top Commadora. Bred sows and gilts for sale; 200 head in herd. A choice lot of fall boars and gilts. **CHAS. STITH, Eureka, Kan.**

CROW'S DUROC JERSEYS.
Herd headed by Climax Wonder, he by Missouri Wonder. 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time.
W. R. CROW, Hutchinson, Kansas.

CEDAR LAWN HERD.
Twenty boars for sale by Long Wonder 21867 and Lincoln Chief 91913, a son of Chief Tatarrax. Will also offer some spring gilts at reasonable prices by such dams as Josie Surprise, Bessie Advance, Proud Queen by Ohio Chief.
F. M. BUCHHEIM, Lecompton, Kansas.

CHOICE DUROC BOARS FOR SALE.
Good individual descendants of Orion, Valley Chief, Farmer Burns, etc. Reasonable prices.
O. A. TILLER, Pawnee City, Nebraska.

BRED SOW SALE MARCH 8,
12 tried sows and 38 choice gilts to sell Send for catalog.
L. C. WOOLEN & SON, Breeders of Pure Bred Duroc Jersey Hogs, Stansberry, Mo.

Greenwood Herd Durocs

FOR SALE—Choice lot tried sows and gilts, sired by Dandy Duke and Tatarrax Model, bred to Model Duroc, Greenwood Chief and Chief Orion. All guaranteed; priced $30 to $50. If you want good hogs write me.
R. D. MARTIN & SONS, Eureka, Kansas.

40—DUROC GILTS—40
All sired by Helen's Wonder (a son of Red Wonder and Helen Blazes 21st(and S. D.'s Inventor (a son of Inventor). Many of these gilts are out of May Boy sows. They are bred for early March and April farrow to one of the above mentioned boars or Crimson Model, a fancy son of Nebraska Wonder. They combine quality and scale and will please.
J. F. STODDER, Burden, Cowley County, Kansas.

DUROC JERSEYS

ANDERSON HIGH CLASS DUROCS.
Choice lot of fall pigs of the best of breeding for sale at very reasonable prices. For low prices on good stock, address
C. O. ANDERSON, Manhattan, Kansas.

JEWELL COUNTY HERD.
Headed by Bonney K. 74075, all prominent blood lines represented. Sow sale Feb. 1, 1911.
W. E. MONASMITH, Formosa, Kansas.

DUROC JERSEY BOARS

A few good ones for quick sale by a good son of King of Cols 2d; also bred sows and gilts. Three choice Jersey bulls and few cows and heifers.
S. S. SMITH, Clay Center, Kansas.

DUROC JERSEYS.
Bred sow sale Feb. 22. Ten tried sows, 40 spring gilts; all pure bred and the big, smooth kind.
JASPER AULDRIDGE & SON, Pattonsburg, Missouri.

OHIO IMPROVED CHESTERS

MOSSE OF KANSAS

Kansas Herd of Improved Chester Whites. Grand Champion Sow Kansas State Fair.
ARTHUR MOSSE, R. D. 5, Leavenworth, Kansas.

MAPLE LEAF O. I. C's.

The best blood lines represented in this herd. When in need of quality write.
R. W. GAGE, R. D. 5, Garnett, Kansas.

BERKSHIRES

LARGE ENGLISH BERKSHIRES

Breeding Stock for Sale.
H. U. McCURDY & CO., Hutchinson, Kansas.

BERKSHIRES—OVER 260 HEAD

To select from. Choice boars and females of various ages. A nice lot of fall pigs priced reasonable. We guarantee satisfaction.
LEON A. WAITE, Winfield, Kan.

HAMPSHIRE HOGS.
All ages, both sexes, best strains, prize blood. Prices right.
C. W. WEISENBAUM, Altamont, Kansas.

OHIO HERD OF MULE-FOOTED HOGS.

Stock of all ages for sale, sired by five big prize-winning boars and out of big matured and prolific sows, the equal of any breed. I have the largest herd in the land of this vigorous and healthy breed. **JOHN H. DUNLAP, Box P, Williamsport, Ohio.**

FIELD NOTES.

Clary & Sons' Big Sale.

J. E. Clary & Sons, Sheridan, Mo., breeders of high class jacks, announce a big sale at Sheridan, March 8. Their offering at this sale will consist of ten head of Missouri and Kentucky bred jacks from 2 to 7 years old. Among the lot will be Jumbo Mammoth, an extra fine jack, black in color with white points, extra heavy bone, extra head, neck and ear, stands 15.2 hands high and weighs 1150 pounds. There will also be three extra fine 3 year olds, one extra fine 3 year old, with the balance yearlings and 2 year olds, all a very fine lot. They also offer a big lot of horses, mules and cattle, including a fine lot of milch cows, a lot of bred Poland China sows, and seventy head of bred Shropshire ewes. Pleasant Ridge Stock Farm has long had a reputation for the best stock including fine jacks and jennets. Clary & Son sell nothing but their own stock and they have learned by years of experiment that the best way to sell surplus stock is to decide what they want to sell, employ a few of the best auctioneers, advertise their offering and sell it. You will find every animal advertised fully up to description, and present at this sale baring accident or death. They invite you to attend this sale and your entertainment while you are a guest at Pleasant Ridge Farm is assured.

Nebraska Wonder and King of Col.

Duroc Jersey Bred Sow Sale

at Blue Rapids, Kan. Monday, Feb. 27

50 head of splendid individuals, with first class pedigree; 10 fall yearlings and 40 spring gilts, all bred for March and April farrow to Welch's Wonder by Walnut Wonder, dam by Neb. Wonder; Blue Rapids Col. by Col. C., he by King of Cols. 2d, and Carter's Golden Rule by Golden Rule Special, he by the great Pearl's Golden Rule.

FALL YEARLINGS—are daughters of King of Cols. 2d and G. C.'s Col. and out of Model Chief Again and C. E.'s Col. dams.

SPRING GILTS—by old Neb. Wonder and Queen Col., Chester Thomas's great boar sired by King of Col. 2d and out of the noted sow, Crimson Queen. The dams of the spring gilts are practically all by Neb. Wonder and Kansas Wonder. This is one of the best offerings of the season both as to breeding and individuality and must be seen to be appreciated. Write for catalog, mentioning Kansas Farmer, and if unable to attend send bids to Jesse Johnson in our care. Sale at farm adjoining town.

MORGAN & KAUMP

Successors to E. R. Morgan

Blue Rapids, Kansas

AUCTIONEER—FRANK ZAUN.

GRONNIGER'S ANNUAL

Big Type Bred

Sow Event

At farm near Bendena, Denton and Severence, Kansas,

Thursday, Feb. 23, 1911

50 head, a draft from one of the biggest herds in Kansas.

10 TRIED SOWS 30 FALL YEARLINGS 10 SPRING GILTS

BRED TO THESE GREAT BOARS.

Big Hadley's Likeness, Banner Boy, Exalter by Expansive, Defensive by Defender, and Warewell 56504.

TRIED SOWS—Consist of some of the best individuals and workers we have ever had in the herd. We hate to see them go but it takes good ones to make a sale now days.

FALL GILTS—Are an outstanding bunch mostly sired by Banner Boy. Others by Graniteer's Quality, Gold Dust Hadley, Major Bob, Wise's Hadley, etc.

SPRING GILTS—Are tops sired by Union Leader, Big Hadley's Likeness, Collossus, Gold Standard, Gold Metal, and other good, well known boars. Their dams are big sows sired by Expansion, Gold Metal, Sunflower, King Hutch, First Quality, etc.

Sale will be held in pavilion on farm and every one made comfortable no difference what kind of weather. Plenty to eat and hogs at your own price. Write for catalog giving breeding and other information. Send bids to Jesse Johnson who will represent Kansas Farmer at this sale.

HERMAN GRONNIGER & SONS

BENDENA, KANSAS

AUCTIONEER—JAS. W. SPARKS.

Geo. Smith's Mammoth

Hadley Poland China Bred

SOW SALE

Wednesday, Feb. 22, 1911

40 Mortgage Lifters **40 Mortgage Lifters**

Comprising 3 tried sows, 6 fall yearlings and 30 spring gilts, all bred for March and April farrow to Mammoth Hadley, Grand Model by Look Grand and a good son of O. K. Price.

TRIED SOWS—Include a very choice sow by Mammoth Hadley with a dam by Johnson's Chief.

FALL YEARLINGS—Good ones and every one sired by Mammoth Hadley.

SPRING GILTS—By Mammoth Hadley and Grand Model and out of as great a lot of dams as can be found in the state, daughters of Johnson's Chief, O. K. Price, Looks Grand, Prince Youtell, Golddust, Growthy King, etc. You know the blood and the type that goes with it. I am putting up my usual good offering and will sell them in the condition that will insure future good to the buyer. I know fat sells them sometimes but I would rather take a few dollars less and make customers that will come every year. I know this offering will please and I invite every lover of good hogs to attend either as a buyer or visitor. Write for catalog and either attend or send bids to Jesse Johnson in my care.

Geo. W. Smith

Burchard, Neb.

AUCTIONEERS—L. W. LEONARD AND SONS.

Growthy King the 1000-lb. Litter Bro. of Long Kings Equal

Will be ably represented in my next bred sow sale, to be held at farm one mile west of town

Friday, February 24th

Pawnee City, Nebraska

46 head, 6 of my best tried sows and 40 gilts of the Growthy King type, that are big, wide out, heavy hammed, meat carrying kind. The tried sows include two daughters of the noted Big Hadley. Both of them have King Do Do dams. Favorite by Blain's Tecumseh 2d and Bonnie Maid by Johnson's Chief. The truth is I have gone into the herd and selected as attractions for this sale six of about the best sows I have ever owned. They will be bred for March and April farrow to Growthy King and the great breeding type maintaining sire, Look Grand. The gilts are daughters of this great pair of boars and out of such sows as we have mentioned. In order to continue my policy of making every cross show an improvement I have bought from Peter Mouw of Orange City, Iowa, a young boar and mated him with a large number of these outstanding good gilts. I have raised this kind for many years and have always tried to have the best but have never raised a bunch before that suited me so well. I am greatly impressed with them as brood sow prospects and still they have the finish and feeding propensities that are not always seen in big hogs. Catalogs are ready any time and will be sent upon request.

G. S. HAMAKER

Pawnee City, Nebraska

AUCTIONEERS—L. W. LEONARD AND SONS.

Jesse Johnson fieldman for this paper. Send bids to him.

BREEDERS' SALE
400-HORSES-400

In Coliseum, Bloomington, Ill.
February 28, March 1, 2, 3

On Tuesday, Wednesday, Thursday and Friday, we will sell

350 Imported and Native Bred Registered Percherons, Belgians, French Draft, Shire and Clydesdale Stallions and Mares.

100 Head of imported stallions and mares that will land by sale day.

150 Head of imported stallions and mares that have been here a year.

150 Head of the best registered mares that ever went in an auction ring.

50 Head of imported fillies, 1 and 2 years old.

100 registered stallions of the very choicest of breeding and individuality.

On Friday, March 3, 1911, we will sell 100 head of Registered Trotters, Grade Draft, Saddle and All-purpose farm horses, stallions, mares and geldings.

50 Shetland Ponies from the best breeders in the state. Stallions, mares, and geldings, fit for your wife and children to drive.

CONSIGNORS—Moots Bros., D. Augstin, Leemon Bros., J. H. Weaver, Dodson Bros., Woolf Bros., Down Bros., D. E. Stuart, I. Dillon, Welch & Peck, Helander & Co., Burgess & Son, Wm. & Fred Finch, J. R. Pendergast, H. W. Bowman, Rowe Bros., Sass Bros., T. J. Moore, Coleman Bros., Ben Bohlander, M. F. & J. M. Leigh, Enos Stuart, and fifty others.

Catalogue ready February 10.

Breeders' Sale Co.

C. W. HURT, Manager
ARROWSMITH, ILLINOIS

Limestone Valley Farm

—Headquarters for high class jacks and jennets. No public sale 1911, but have a barn full of good jacks and a pasture full of good jennets at private sale. Every animal a good one, fully guaranteed and well worth the price.

COME AND SEE US.
L. M. MONSEES & SONS.
Smithton, Mo., Pettis Co.

Percherons Belgians and Shires

Also Shetland Ponies. Will have a good importation of stallions of the breeds mentioned Jan. 1. Now offering special bargains in mares to make room. Call on or write Joseph M. Nolan, Paola, Kan., 40 miles south of K. C. Please mention the Kansas Farmer.

Percheron Stallions

I have as fine a bunch of stallions as you will find. I have the ton size, and 1,700 to 1,800 pound two year olds, with worlds of bone and great action. My prices are right and my horses are right.

Yours for home grown Percherons,
J. W. BARNHART, Butler, Mo.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.
Up-to-date Poland China hogs. Write your wants.
H. N. HOLDEMAN, Meade, Kansas.

REGISTERED HORSES

O. K. BARNS, SAVANNAH, MO.,
W. E. Price, Proprietor.
Dealer in registered horses. Three very fine stallions to SELL AT ONCE. Also the best stud colt in the state. Write for description of stock. I can suit you.

THE BEST IMPORTED HORSES, $1,000 each. Home-bred, registered draft stallions, $200 to $600 at my stable doors. Address A. LATIMER WILSON, Creston, Iowa.

HOME-BRED DRAFT STALLIONS $250 to $600; imported stallions, your choice $1,000. F. L. STREAM, Creston, Iowa.

75 TO 100 PERCHERONS SHIRES BELGIANS

in our barns; *largest, smoothest* and *best bred* horses Europe can produce; horses with blood lines tracing back for 30 generations; horses that will get a *smooth, even* bunch of colts, no matter what class of mares you breed to them.

SEND FOR OUR CATALOG
It Will Help You Decide

Prices reasonable. Horses warranted. Satisfaction assured. Make us a visit.

WATSON, WOODS BROS. & KELLY COMPANY
Dept. 1 Lincoln, Neb.

SPECIAL SALE
JACKS and JENNETS
MARCH 1, 2, 1911

5th ANNUAL SPECIAL SALE OF

JACKS AND JENNETS

Lafayette County

JACK FARM

One mile east of Higginsville, on main line of C. & A. and Lexington & Sedalia Branch of Mo. Pacific, 55 miles east of Kansas City.

Send for catalog. Come to my sale.

100 Head High-Class Registered Black

JACKS AND JENNETS

Every animal registered and guaranteed as represented. Nothing priced or sold after catalogued. Free conveyance from town to sale. Catalogues will be ready February 1. If interested write for catalogue and come to the sale. You will not be disappointed, but highly pleased, as I am offering the best bunch of jacks that I have ever had the pleasure of offering to the public. They have been picked from the best strains of blood in Missouri and Kentucky. Every one a good one, with size and quality combined. I will be pleased to meet you and entertain you at my expense. Stop at the Arcade Hotel, opposite C. & Alton depot.

W. J. FINLEY, Higginsville, Mo.

Frank Iams' Prize Stallions

and mares are "par excellence," ideal "peaches and cream" horses. His 1910 "special trainload" of imported horses were bought in Europe when "crops" were the "poorest in 20 years." "Big floods," cold weather in July and August made horsemen throw all their "prize winners" on the market. Iams was waiting there with "the gold." He made "a killing." 80 of his 160 horses are "prize-winners." "Ikey buyers," get the benefit of "Iams' killing" by seeing his horses, and you will sing "Iams' song." Buy "Top-notchers" of Iams. He has "the goods" and "makes good." And "Big Ikey Horseman" "can't be lassoed and kept away from" IAMS' "Top-notchers." They are in the "pink of condition," like "ripe strawberries"—ready for a "good selling"—and all must "positively be sold." Get on to "IAMS' money-saving game." Buy stallions and mares today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird;" they get the choice of IAMS' "Black Boys" and Top-notchers. "Leave your happy home," visit the "peaches and cream" stallion man and save $1,000. Every day is "bargain day," a "horse show day" and a day of "profit and pleasure" at IAMS' "Stallion and Mare Emporium," the largest in the United States. You will positively see here more imported stallions and mares — "top-notchers," "medal-winners," "ribbon-grabbers," and every-day "business" horses—than at any "horse plant" in the United States, and double all others in Nebraska. IAMS backs up his "ads" and catalogue with a "$500 bonus" (no others do this. He gives six of the best banks in Nebraska for reference.

IAMS' 120 Kings and Queens of PERCHERONS and BELGAINS

are all "top-notchers." No International "tailends" no "auction stuff" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." IAMS is a "big fly in the ointment" in the "horse business." He "sets the pace for all competitors." IAMS "leads the procession," "Ikey Boy." Buy an imported stallion and two mares of IAMS, the horseman who "does things." Get into IAMS' Band Wagon; don't be "sidetracked" by any "hammer knockers." Ikey Boy, "waltz me around once again" and land me at IAMS' "four importing barns" and box office, filled to the roof with big "black boys and girls" at bargain prices. IAMS is the only horseman that really has "the goods" as advertised. 1911 promises to be the most prosperous year in history. Mr. "Stand Patter," "come on down town." Sing Iams' song. Buy stallions and mares of Iams as

All the World Knows IAMS, the Big Horseman.

He has a loving feeling for horse buyers. He sold 60 imported stallions and mares to "Iowa boys" in 1910 and 140 "top-notchers" to the boys with brains in other states. IAMS sells $4,000 imported stallions at $1,000 and $1,400 (some higher); imported mares in foal, 1,700 to 2,400 pounds, at $700 to $1,000; many medal winners. IAMS sells the "wide-as-a-wagon' 'kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." IAMS is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, don't be the lobster; "be the wise guy after all." Try IAMS, the "peaches and cream stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. IAMS has a "warm spot" in his heart for all stallion buyers.

He Saved $300,000 to Stallion Buyers

In 1910 by selling stallions direct to the people, saving all middleman's profit. IAMS is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin' and a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick stallion salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a $1,200 stallion for $3,000 and $4,000. "Son Ikey-" form your own "stallion company." Visit IAMS' "town of barns filled to the roof with big "black boys," the "best ever"—"IAMS' kind." His 160 stallions and mares, two to six years old, weigh 1,700 to 2,500 pounds, 90 per cent black, 50 per cent ton horses, are a horse show better than "the International."

IAMS' 1911 Horse Catalogue Is an "Eye Opener" (Just Out)

A "bunch of gold," the "book of books," to stallion and mare buyers. It is full of "wide-as-a-wagon drafters"—the real "peaches and cream" stallions. It shows largest imported stallions and mares in the United States, "true to life," and truths, facts, "business propositions," and 115 illustrations of the best and the "tricks of stallion peddlers" and "auction block" salesmen. it is the finest, most elaborate, and original up-to-date book in the world. IAMS' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of IAMS, the "square deal" horseman. If you visit him and don't find every statement in his advertisement or catalogue as represented, you can get the $500 that he hangs up. IAMS guarantees to sell you a

Better Stallion at $1000 and $1,400

(Few higher) than are being sold to farmers' stock companies at $2,500 and $4,000; with 60 per cent breeding guarantee, with freight and fare paid by IAMS. He can furnish buyers $1,500 insurance. You say, "why can IAMS sell better stallions at half the price of others?" IAMS buys and sells every stallion himself. He buys stallions by special trainload, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you $300. He pays no "slick" salesman $100 to $1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions.

He Sells Stallions by "Hot" Advertising

And having "the goods" to make every statement good. IAMS sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. "Special prices" made at IAMS' barns only. IAMS WILL SAVE YOU $1,000 in Commissions and middleman's profits. "Papa, dear," buy me a pair of imported mares of IAMS. They will raise me colts at six months old that will sell for $500 and be good for twenty years." .IAMS has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of these so-called American full bloods with questionable breeding.

IAMS' "Selling Clothes" Fit All Buyers

Write for IAMS' million-dollar horse catalogue. IAMS' guarantee is backed by one-half million dollars. References: Omaha National Bank and First National, Omaha; Citizen's National, St. Paul State Bank and First State Bank, St. Paul, Nebraska; and Packers' National Bank, South Omaha.

IAMS buys big page ads, because it is cheaper and more reliable than the big flannel-mouth horse salesman. IAMS sold double the horses in January 1911, as any other year in 29 years. The "proof of the pudding" is in selling the best stallions.

ST. PAUL, NEBRASKA

HEREFORD SALE

Lincoln 7th By Lincoln 2d by Cherry Boy

Simpson By Beau Gondolus by Beau Brummel

Dandy Andrew
By the champion Dandy Rex

ARE THE SIRES OF THE

65 HEAD 65

20 Yearling and two-year-old bulls and 45 yearling, two and three-year-old cows--to be sold in our first public sale to be held at the Fair Grounds at

Council Grove, Kansas

Feb. 28, '11

These are the tops of the season's crops for their ages and have been especially selected for this offering. The bulls comprise the best lot we ever raised—all big, strong, growthy bulls of superb breeding—suitable for herd bulls, for the breeder, farmer or ranchman, and are in excellent condition. The cows and heifers are a particularly choice, even lot and will please any breeder. They are in calf to Lincoln 7th, Simpson, Dandy Andrew, Beau Manderin 2d or Pistaqua Exchange—mostly for early spring calves. They are good size, have excellent heads and horns, and are really high class in every respect. You can judge our entire herd by this selection of young breeding cows. You will find them a valuable and useful lot of

Richly Bred Cows

in the very best breeding condition.

Every Animal will be Sold

We offer you the best we have—and you make the price. Write today for catalogue and pictures of our herd bulls. Address

Jones Bros.
COUNCIL GROVE, KANS.

AUCTIONEERS—EDMONSON, ZAUN, BRADY AND SPARKS.
Mention Kansas Farmer when writing.

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan.
Jesse R. Johnson.....Clay Center, Kan.
W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

Horses.

Percherons, Belgians and Shires.
Feb. 23—Kansas Public Sale Co., Topeka, Ksn.
Feb. 28 and March 1, 2, 3, 1911—Breeders' Sale Co., Bloomington, Ill.
Feb. 14—J. C. Robison. Sale at farm, Towanda, Kan.
March 15—Percheron stallions and mares, Kentucky jacks, at Lincoln, Neb. O. P. Hendershot, Hebron, Neb.

Combination.
March 4-11—Enid, Okla., Live Stock Show and Sales.

Jacks.
March 1, 2—W. J. Finley, Higginsville, Mo.
March 7—G. C. Roan, La Plata, Mo.
March 8—J. E. Clary & Sons, Sheridan, Mo.

Shorthorns.
Feb. 21—S. B. Amcoats, Clay Center, Kan.
Feb. 23—W. R. Coleman, Kingman, Kan.
June 6—C. S. Nevius, Chiles, Kan.

Herefords.
Feb. 28—Jones Bros., Council Grove, Kan.
Feb. 17—J. O. Bryant, Savannah, Mo.
Feb. 18—James A. Larson, Everest, Kan.

Polled Durhams.
Feb. 25—C. J. Woods, Chiles, Kan. Includes show herd.

Berkshires.
March 2—Charles E. Sutton, Sutton Farms, Lawrence, Kan.

Duroc-Jerseys.
Feb. 22—Jasper Auldridge & Sons, Pattonsburg, Mo.
Feb. 22—Philip Albrecht, Smith Center, Kan.
Feb. 27—Morgan & Kaump, Blue Rapids, Kan.
March 1—Frank Elder, Green, Kan.
March 15—E. S. Davis, Meriden, Kan.

Poland Chinas.
Feb. 20—H. F. Pelphrey, Humboldt, Kan.
Feb. 20—Collins & Hansen, Abilene, Kan.
Feb. 21—J. W. Pelphrey, Chanute, Kan.
Feb. 22—George W. Smith, Burchard, Neb.
Feb. 22—W. C. Milligan, Clay Center, Kan. Bred sows.
Feb. 23—Herman Gronniger & Sons, Bendena, Kan.
Feb. 23—W. R. Coleman, Kingman, Kan.
Feb. 24—G. S. Hamaker, Pawnee City, Neb.
Feb. 28—W. R. Stump, Blue Rapids, Kan.
March 4—C. H. Pilcher, Glasco, Kan., and E. C. Logan, Beloit, Kan. Sale at Concordia, Kan.
Oct. 11—S. A. Hobson & Son, King City, Mo.
Oct. 21—W. C. Singer, Hiawatha, Kan.
Oct. 25—Walter Holdwein, Fairview, Kan.
Oct. 26—H. H. Foster, King City, Mo.
Oct. 27—J. C. Halderman, Burchard, Neb.
Oct. 31—W. T. Williams, Valley Falls, Kan.
Nov. 1—H. B. Walter, Effingham, Kan.
Nov. 2—H. C. Graner, Lancaster, Kan.

A. E. Blaker, Parsons, Kan., breeder of Barred Rocks, runs a larger ad in this paper. In looking over Blaker's yards, it will surprise you to note the number of first class fowls in his breeding pens. A better lot of Barred Rocks is not in the West.

C. T. Brunson, the Parsons, Kas., S. C. White Leghorn breeder, advertises in this paper. His winnings at the recent poultry shows indicate that he is breeding high class stock.

Ellis E. Brann, of Independence, Kan., breeder of S. C. Rhode Island Reds, begins an ad in this issue. Write him for informatoin about his fine offerings.

A. C. Braunsdorf, Parsons, Kas., is offering exceptional value in Pekin ducks that are premium winners.

W. E. Miller of Independence, Kas., breeder of White Wyandotts and Indian Runner ducks, is among our new advertisers this week. Mr. Miller breeds a very high quality of stock in Wyandotte and ducks which he has demonstrated by his recent winnings. You may depend upon fair dealing in ordering stock or eggs from him. Look up his advertisment in this issue.

The Landers Herefords.

Warren Landers of Savannah, Mo., has been breeding choice Herefords for some years and is now able to offer for sale as fine a bunch of young bulls as he ever raised. There are now 8 head of these that are from 8 to 15 months old and at least two of them are prospective herd herders for extra good herds. Drop him a line about these young bulls.

Searle's Holsteins.

F. J. Searle, owner of the Sunflower Holsteins at Oskaloosa, Kansas, reports splendid results from his advertising in the KANSSA FARMER. During the month of January he sold 18 head at prices ranging from $125 for a youngster to $350 for choice cows. These cattle went to four different states. Five head were sold to Fairbury, Nebraska, five to Cameron, Missouri, four to Whitewater, Kansas, one to Halstead, Kansas and three to White Eagle, Oklahoma.

Woodcrest Holsteins

S. W. Cooke & Son of the Woodcrest Holstein breeding farm at Maysville, Mo., announce a change in their policy by which they will make a big offering of their registered cows, heifers and bulls. Thirty-six head are now on sale, many of them A. R. O. cows and all of them good. Maysville is only thirty miles east of St. Joseph, Mo., on the Rock Island and is easily reached from all directions. Holstein cattle are rather hard to get and here is a chance at some good ones.

On February 22, Jasper Auldridge & Son of Pattonsburg, Mo., will hold their annual spring sale of bred sows. They will sell at this sale 10 head of tried sows and 40 head of extra fine spring gilts. This is one of Missouri's best Duroc herds and the sows offered are a fine lot of individuals, with everything in the way of breeding that could be desired. Breeders wishing the best should not overlook this sale.

Colonel Snyder Changes Location.

Colonel John D. Snyder for many years located at Winfield, Kas., as a breeder of live stock and auctioneer, has moved to Howard, Elk County, Kas. Colonel Snyder will manage a large farm near Howard and continue the auction work. Colonel Snyder is a man with a lot of knowledge of the pure bred live stock business and is a valuable man to employ on a pure bred sale. For dates write him at Howard, Kas., and mention the Kansas Farmer.

Find enclosed check in payment of your bill. We are getting lots of inquiries from our card advertisement in the KANSAS FARMER. Shipped out two more pigs yesterday. Wish you continued success.
HERMAN GRONNIGER & SONS,
Poland China Breeders, Bendena, Kas.

Farmers Should Test Seed Corn.

Farmers who picked their seed last fall or expect to select it from the crib should lose no time in testing same. The fall was so sunshiny and dry that the average farmre was lulled into thinking his seed was good Never was there more moisture in corn than there was in it last fall and the December freezes ruined a very large per centage of it for seed. The G. D. Sutton Co., of Mason City, Illinois, write us that farmers from all over the corn belt are complaining of their seed corn not germinating, that was picked at husking time. They suggest that farmers lose no time in testing their seed. The corn crop is so important that farmers cannot afford to neglect their seed. The excessive moisture in the corn is the cause of poor germination and unless seed has been kept from freezing it will not germinate sufficiently strong to warrant using it. Better send to some reliable seed firm and get seed that will grow strong and vigorous.

Saving Money on Implements.

A few years ago this editor plowed corn with a cultivator made by the Mammouth Plow Co., Mammouth, Ill. It was in all respects a first class implement. The point to this story is, that, that cultivator cost $18.00 at the local implement dealer's store. Today the same cultivator can be bought for $12.00, just one-third less than the old price. What makes the difference? Just this: the full line of implements made by the Mammouth Plow Co. is sold direct to the farmers for wholesale prices, where before it was sold by dealers. The saving is in the method of selling. The Mammouth Plow Co. issue a book—a fine one—in which their charge of plows is explained and the reasons therefor. This is interesting and profiable reading for every farmer, even if he never buys a Mammouth implement in his life time. A simple request to the company, addressed to Mammouth Ill., will bring it free to all who ask for it. Get your copy of it now before the books may be all gone.

Unless you take greatest care with your horses, sore shoulders are inevitable. It is well to have some good remedy on hand so you may treat promptly. Probably there there is nothing better to be had for this purpose than Bickfords Gall Cure. It is the old reliable remedy which is put to the test year after year by thousands of horse owners. And it has the reputation of never being found wanting. The famous old remedy cures galls, cuts and sore shoulders while the horse works. That makes it doubly valuable. The fact that it is to be found on sale with dealers all over the United States and Canada shows that its use is universal. In order to introduce it with horse owners who have never used it, a free sample is being sent out by the manufactures. Enclose 5c in stamps to pay postage and packing and send to Bickmore Gall Cure Company, Box 43R, Old Town, Maine, and the sample box will be sent you by return mail.

Folgate's Durocs.

C. Folgate of Stansberry, Mo., who enjoys the distinction of being one of Missouri's pioneer Duroc breeders, will again be heard from during the coming season. Mr. Folgate commenced breeding Durocs fifteen years ago, and has been constartly in the business since that time, buying the best breeding stock to be had at all times and selecting only choice individuals as members of his herd. As a result of his careful breeding he has a superb herd of big, well finished, high class sows, with breeding second to none and all selected for their prolific and easy fattening qualities. His sows are all bred for early farrow, and are bred to King Thor by W. L. A.'s Choice Goods, Red Wing, sired by Orion Chief, I Am, and Rich Boy, sired by I Am, Belle's Chief, a trio of extra fine boars. Among the sows are daughters of Ohio Lad, Jason Gladstone and other noted boars. Remember this herd for fall stock.

Rapid Lump Jaw Cure.

Almost every farmer has a "lumpy cow" at some time or other. But perhaps you don't know that Lump Jaw can be positively cured in three weeks with Adams Rapid Lump Jaw Cure. It is so efficient and certain in producing results that usually only one application is necessary to effect a complete cure. But however severe or old the case, one bottle is guaranteed to cure permanently in three weeks. Not a scar, blemish, or white hair is left after its use. The price of this reliable cure is only one dollar a bottle, prepaid. You run no risk as it has been used with marvelous success by thousands of farmers, and you get your money back if it is not as represented. Anyway, you ought to send to its manufacturers the H. C. Adams Mfg. Co., Dept. 23, Algona, Iowa, for their Free Treatise on Lameness and Lump Jaw. It's a valuable help to every man who wants to keep his stock in first class condition. Write now.

E. E. Griffith, White Rock breeder of Independence, Kas., is among our new advertisers this week.

NATIONAL CORN SHOW PRIZE WINNERS.
Kansas.

TEN EARS YELLOW DENT CORN.
First—John L. Gronniger, Bendena, Kas. Prize, $5.00.
Second—S. G. Trent, Hiwatha, Kas. Prize, Certificate.
Third—Ed. Flaherty, Senca, Kas. Prize, Certificate.
Fourth—E. C. Lemback, Erie, Kas. Prize, Certificate.
Fifth—F. T. Martin, Hanover, Kas. Prize, Certificate.

.. TEN EARS WHITE DENT CORN ..
..First—E. Wilson, Lawrence, Kas. Prize, $5.00.
Second—S. G. Trent, Hiwatha, Kas. Prize, Certificate.
Third—John F. Boettcher, Holton, Kas. Prize, Certificate.
Fourth—J. M. Gillman, Leavenworth, Kas. Prize, Certificate.
Fifth—H. B. Cochran, Topeka, Kas. Prize, Certificate.

TEN EARS CORN OTHER THAN YELLOW OR WHITE
First—T. J. Wilson, Lawrence, Kas. Prize, $5.00.
Second—E. Wilson, Lawrence, Kas. Prize, Certificate.
Third—Ed. Flaherty, Seneca, Kas. Prize, Certificate.

SINGLE EAR CORN, ANY COLOR.
First—F. C. Roe, Hiwatha, Kas. Prize, $4.00.
Second—S. G. Trent, Hiwatha, Kas. Prize, Certificate.
Third—J. M. Gilman, Leavenworth, Kas. Prize, Certificate.
Fourth—L. B. Sanford, Sabetha, Kas. Prize, Certificate.

PECK SOFT WHEAT.
First—William Borst, Ackerland, ,Kas. Prize, $5.00.
Second—J. H. Green, Basebor, Kas. Prize, Certificate.
Third—Charles Shuster, Quenemo, Kas. Prize, Certificate.

PECK SOFT WHEAT.
First—George Covey, Ferguson, Kas. Prize, $5.00.
Second—J. M. Gilman, Leavenworth, Kas. Prize, Certificate.
Third—S. T. Cross, Lewis, Kas. Prize, Certificate.

PECK WHITE OATS.
First—H. A. Bushley, Rydal, Kas. Prize, $5.00.
Second—E. E. Bowersox, Belleville, Kas. Prize, Certificate.

PECK BARLEY.
First—Alden F. Huse, Manhattan, Kas. Prize, $5.00.

William Borst, Ackerland, also won sweepstakes on peck of soft wheat for the central zone.

"That the farmer should eventually come to his own in this country as disclosed by the latest reports of the U. S. Bureau of Statistics is a matter of national rejoicing, for to him we look for our food and for the raw material with which our wearing material is made," says R. E. Olds, president of the Rea Motor Car Company. "A careful compilation of all available returns at this time shows that during the year 1910 approximately 26,000 automobiles were purchased by American farmers which is an increase over 1909 of 85 per cent and more than 400 per cent over the motor cars which farmers purchased during 1908. These facts indicate that the American farmer is raising crops which he can readily market at the highest prices known in several decades, if indeed not in our entire history. In fact, his income for 1910 will aggregate fully $9,200,000,000.00 which is the largest amount of farm products raised in one year by any country in the world. Being a well read man on all subjects that perttain to the management, progress and development of his farm, it was but natural that the American farmer early began to study the relative merits and advantages of the horse and the automobile and now that his verdict is overwhelmingly in favor of mechanical power as against animal power, it would seem that the motor car industry is certain to gain a new impetus therefrom as it could gain in no other way.

Amcoats Scotch Shorthorns.

One of the attractions of the Amcoats Shorthorn sale which will be held on the home farm near Clay Center on Tuesday, February 21, will be the young bull Orange Lord, who is said to be about the best thing that will be offered in the sale ring this year. Then there are five choice young bulls by Scottish Archer Marr. The cows and most of the heifers will be bred to the new herd bull, Whirlwind, 334380, who is ranked as the best son of J. F. Stedder's wonderful bull, Captain Archer, and out of a Goday cow. Here is Scotch blood in plenty. The offering will include a number of animals from the famous old herd of F. M. Gifford than which there is none better known among the older shorthorn breeders of the country. Red Knight, the Gifford herd bull, will be well represented in this sale. The seven Scotch cows with calves at foot should also prove a feature of this sale. These cattle are all doing well and should bring together a fine lot of buyers. Remember the date and be on hand. If you cannot attend the sale Jess R. Johnson will handle the bids for you and do it right.

Send your name and address to the Gardner Nursery Co., Osage, Iowa, for 2 Free giant "Blizzard Belt" strawberry plants (worth 30 cents) and free catalog telling all about strawberry growing—when to plant, where to plant and how to plant; also how to cultivate and care for strawberries for market. Giant "Blizzard Belt" strawberries are the largest and finest berries yet produced. No strings to this offer; just send your name and address today if you are really interested in raising money making strawberries and The Gardner Nursery Co., Osage, Iowa, will send you 2 Giant plants to test entirely free of charge. If you care to send 10 cents to cover packing and postage they will also include two 2-year-old evergreens and send both the plants and trees to you at proper planting time in the spring.

Heider Eveners Save Your Horses and Labor.

One is forced to admit that Heider Eveners are the best that skill and brains can produce. Thousands of them are now being used by the farmer and they are as remarkable an invention as the farmer has been blessed with in a long time. In comparing them with other eveners you will

find none so perfect—none so substantial—none so satisfactory. They are made for 2, 3, 4, 5 or 6 horses. Heider 4 horse plow eveners work 4 horses abreast on gang, sulky or disc plows—one horse in furrow—3 on land. They also manufacture wagon double trees, single trees, neckyokes, etc. They have the largest factory in the evener line in the world. If your dealer can't supply you with Heider Eveners write the factory and they will tell you where you can get them. Heider Mfg. Co., 126 Main St., Carroll, Iowa.

Convict Labor on Roads.

In a message which the Grand Rapids Herald calls "a dynamic document, well worthy the thoughtful consideration, not only of every legislator, but of every citizen of the commonwealth," Governor Osborn of Michigan makes the following recommendation with reference to the employment of convict labor on roads: "I desire especially to call your attention to the profitable achievements of the Detroit house of correction as an illustration of what may be done in the way of prison labor. The problem of convict employment is one of the most difficult to solve. In several states convict labor on the public highways is employed to advantage. The Colorado honor system seems to be especially good. I hope convict labor on the roads will be given a fair and fair trial in Michigan. Contractors have reaped profit at the expense of Michigan taxpayers. I hope that out of the especial study of this matter, directed by and arranged for by the last Legislature, much good shall come."

How to Buy Vehicles.

Buy direct when you can. This means that you are then buying the best with the least amount of money. If you buy direct, you are really making what you usave, and what is saved is made. This saving represents at least $15 to $30 on a vehicle. Next, you must select a reliable house—one that gives you only what they claim to give and claim to give only what they do give for your money. Twenty-five years of continued success in selling direct and hundreds of thousands of users of Murray vehicles have made The W. H. Murray Mfg. Co. They sell direct—on trial, guarantee their product and guarantee safe delivery. If goods are not as represented, every cent of money paid is refunded on return of the goods. You are protected from every angle. You have at your command for your guidance an dassistance in saving money Murray's 25 years of experience and their reliability. They will send you a catalog free, and will explain everything to you—how vehicles are made, how you can save 30 per cent on a buggy; how styles are arranged, how parts of different styles can be arranged to create the kind of vehicle you favor most. Mail postal card now for catalog to The W. H. Murray Mfg. Co., 356 East Fifth street, Cincinnati, Ohio.

The "Pure Seed Man's" New Book is certainly different from the many other seed books that come to our desk. When a book or letter is written by a man who has a thorough personal knowledge of his business and adds to that knowledge his best painstaking effort, the result is interesting reading. In this particular seed book one reads living, breathing pages. Not the usual stereotyped technical terms of the seed trade, but the heart to heart talk of a man who talks and writes of his seed business, his long experience and his life in general in a way that makes you at once feel and see that profit in business is not the only consideration a man may have for living. There are many things in the seed business that are important for every farmer to know. Many of these things do not show on the outside and neither is it easily possible to learn them. Many of these very important things are put into understandable English in the Pure Seed Man's new book. To get a free copy of it write the Shenandoah Pure Seed Co., Shenandoah, Ia., and mention this paper when writing.

Learning Differences.

If we all know about the best things in every class of all the things useful to man, we would all live a great deal happier, earlier and be able to accomplish more to show that we lived in the world and were fully worth while during the time we lived. Every once in a while some man discovers and makes known some valuable piece of information as well as a valuable article. It sometimes costs money to do this and oftne there is little or no reward for what is a real public service. The Central West knew for years about catalpa trees. Thousand sof people think of catalpa as they remember seeing trees—low, squatty, crooked and scraggly. Good enough, perhaps, for shade but useless for anything else. On this account many persons in all parts of the country have a poor opinion of catalpa. But J. Moncrief, president of the Winfield Nursery Co., Winfiled, Kan. ,a number of year sago found there was a catalpa tree that as a forest tree has no superior as a fast grower and as a tree to make lumber, posts and poles in a few years. It is Catalpa Speciosa. It was Mr. Moncrief who first made known in the West the difference between the false and the genuine. And his reward for his efforts in growing only pure stock from government tested seeds has been a wide sale of the genuine catalpa. His nursery now has over 5,000,000 of these trees and they are a superb sight. Mr. Moncrief has published a book, "The Bulletin of Information on Profits in Catalpa Culture." Every farmer should have this book. It is of vital interest to all farmers in the corn belt. It shows the necessity for tree planting if our children are to have lumber to use. It tells how to get quick returns from tree planting and how we who plant the trees now may profit from our work in our own lives' time. Kansas Farmer urges all its readers to write Winfield Nursery Co., Winfield, Kan. ,at once and thus get Mr. Moncrief's great little book free.

Hautain, (75005) 63719—Champion Stallion at Kansas State Fair, Hutchinson, 1910. Second prize at American Royal. Weight 2050, 3 years old. Owned and exhibited by Geo. B. Ross, Alden, Kas. Breeder of high class Percherons.

Royal Scion Duroc Sale.

G. W. Norman, owner of the Royal Scion herd of Durocs at Winfield, Kansas, had a very satisfactory sale on February 1. Mr. Norman is comparatively a young breeder but the results of this sale indicate that he has started right. He sold a total of 37 head at an average of nearly $30, which is pretty good and he has a right to congratulate himself on results. His eight tried sows averaged $49.25. The twenty-one gilts averaged $24.95 and the eight boars averaged $23.06. The sales were as follows:

No.
1. Jas. Fair, Guda Springs, Kas....$46.00
2. H. A. J. Coppin, Potwin, Kas..... 62.00
3. Sam'l Drybread, Elk City, Kas.. 70.00
4. Arthur Graham, Winfield, Kas 40.00
5. H. A. J. Coppin..... 48.00
6. T. P. Hales, Winfield, Kas.... 37.00
7. Lee McClellan, Winfield, Kas.... 40.00
8. C. D. Gidden, Winfield, Kas.... 31.00
9. B. L. Wilson, Winfield, Kas.... 35.00
10. M. Ellinger, Winfield, Kas.... 26.00
11. W. A. Shafer, Newkirk, Okla.. 34.00
12. T. P. Hales..... 31.00
13. B. L. Wilson..... 26.00
14. C. L. Ticer, Harrah, Okla..... 34.00
15. Sam. Boyd, Winfield, Kas..... 20.00
16. Jas. Fair..... 25.00
20. J. A. Miller, Winfield, Kas.. 24.00
21. P. A. Montz, Winfield Kas.... 21.00
24. T. P. Hales, Winfield, Kas.... 22.50
25. B. L. Wilson..... 27.00
26. B. L. Wilson..... 20.00
27. Ed Orr, Winfield, Kas..... 16.00
29. B. L. Wilson..... 18.50
30. Ed Orr..... 19.00
31. B. L. Wilson..... 22.50
34. Sam'l. Drybread..... 27.00
35. J. C. Schantz, Winfield, Kas..... 27.00
37. Fred Rhue, Great Bend, Kas.... 30.50
38. B. L. Wilson 20.00

Boars.

12. S. P. Ishmiel, Kiowa, Kas..... 40.00
23. B. L. Wilson..... 20.00
40. C. L. Ticer..... 25.00
22. T. L. Halverstock, Winfield, Kas 27.00
28. C. L. Ticer..... 18.50
17. Fred Rhure..... 20.00
33. R. H. Duncan, Winfield, Kas.... 17.50
19. Chas. Fair, Cuda Springs, Kas.. 16.50

Great Poland China Sale—50 Head Average $96.55.

On February 8, W. B. Wallace of Bunceton, Mo., pulled off a record-breaker Poland China sale. The offering was good and the sale was well advertised. Breeders were in attendance from several states, and sows bred to the Missouri Champion were in great demand. Following is report of sales:

No.
1. Nelson Leonard, Bunceton, Mo.$250.00
2. Dr. A. W. Nelson, Bunceton, Mo. 147.50
3. Barnes Formes, Mukogee, Okla. 180.00
4. Col. C. E. Bean, Garnett, Kas. 175.00
5. Barnes Formes 210.00
6. C. J. Baker, Butler, Mo..... 140.00
8. Dr. A. W. Nelson..... 130.00
9. Barnes Formes..... 125.50
10. H. C. Dawson & Son, Endicott Neb 110.00
13. C. E. Betherts, Shelbyville, Mo.. 132.50
14. Phil Adams, Alterville, Mo.... 110.00
15. Phil Adams, Alterville, Mo..... 180.00
16. L. L. Tucker..... 60.00
18. C. S. Nevins, Chiles, Kas..... 80.00
19. Folk Bros. Richmond, Mo..... 65.00
21. R. S. Harriman Pilot Grove, Mo..... 65.00
22. R. S. Harriman, Pilot Grove, Mo. 72.50
23. J. S. Hall, Bunceton, Mo..... 92.50
24. R. S. Hartman..... 97.50
25. P. McClain, Pilot Grove, Mo.. 117.50
27. L. M. Monsees, Smithton, Mo.. 125.00
28. J. H. Hawkins, Bunceton, Mo. 75.00
30. E. McDonald, Hillsboro, Ill.... 105.00
36. E. McDonald, Hillsboro, Ill.... 65.00
31. C. H. White, Burlengame, Kas. 80.00
32. D. S. Bartelds, Sedalia, Mo.... 105.00
35. W. A. Baker, Butler, Mo..... 87.50
36. C. N. Menefee, Prairie Home, Mo 70.00
37. C. N. Menefee, Prairie Home, Mo 85.00
44. C. S. Nevins..... 60.00
45. J. E. Armstrong, Bunceton, Mo. 75.00
46. H. W. Fristoe, Windsor, Mo.. 65.00
49. Col. C. E. Bean..... 140.00
50. L. B. Gregg, Armstrong, Mo.. 127.50
51. Barnes Formes..... 100.00
52. Henley Ranch, Greencastle, Mo. 75.00
53. Roy Johnston, Southmound, Kas..... 77.50
54. J. C. Hall, Rockport, Mo..... 85.00
55. W. L. Lockridge..... 65.00
57. R. S. Harriman..... 65.00
58. Walter Amick, Windsor, Mo.. 92.50
59. Roy Johnston..... 107.50

The Topeka Horse and Jack Sale.

The Kansas Public Sale Company will hold their public sale of draft horses and jacks in the New Pavilion at the Fair Grounds on Thursday, February 23, 1911. This combination sale is made up of over fifty head of draft horses and mares, with a full car load of Kentucky jacks from 2 years olds up, extra nice fresh young fellows that are the kind to own. They are now at the Pavilion and you can buy some at private sale if you prefer. The draft horses are largely Percherons, an extra good lot of stallions and as good a bunch of Percheron mares as you will ever have a chance to buy at public vendue. Most of these mares are in foal and of course are of suitable age for work of all kinds. This will be a good clean sale where buyers will be protected in their purchases and offers an opportunity seldom equalled to procure the best at your own price, right at the time of year they are wanted. The sale being held in the big Pavilion guarantees comfort regardless of weather conditions. Tie a string on your finger so that you won't forget the day and date. Catalogues are ready and will be mailed on application only by addressing O P. Updegraff, manager.

Graner's Poland in Demand.

H. C Graner's Poland China bred sow sale held at Lancaster, Kan. on Thursday last, was one of the most successful of the season. Mr. Graner's neighbors bought liberally and at good prices. There were also present or represented by mail bids some of the best breeders of three states. The tried sow Prima Bell topped the sale at $150, which amount was paid for her by Lee Gross, Nodaway, Mo. Her spring gilt sired by Colossus topped the gilt division at $102.50 and was bought by Frankie Walker, the little son of H. B. Walker of Effingham, Kan. The 49 head averaged $44.25. The fall boars ranged from $16 to $31, the top which was paid by N. C. Milligan, Clay Center, Kan. for the first choice of the litter of Prima Bell and sired by Guy's Monarch. Representative sales were as follows:

No.
1. Lee Gross, Nodaway, Mo.....$150.00
2. M. J. Hines, Lancaster, Kan... 55.00
3. Jack Gregg, Lancaster, Kan... 60.00
4. Roy Johnston, South Mound, Kan..... 46.00
5. M. C. Vansel, Muscatah, Kan... 69.00
6. J. H. Harter, Westmorland, Kan..... 71.00
7. H. B. Walter, Effingham, Kan. 52.00
8. Richard Kopp, Lancaster, Kan. 71.00
9. John D. Ziller, Hiawatha, Kan. 69.00
11. Frankie Walter, Effingham, Kan..... 102.00
12. E. H. Harlsen, Moranta..... 44.00
13. T. J. Miesner, Sabetha..... 100.00
14. Geo. Smithton, Farmington.... 46.00
15. H. A Woods, York Neb..... 41.00
16. Smith Bros., Cleburn..... 43.00
17. Jas. E. White, Amber, Okla.... 48.00
19. W. C. Milligan, Clay Center.... 45.00
20. Albert Meyer, Huron..... 40.00
21. Roy Johnston..... 48.00
22. Peter Jacoby, Cummings..... 62.00
23. A. F. Bushong, Everest..... 44.00
24. J. H. Harter..... 49.00
26 Chas. Moore, Muscatah..... 46.00
27. R. M. Bonnell, Atchison..... 41.00
28. John Sextant, Atchison..... 48.00
29. Herman Gronniger & Son, Bendena 60.00
30. Gus Juencke, Farmington..... 52.00
32. Chas. Gregg..... 59.00
33. R. M. Bonnell..... 50.00
34. A. F. Bushong..... 42.00
35. George Waltz, Lancaster..... 46.00
37. Chas. Matthews, Huron..... 45.00
38. Chas. Spencer, Doniphan..... 42.00
40. Albert Meyer, Huron..... 49.00
41 Boar—W. C. Milligan..... 31.00
43. Boar—Deitrich & Spaulding, Ottawa 31.00

Geo. M. Hull Makes $50 Average.

On February 10, George M. Hull of Garnet, Kan. pulled off one of the good bred sow sales of the season. The entire offering was the best Mr. Hull has ever sold, and the prices received were very satisfactory to Mr. Hull. Several breeders were present and the local support was good. Roy Johnston of South Mound, Kan. topped the sale on No. 33 at $97.50. Following is report in full:

No.
1. J. C. Chapman, Lone Elm, Kan.$47.50
2. Joe H. Hemmy, Williamsburg, Kan..... 66.00
3 Roy Johnston, South Mound..... 74.00
4. D. V. Stoll, Lone Elm, Kan..... 70.00
5. S. N. Hodgson & Son, Parker, Kan..... 76.00
6. John Bennett..... 49.00
7. S. N. Hodgson & Son..... 60.00
8. Joe H. Hemmy..... 59.00
9. C. S. Nevins..... 60.00
10. Roy Johnston..... 70.00
11. W. B. Vanhorn & Son Overbrook. 61.00
12. Deitrich & Spalding, Ottawa, Kan..... 55.00
13. W. B. Wallace, Bunceton, Mo... 50.00
14. W. B. Wallace..... 45.00
15. H. H. Perkins, Garnett, Kan.... 56.00
16. J. S. Thompson, Girard, Kan.... 57.00
17. John Tyson, Greenwood, Okla.. 43.00
18. J. S. Thompson..... 44.00
19. John Peney, Garnett, Kan..... 36.00
20. Wm. Knight, Garnett, Kan.... 46.00
21. John Tyson..... 39.00
22. J. E. Bundy, Parker, Kan..... 47.00
23. Chas. Moberly, Harris, Kan..... 39.00
24. E. P. O'Neil, Williamsburg, Kan. 41.00
25. Chas. Moberly..... 44.00
26. H. E. Perkins..... 42.00
27. Joe Hemmy..... 81.00
28. T. R. Culver, Garnett, Kan.... 28.00
29. A. H. Wetherd, LeRoy, Kan.... 25.00
30. J. S. Miller, Garnett, Kan..... 60.00
31. J. E. Bundy..... 59.00
32. S. D. Yoder, Garnett, Kan..... 67.50
33. Roy Johnston..... 97.50
34. John Peney..... 36.00
35. D. V. Stall..... 29.00
35½. J. S. Carter, Garnett, Kan..... 32.00
36. D. V. Stall..... 47.50
37. James Stevers, Garnett, Kan 30.00
38. Roy Johnston..... 46.00
39. D. V. Stall..... 50.00
40. J. S. Thompson.....45.00
41. Eugene Stevenson, Garnett..... 35.00
42. Jas. Chapman..... 31.00
43. W. B. Frock, Garnett, Kan..... 35.00
44. H. Hohenstein, Chilsia, Okla... 30.00
45. Fred Reeves, Garnett, Kan..... 35.00
46. H. Hohenstien..... 32.00
47. Joe H. Hemmy..... 28.00
48. S. D. Yoder..... 50.00
49. Dietrich & Spaulding..... 70.00
50. D. V. Stall..... 62.50

50 head sold for $2,500, average $50.00.

Ross and Long's Average.

The Ross and Long joint sale of big Poland China bred sows, held at Valley Falls, Kas., was one of the best held so far this winter. Both gentlemen presented their stock in excellent breeding condition, but a number of Mr. Long's were bred late, which fact cut the average a trifle. Mr. Ross's herd boars were both included in the sale, Ross Hadley going to John Coleman, Dennison, Kas., for $50, and Western Expansion to Jos. McQuaid of Seneca, Kas., for $96. John Bolline of Leavenworth topped the sale at $88, buying No. 3, Minnie Price by Price We Know. Colonel Jas. W. Sparks made the sale.

No.
1. John Coleman, Dennison,, Kas..$50.00
2. Jos. McQuaid, Seneca, Kas..... 96.00
3. John Bollin, Leavenworth, Kas. 88.00
4. John Bollin..... 45.00
5. H. C. Fletcher, Valley Falls.... 70.00
6. H. C. Fletcher..... 74.00
7. Gus Aaron, Leavenworth, Kas. 80.00
8. Robt. Miller, Atchison, Kas.... 70.00
9. Alex. Richards, Valley Falls.... 71.00
10. H. C. Graner, Lancaster..... 70.00
11. J. A. Broze, Valley Falls..... 61.00
12. Fred McClery, Valley Falls.... 59.00
14. Jos. Schneider, Nortonville..... 53.00
15. Walter Fletcher, Valley Falls.. 50.00
18. D. F. Graves, Valley Falls..... 58.00
26. B. F. Thompson, Havensville... 75.00
27. Edw. Welter, Flush..... 66.00
28. H. B. Walter, Effingham..... 70.00
29. Fred McClery..... 66.00
35. C. O. Frazer, Birmingham..... 66.00
36. Chas. Mitchell, Valley Falls.... 61.00
37. Chas. Mitchell..... 50.00
Average on 49 head..... 58.47

Pilcher & Logan Polands.

One of the best offerings of Poland China bred sows that has been made this winter is the one that C. H. Pilcher, Glasco, Kas. and E. C. Logan, Beloit, Kas., will make at the fair grounds,, Beloit, Kas. Both are well and favorably known as Poland China breeders of long standing. Mr. Pilcher has an enviable reputation as a successful showman, and Mr. Logan, while not as active as a showman has attracted attention with his Polandds and has been engaged in the business in Mitchell county for a number of years. His fine Solomon valley farm that lies three miles west of Beloit is well adapted to the business and is the home of some of as good individuals as will be found anywhere. This sale is a draft of forty head from the two herds and is without question one of the strongest offerings that will be made this season. There will be thirty March and April gilts and ten tried sows. The thirty gilts are the pick from the two herds and combine size with quality that will suit the most exacting. The gilts are by Winning Graniteer, First Choice, Conqrerer, Impudence E. L. and a number of other great herd boars. The tried sows are by Winning Graniteer, Skylark, Conquerer, Kansas Medium and others. They are all bred for March and April farrow to one or the other of the herd boars. Beloit is easily reached from almost any point and hotel accommodations will be provided free. It is going to be a good place to buy bred sows at a sale where the men back of them are well known breeders. Catalogs are ready and free for the asking. Address either breeder for one. Send bids to Jesse R. Johnson, Beloit, Kas.

H. R. Bomhoff, breeder of White Wyandottes, has some very choice stock. Look up his ad in this paper.

W. A. Smith, Black Langshan breeder, at Pittsburg, Kan., has the goods in fine colored, good-shaped birds. All farm-raised. He advertises in this issue of Kansas Farmer.

Many hundreds, even thousands of our readers are going to buy pure-bred Seed Corn and Seed Oats this spring. Have you any to sell? Offer them through KANSAS FARMER'S advertising column. Others are selling their surplus pure-bred Seed Corn and Seed Oats, to good advantage, through this paper. Look up their ads. Most of them have been advertising here for years. Ask them about results. Better yet, send a trial ad and prove for your self that KANSAS FARMER will bring you a paying business. Or write us what you have, and let us suggest how to advertise it. We write the advertising matter free of charge, where it is desired.

KANSAS FARMER, Topeka, Kas.

New Shorthorn Herd Book.

Volume 75 of the American Shorthorn Herd Book containing the pedigrees of 8,000 bulls, numbered from 316,001 to 324,000, also the pedigrees of 12,000 cows, numbered from 58001 to 70,000 is now ready for distribution to shareholders. The price of this volume to non-members will be $2.00 at the office of the Association, or $2.30 prepaid. Volume 76, containing the pedigrees of 9,000 bulls, numbered from 324,001 to 333,000,, and 11,000 cows, numbered from 70,001 to 81,000 has gone to press. Volume 77, containing 20,000 pedigrees has been closed, and the current receipts of pedigrees are being filed for volume 78. Address Secretary John W. Grove, Stock Yards Station, Chicago.

Vanhooser Sale Good.

The Poland China sale of H. B. Vanhooser at Eldon, Mo., was attended by a large crowd of breeder. About 100 head of fall pigs were sold at about $18.00 per head average. Many of the bred sows were real bargains and were snapped up by breeders who knew their value. Following is report of the bred sows and gilts:

No.		
1	J. E. Mathews, Burbank, Okla..	$502.50
2.	C. G. Sparks, Marshall, Mo.....	63.00
3.	C. G. Sparks, Marshall, Mo.....	83.00
4.	B. H. Colbert, Tishamingo, Okla.	87.50
6	C. G. Sparks.....	102,50
7.	Morton Bros., Tampa, Kas....	61.00
8.	F. J. Miller, St. John, Kas....	42.50
9.	E. A. Greger, Warsaw, Mo....	37.50
10.	C. G. Sparks.....	60.00
11.	Morton Bros.	40.00
12.	C. G. Sparks.....	37.00
13.	Albert Wellrute, Chesterfield, Mo	80.00
14.	A. R. Grandstaff, Eldon, Kas..	45.00
18.	C. G. Sparks.....	35.00
19.	A. R. Grandstaff, Eldon, Mo..	45.00
20.	E. A. Greger.....	30.00
28.	Charles Dooley.....	25.00
19.	Wm. Harrison, Eldon, Mo....	34.00
37.	Fred Elter, Eldon, Mo.....	27.00
38.	H. A. Schendal, Rendell, Minn.	25.00
40.	Allen Oviatt, Eldon, Mo.....	32.00
41.	F. J. Miller, St. John, Kas...	31.00
42.	D. Wagner, Olean, Mo.....	30.00
43.	B. C. Harrison.....	28.00
47.	Fred Elter.....	28.00
48.	Albert Halbertson, Eldon, Mo..	26.00
49.	W. S. Burlengame, Eldon, Mo..	27.00
50.	Dr. G. A. Walker, Eldon, Mo..	39.00
51.	A. Wilmont.....	36.00
52.	A. Wilmont.....	32.00
29	bred sows and gilts average....	$ 43.51
	herd boar sold.....	502.50

30 head sold for $1,764.50, average $58.81.

For Horse Lameness

A treatise on how to cure positively Horse Lameness and Lump Jaw, which is of value to every farmer, has been brought to our attention. Too many fine horses and cows have been lost through neglect. Veterinary doctors know that every horse "goes lame" sooner or later for anyone of a dozen reasons. It may be spavin, thorepin, curb, shoe boils, ringbone, capped hock, bog spavin, wind gall, collar boil, sweeney, enlarged glands or fatty tumor. As you can never know just when a horse is going lame, the safe plan is to keep a reliable remedy on the shelf always. Remov-All and Remov-All Salve are reliable remedies which are positively guaranteed. The manufacturers also guarantee that Remov-All contains no turpentine or any acid; so it cures without leaving bald spots or white hairs. One important advantage of Remov-All is that your horse should be worked during treatment. That's a great advantage to you, especially during the busy season. The manufacturers, the H. C. Adams Mfg. Co., 23 Algona, Iowa, offer you a bottle of this famous Remov-All, a box of Remove-All Salve, and a brush for applying the former, packed in a dust proof carton and prepaid to you for only $2.00. It may save your lame horse. It has saved thousands of others. Satisfaction guaranteed or your money back.

Here is an interesting fact for corn growers. M. E. A. Allbee, of Montpelier, Iowa, last year raised 80 bushels of corn per acre, while his neighbor in an adjacent field, with exactly the same soil, weather and cultivating conditions, averaged only 15 bushels per acre. The one and only difference was that Mr. Allbee, before planting, tested all his seed corn in Holden's Ideal Corn Tester, while his neighbor planted untested seed. There could not be more striking proof of the neccessity of testing all seed corn. This is not an exceptional case. Hundreds and hundreds of farmers have tested their seed corn with the Holden Ideal Corn Tester, throwing out the weak and dead ears and planting good ones instead, and have doubled and trebled their corn crops. Their near neighbors, who do not test, continue to raise the same old crop of fifteen to eighteen and twenty bushels per acre. The necessity of testing seed corn has been preached for years. It cannot be urged too often or too strongly. The farmers of the Corn Belt ought to take this lesson to heart. They must test their corn and plant seed that will grow and produce ears if they are going to increase their yields. The Holden Ideal Corn Tester make the true germination test. It does unerringly point out the good, strong ears that are sure to grow. It does just as surely point out the ears that ought to be discarded. Its use is a simple matter. A little work at night before planting time is all that is required. The work pays and pays big. It surely results in two stalk hills instead of so many one-stalk and no stalk hills. It is worth while to remember that two good, ear-bearing stalks to each hill means not less than 80 bushels per acre. Some mighty interesting information along this line is being sent out on request by the National Seed Tester Company, 1127 Walnut Street, Des Moines, Iowa. Their guide on corn testing is free. Send them a postal or letter for it and it will come by return mail.

H. Conyers of Pittsburg, Kan., has proven that he has the goods, winning silver cups and specials on his birds in the largest shows in southeast Kansas. Look up his ad.

Mrs. Culver's Poultry.

Mrs. Mary Culver of King City, Mo., is a new advertiser in the Kansas Farmer and we call attenion to her advertisement in the poultry column. Mrs. Culver has had ten years' experience as a breeder of thoroughbred poultry and during that time has been noted for her prize winning birds. At present Mrs. Culver is making a specialty of White Holland turkeys, Single Comb White Leghorns and Indian Runner ducks and has a very large number to select from. The long list of prizes captured by Mrs. Culver at the leading poultry shows of the country during the past years is a guarantee that no mistake can be made in securing breeding stock from her pens, and it must be remembered that her birds won largely at the 1910 exhibits. Mrs. Culver has issued a catalog. If you want the best, ence, send to Mrs. Culver for price list and let her select your stock.
bred by a specialist with years of experi-

Large Profits With Less Work.

When slaughtering time comes around the farmer appreciates such labor-savers as the "Enterprise" butchering outfit. This outfit consists of the "Enterprise" Meat and Food Chopper and the "Enterprise" Sausage Stuffer and Lard Press. These machines raise the quality of your sausage and lard, enable you to command higher market prices, and do away with much of the hard work of hog killing. The "Enterprise" Meat and Food Chopper, used in sausage making, is the only chopper that cuts without tearing or crushing, so that the meat retains all its juice and natural flavor. It does the work much quicker and better than the old hand chopper or the ordinary cheap "crusher," and it is also useful in the kitchen every day in the year. The "Enterprise" Sausage Stuffer and Lard Press (two machines combined int one) eliminates nine-tenths of the hard work of sausage stuffing and lard rendering. This machine has a patented corrugated spout that prevents air from entering the casing, thus assuring the preservation of your sausage. It also stuffs the sausage skins much better than any other machine. Used as a lard press, it will give you surprising results—more and better lard than any other machine. From one season's increased profits, by their use, you could more than pay for the "Enterprise" Meat and Food Chopper and the "Enterprise" Sausage Stuffer and Lard Press. They actually pay for themselves. Send your name and address with 4 cents in stamps for "The Enterprising Housekeeper"—a little booklet containing 200 recipes and kitchen helps, and also showing the many uses of the "Enterprise" Meat and Food Chopper. Address The Enterprise Manufacturing Company of Pa., Dept. 56, Philadelphia, Pa.

Home in Ammunition Park.

This incident casts a doubt upon the old-time theory that game scent danger in the smell of powder. Within the confines of a park consisting of 370 acres of wild land is located the powder magazines and shooting range of the Union Metallic Cartridge Company. This park is completely enclosed by a fence five miles long, which, with its barbed wire attachment at the top, measures fully 6 feet high. The surrounding country, too, is more or less wild and naturally abounds with game. Whether they were attracted by the odor of the tons of powder stored in the numerous U. M. C. vaults or simply possessed of a desire to enjoy the exclusiveness that the forbidding fence suggested, is a matter of conjecture. Yet, the fact remains that one morning, about a year ago, a doe was discovered complacently pawing the ground on the interior side of the U. M. C. fence. About a year later it was joined by a buck, and then a short time after the family was increased by the arrival of a fawn. Quite recently, the employees of the U. M. C. factory were surprised to see that the group of invaders had increased to six, another fawn, doe and buck having joined them. All approaches and entrances to the park being carefully guarded, the only way the deer could have possibly entered was by leaping the 6-foot fence. So acclimated have they become and so absolute a disregard for the explosion of ammuniton do they display, that frequently, during the testing of the 1,000 yard range, where both targets and shooters are located on hills, it is actually necessary to drive them from within the line of fire.

Roup and Cholera Bad.

Speaking of roup and cholera, Mrs. A. L. Newell of Chester, Mont., says: "I have been raising poultry for 30 years, and have lost hundreds, and tried many kinds of medicine, but Walker's Roup and Cholera Remedy beats them all. I sent 50c money order to the Walker Remedy Co., No. 90 Main street, Lamoni, Iowa, and out of the 100 sick chicks, only lost two, and they had the roup and cholera as bad as I ever saw. I know there is nothing that will beat it." We recommend that any of our readers who raise poultry look up the advertisement of the Walker Remedy Co. in this issue.

Farmers Ride in Comfort.

Nothing exasperates the farmer so much as jolting and bumping over rough country roads—especially in the winter and early spring. This not only tires his patience, but actually shortens the usefulness of the buggy. Solid rubber tires are now being used by farmers everywhere—farmers who want the best equipment obtainable. These tires are the Twentieth Century way of getting "carriage comfort"—make the drives to town or around the farm a real pleasure. The days of the steel and common rubber tires are rapidly passing away—these tires are being thrown into the scrap heap. Steel tires rust and rot, have no "give," common rubber tires break, tear and come off easily—are liable to leave the user stranded miles from home. Goodyear Wing Tires have won the day—convinced experts and users that they are superior to other tires in every respect, only the very finest quality, live, tested solid rubber goes into Goodyear wing tires. They give the greatest amount of wear because they last longer than other tires. This means a large saving of money in the purchase of each "Wing" tire. No dirt, mud or water get under these tires to rot or "sandpaper" them because the "Wings" are a perfect protection. These "Wings" extend far enough to catch and throw every particle aside. Goodyear wing tires are the latest, most dependable form of quality tire construction. They have every improvement that goes to make up a perfect serviceable tire. Learn more about these tires that have brought comfort to the farmer by addressing the Goodyear Tire and Rubber Company, Akron, Ohio.

T. J. Charles' Sale.

T. J. Charles held his annual bred sow sale at his fine farm home on February 8, which was attended by a large crowd of farmer friends and breeders. The prices paid were not high; in fact, were not nearly as high as the sows deserved. They were a good lot of sows and gilts, although were not carrying enough flesh to bring the high dollar, and they will surely do the buyers good and find them at Mr. Charles 'sale next year. The average was $34.

No.		
1.	Joshua Morgan, Hardy, Neb.....	$35.00
2.	C. A. Cline, Republic, Kan.....	35.00
3.	John Peterson, Hardy, Neb.....	37.50
4.	G L. Van Ornem Republic.....	34.00
6.	M. T. Shields, Lebanon, Kan....	36.00
11.	Frank Millan, Republic, Kan....	41.00
12.	G L. Van Ornem, Superior, Neb...	65.00
15.	A. R. Reystead, Mankato, Kan..	59 00
19.	W. H. Jundiff, Republic.....	36.00
20.	M. T. Shields, Lebonon, Kan.....	31.00
22.	T. M. Willson, Lebanon, Kan.....	46.00
24	W. A. Prewett, Asherville, Kan..	45.00
25.	A. C. Lobough, Washington, Kan.	42.00
26.	G. L. Vandevcer, Republic, Kan..	40.00
30.	Oakhill Stock Farm, Esbon, Kan.	61.00
35.	W. A. Prewett, Asherville, Kan..	41 00
40.	F. C. Swiercinsky, Belleville, Kan.	25.00

W. F. Houx's Sale.

W. F. Houx, Jr., of Hale, Mo., one of Missouri's enterprising Poland China breeders, who has one of Missouri's good herds, held his first annual bred sow sale at Hale, Saturday, February 11 Twelve yearling sows and 18 spring gilts were sold, and while the average was not as high as it should have been for the very excellent draft of pure bred sows and gilts sold, Mr. Houx is in no way discouraged, as he believes that persistence in breeding only the best is bound to win, and he expects to be ready in the fall with another fine lot. Following is a report of sales:

No.		
1.	H. L. Faulkner, Jamesport, Mo..	$39.00
2.	Geo. Hilton, Braymer, Mo.....	35.00
3.	A. L. Townsend, Bosworth, Mo..	35.00
4.	Ed Hoover, Tina, Mo.....	35 00
5.	J. C. Jaggers, Hale, Mo.....	50.00
6.	L. Colbert, Hale, Mo.....	32.00
10.	James Shull, Tina, Mo.....	31.00
12.	James Shull, ...	30.00
14.	J. C Jaggers	30.00
15.	J. C. Jaggers	35.00
16.	Wm. Stebbins	30.00
17.	H. L. Faulkner	34.00
19.	H. J Phippips, Linneus, Mo.....	40.00
21.	Robert Brown, Hale.....	36.00
25.	James Shull, Tina.....	32.00
26.	T. W. Thurlow, Bosworth, Mo ...	31.00
27.	James Dye, Hale, Mo.....	30.00

Albert Smith & Sons' Sale.

On Thursday, February 9, Albert Smith & Sons held one of the most successful Poland China sales that has been held anywhere this year. Just before the sale they drove into the sale ring 50 head of bred sows and gilts, 40 of them being spring gilts. They were the largest and best and most promising lot the writer has ever seen The cross of Jumbo, Jr., on Smith's Big Hadley sows is surely more than could be expected and we predict that the get of Big Sam, their great young herd boar, will be as good as the present cross or better. Col. John Brennan in a little over two hours converted the 50 sows into $3,000, or an average of $60. List of sales follows:

No.		
1.	Thos. Shattuck, Hastings, Neb..	$100.00
2.	Norman Coles, Coal Hill, Ark...	26.00
3.	Oakhill Stock Farm, Esbon, Kan.	91.00
4.	H. B Francisco, Hastings, Neb.	94.00
5.	J. R. Mattock, Bladen, Neb.....	60.00
6.	Wm. Baumgardner, Nelson, Neb.	90.00
7.	A. R. Reystead, Mankato, Kan..	86.00
8	M. Siddle, Superior, Neb.....	72.00
9.	W. A. Prewett, Asherville, Kan.	64.00
10.	W. R. Powells, Superior, Neb...	62.00
11.	W. A. Prewett, Asherville, Kan.	72.50
12.	W M. Powells, Superior, Neb....	50.00
13.	W. E. Boyd	54.00
14.	C. H. Harper, Benklemen, Neb..	62.00
15.	W. N. Charters, Butler, Mo....	60.00
17.	A R. Reystead, Mankato, Kan..	66.00
22.	J. H. Harter, Westmoreland....	68.00
23.	John Brown, Trenton, Neb.....	50.00
25.	T. M. Wilson, Lebanon, Kan....	65.00
29.	J. M. Webber, Tecumseh, Neb..	51 00
31.	Norman Coles, Coal Hill, Ark...	100.00
35.	Fred Soper, Hardy, Neb.....	57.00
37.	S. E. Gress, Superior, Neb.....	53.00
39	F. A. Barrett, Superior, Neb....	60.00
42.	J. E. Wilcox, Superior, Neb.....	62.00
43.	J. F. Lee, Nelson, Neb.....	81.00
44.	A. R. Reystead, Mankato, Kan..	73.00
48.	Oak Hill Stock Farm, Esbon....	71.00

C. S. Nevius Makes Good Sale

Forty-one head average $55.17.

The Poland China bred sow sale held by C. S. Nevius, Saturday, February 11, was as usual a good lot of useful Poland Chinas, not fat but in good breeding condition. The sale was a quick, snappy one and the entire lot was sold in less than two hours. Several breeders from a distance were present and a lot of mail bids were handled by the auctioneer sand ficldmen. Mr. Nevius was well pleased with the results of the sale. Following is a report in full:

No.		
1.	Barnes Farms, Muskogee, Okla..	$70.00
2	Barnes Farms	71.00
3.	W. B. Wallace, Bunceton, Mo.....	72.50
4.	Barnes Farms	71.00
5.	Barnes Farms	80.00
6.	L. V. O'Kief, Stillwell, Kan.....	56.00
7.	Dr Stockton, Gridley, Kan.....	51.00
8.	Barnes Farms	71.00
9.	L. V. O'Kief.....	49.00
10.	George Wedd & Son, Spring Hill..	67.00
11.	Barnes Farms	70.00
12.	L. V. O'Kiefe.....	85.00
13	C. J. Woods, Chiles, Kan.....	55.00
14.	J. R. Nave, Kansas City Mo....	57.50
15.	H. N. Hodges, Gardner, Kan.....	73.00
16.	Barnes Farms	68.00
17.	Marion Lenheart, Greeley, Kan...	100.00
18.	Geo. B. Ross, Alden, Kan.....	75 00
19.	Roy Johnston	75.00
19½.	W. Coster, Chiles, Kan.....	47.00
20.	W. B. Wallace	52.00
21.	Dr. Stockton	53.00
22	H. N. Hedges	41.00
23.	C. J. Woods.....	40.00
24.	Barnes Farms	46.00
24½.	Barnes Farms	52.00
25.	W. T. Bailes, Trappe, Md.....	40.00
27.	Geo. B Ross.....	37.00
28.	W. H. Charters, Butler, Mo.....	42.00
30.	F. E. Moore, Gardner, Kan.....	35.00
31.	George B. Ross.....	36.00
32.	W. B Vanhorn, Overbrook, Kan.	48.00
34.	Barnes Farms	52.00
36.	F. E. Moore	34.00
37.	F. E. Moore.....	46.00
38.	H. Hohenstien	32.00
38½	Barnes Farms	50.00
40.	L. V. O'Kiefe.....	44.00
43.	W. A. Way, Douglas, Okla.....	45.00
44.	W. Coster	33.00
45.	W. B. Vanhorn.....	52.00

Clipper Windmills.

As advertised in this paper, every Kansas farmer has the chance to buy better windmills for less money. The Clipper mill is entirely of steel. Only nine parts of the engine—only nine parts to wear—and they are amply protected by up-to-date oiling devices. All gears are enclosed, thus avoiding all danger from getting caught in gearing when oiling or setting up the mill. Beside, snow and ice will never clog the gearing. No necessity for climbing the tower in icy weather to knock out ice from the gearing before the mill can start. The piston on this mill pulls on a direct line on the up-stroke. This gets all the power out of the wind without loss by undue friction. The whole mill is perfectly balanced on the turntable. It will, therefore, face into the lightest wind and when running the regulation of the mill is entirely automatic. It will stay in the wind and pump in hard winds as well as in light winds, for it pulls into the wind when running and not out of it, as many mills do. There is not a better chance to get better mills for low prices than the one open to every farmer by writing to the Clipper Windmill and Pump Co., Topeka, Kan Kansas Farmer is glad to recommend the company and their mills.

Inside Facts on Fencing.

The buying of fencing is becoming a serious matter with the farmer nowadays as it is becoming more and more apparent that while the cost of fencing is increasing the quality of the product, in most instances, is not keeping pace with the advance in price. Fortunately this is not true of the Brown fencing as is clearly shown in a convincing little booklet on fencing written by Mr. Brown himself and sent free upon request to anyone addressing Brown Fence and Wire Co., Dept. 39, Cleveland, O. This booklet goes fully into the matter and gives the reader all the inside facts, usually treasured as trade secrets, shows him why he should avoid the lure of the cheap, trashy, lightly stayed and poorly galvanized fencing that will not wear or retain its shape and just why he can depend on the Brown Fence and Wire Co.s fencing. A fencing made on honor of the strongest and best material purchaseable and by the highest grade of skilled labor obtainable. A fence that won't sag and won't rust but will wear and stand up like a stone wall.

Low Wagons Versus High Wagons.

If you were going to haul stone, brick, earth or manure, which would you rather load them on, the low down wagon or one with wheels 42 to 50 inches high? There can be but one answer. The case is the same with lumber, barrels, fence posts, fence wire, boxes, sacks of grain, potatoes. It is the same with corn fodder, with grains, with hauling hogs to market. It is the same with every kind of hauling on the farm. We wish the readers of this paper would ask themselves and seriously consider this question, and see if they can find a satisfactory answer: "What single good reason is there why the low down, handy wagon, with broad-tired steel wheels should not be universally used for farm work?" If you want to get some up-to-date ideas along this line, some that will surely interest and profit you, take this matter up with the Electric Wheel Company If you need a new set of wheels, that, too, is in their line. They will guarantee to fit your old running gears with their Electric Steel Wheels, and make practically a new Handy Wagon out of it. Write them before you settle down to your summer's work. If you purchase one of their Handy Wagons, or a set of their steel wheels for your old wagon, we know you will never have occasion to regret it.

Seventy-Five Years of Achievement.

Seventy-five years ago, Stephen Bateman started a little industry in Spring Mills, N. J. (now Grenloch), and he started right. It was his idea that in business quality counts above everything else—that a good tool always commands a market—that a cheap tool is not good at any price. As a result there is located in Grenloch, N. J., today, a factory that covers several acres, making and selling each year more and more of the famous "Iron Age" farm and garden tools. From time to time many new time and labor-saving tools have been brought out. Stephen Bateman was born on a New England farm at the close of the 18th century and gained a farmer's practical and valuable training until 1821, and between that time and 1836 studied and learned the business for manufacturing for farmers' needs. In that year, 1836, he started the old mill, making hay and manure forks. The potato "drag," which was really the first potato digger, was the work of Stephen Bateman. Hand garden tools with cast-iron frame and hoes or teeth, which had to be pulled with a load on them to get deep cultivation, came in the early 40's. Then came hand garden rakes and one-horse cultivators with wood frames. In 1863 Stephen Bateman was succeeded by his sons, Frank and Edward S., and the business continued along the same broad quality-giving lines. About 1875 came the famous line of Iron Age wrought-iron one-horse cultivators; then came "Model" drills and "Gem" wheel hoes. The last 15 years have produced a complete line of potato and general farm and garden machinery, including riding cultivators, potato planters (Improved Robbins), sprayers, diggers, orchard and beet cultivators, horse rakes (New York Champion), variety machines and the modern line of garden wheel hose and drills. Readers of Kansas Farmer should write to the Bateman Mfg. Co., Grenloch, N. J., for a copy of their beautifully illustrated 75th anniversary catalog. It will be mailed free, postage paid, to any address, and is well worth sending for.—Adv.

Even in this delightful weather, when everything seems so pleasant, it is a very poor policy to leave the highly sensitive milk cow without shelter over night. It may save feed and it may save labor, but it will surely cost a decrease in the milk supply and when a cow once starts downward in her flow of milk it is practically impossible to reform her during that lactation period. Not only should every milk cow be provided with shelter every night, but she should have ready access to shelter during the day time in case of sudden storms or change of temperature. This applies equally well to beef cattle, though the results of careless handling are not so quickly noticeable as in the case of the milk producer.

If you always conduct yourself right you may never have to run for office.

Most Wonderful Offer Ever Published

Great 1911 Price Wrecking Sale of Brand New Staple Merchandise

Our Reliability is Unquestioned

Our capital stock and surplus in excess of $1,000,000.00 is proof of our responsibility. Any publisher of any paper in America will tell you that we "make good" on every statement. Write to the greatest bank of the west—The Commercial Continental National Bank of Chicago—or to the Drovers Deposit National Bank of Chicago, or any of the commercial agencies.

A Positive, Binding Guarantee

Every article bought of us is guaranteed a decided bargain. If any article does not please you or fails to come up to your expectations, then you may return same at our freight expense both ways, and we will refund your money in full.

CHICAGO HOUSE WRECKING COMPANY

Guarantees a Saving of 30 to 50 Per Cent

Of all our wonderful offers of the past, none are greater than those published in this advertisement. This Company is known far and wide as "The World's Bargain Center." Our success proves the truth of the public's decision.

During the past six months we have inaugurated a buying campaign that has placed us in possession of the largest stock of merchandise ever gathered together by any one institution. We have searched the markets of the world for the best bargains obtainable. The proof of this fact is seen in this 1911 announcement.

Our Stock Includes Everything Under the Sun

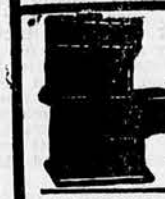
It means, in fact, everything from a needle to a locomotive. It makes no difference what your requirements, we can supply them at bargain prices. Briefly outlined, **we sell everything to eat, wear, furnish, equip or manufacture.**

Our Great "Price Wrecker"

Under this heading we publish a mammoth 1100-page Catalog of bargains. It describes 300,000 new articles secured by us from *Sheriffs', Receivers' and Manufacturers' Sales.* Gives interesting facts as to our past history and makes you acquainted with the greatest Commercial Institution in Chicago.

1100 Pages of Bargains

We send this catalog to you without obligation of any kind. It contains illustrations true to life of everything the manufacturing world produces; it gives plain, straight from the shoulder descriptions—shows in colors handsome floor coverings, clothing, etc. All you need to do is to fill out the coupon below, or merely drop us a card and the book will be forwarded to you at once, all charges prepaid.



GEM STEEL RANGE

1-PW521. Empire Gem Steel Range, guaranteed in every way. Neat appearing and first-class baker. Price No. 8-10 as illustrated, with reservoir, high closet. Price **$19.15**

Price without reservoir and high closet $12.50

SUPERIOR GASOLINE PUMPING ENGINE

The finest ever for pumping water, running cream separator, etc. Complete with trimmings. Full instructions for installing and operating. Sold on thirty days free trial. 2 H.P. Price **$36.00**

4 H.P. Price $64.00

LADIES' ALL-WOOL SKIRT

All-wool Panama Skirt, made the very latest style. Beautifully trimmed with silk soutache braid and satin covered buttons. Nobby and dressy. Made to sell at $7.50. Your money back if you don't like it. Colors, black or blue. Sizes, 22 to 30 inch waist, 37 to 44 inch front. Lot No. 27-W-110. Price (postage 16 cents) **$2.65**

MODERN HEATING PLANTS

All kinds of heating apparatus. We can furnish you with a modern, up-to-date steam or hot water system cheaper than any other concern. Complete plans and instructions go with every plant. We loan you tools free. Write for Heating Catalog and free estimate. Each plant backed by our Guarantee Bond. We save you 50 per cent.

MEN'S PAT. BLUCHER SHOES

While they last, 5000 pairs of men's Patent Colt Blucher $3.50 Shoes, at a saving to you of $1.55. We took the entire output of the factory. This is a perfect fitting shoe. Sizes 6 to 11. Width C,D,E, and EE. Price per pair **$1.95**

Price per dozen pair $21.00

Write for Catalog today.

MAGNIFICENT SUIT LESS THAN COST $4.95

We secured the entire stock at a ridiculously low price. You get the benefit. Handsome black cheviot suit, newest model, tailored by experts. Coat round sack style; vest popular single breasted. **Notice**—we send with this suit an extra pair of pants. Cut latest mode. Color is gray; guaranteed. Order by Lot No. 25-W-52. Suit with extra trousers **$4.95**

Write for our FREE catalog.

LADIES' PATENT COLT BLUCHERS

This is a rare opportunity to secure high-grade patent leather shoes at a give-away price. They are made the latest city style. Dull mat top, perforated toe caps. Cuban heels and extension sole. Sizes 2½ to 8; Width C,D,E and EE. Price per pair **$1.00**

Per doz $10.80

DURABLE ARMY KHAKI SUIT $1.95

This fabric is very firmly woven narrow Wale diagonal Khaki cloth, the same as used so successfully by the United States Army; plain army tan; recognized everywhere as the most durable shade known. Comfortable, full, roomy. Two outside pockets; semi-peg trousers with adjustable belt; two side and two hip pockets. We save one-half the regular price. A strong, durable, washable, inexpensive suit that will stand extremely hard usage and last almost forever. Sizes 34 to 46 chest; 30 to 42 waist measure; 30 to 36 inseam. Order by Lot No. 25-W-304. Price **$1.95**

PRINT LINOLEUMS

W-59. A splendid grade of Print Linoleum in exact imitation of quarter-sawed oak; 6 feet wide. Per square yard **37c**

W-61. Patterns of extra heavy grade Print Linoleum. All colors, 2 to 2¼ yds. wide. State colors wanted. Price per square yard 42c

FINE TOP BUGGY

This fine leather quarter top Buggy, black, with Brewster green gear, ⅞ tires, narrow or wide track. Price **$34.95**

Send for free booklet.

FINE SINGLE STRAP HARNESS

$10.98 At this low price we will furnish light new harness.

$1.00 LACE CURTAINS AT 63c

3300 pairs as shown. 50 inches wide and 9 feet long. White or Arabian Shade. Beautiful Bonne Femme pattern with ruffled lower edge and a throw at the top. A curtain of rich appearance and long wearing quality. Regular retail price $1.00. Our wrecking price, pair **63c**

Order by Lot No. 20-K-532

HIGH QUALITY SMYRNA RUG $6.95

W-45. A heavy, reversible Smyrna Rug. Handsome Oriental pattern. Red or green ground; border colors tan, blue or red. Can be used either side up. Offered to you at exactly one-half its value. State colors wanted when ordering. Price **$6.95**

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This gun is strong and reliable. Taper choke bored, automatic ejector, 12 or 16 gauge; reinforced breech. case hardened frame; good quality fore end and full pistol grip stock; rubber butt plate. Weight about 6¾ lbs.

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16 gauge single barrel, with ejector, 30-in. barrel **$3.70**

$20 AND WE PAY THE FREIGHT

This high-grade Harris A Sewing Machine, guaranteed for 20 years for only $20 and we pay the freight to all points east of Denver, Col. Besides you are allowed 60 days in which to try it in your own home. Notice the beauty of the design; golden quarter-sawed oak, hand polished ball bearings, drop front, automatic lift. A full set of attachments with each machine. The finest material and the best workmanship represented. The greatest bargain ever offered. Send for our Sewing Machine Catalog. Free for the asking.

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Colonial Pedestal Table. The illustration shows the harmonious lines but the table must be seen to appreciate the rich golden finish. It is excellently made with heavy, solid pedestal and scroll legs. Extra leaves are furnished free. Extension six foot. Has 42 inch top. An actual $12.00 value. Order by Lot No. 1-K-6643. Price only **$6.95**

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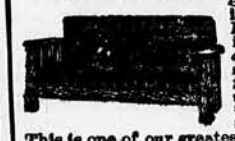

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