

# KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

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NATURE strives for perfection. Man attains it. Nature creates and conserves animals and plants whose chief end is their own propagation. Man selects and improves these, and brings forth animals and plants for his use as well.

Nature never created the Percheron horse, the Shorthorn cow or the Jonathan apple. Man did that, and his own well-being followed.

Good live stock is the vital principal of the farm and the foundation of the nation's prosperity. With it comes good seed and good implements, and these combine to produce good crops, good homes, good citizenship and good families.

Since man came upon the earth his culture, his refinement, his wealth and his comfort have been measured by the quality of his domestic animals. If he be a millionaire he takes pride in the blooded stock with which he surrounds himself. If he be in another sphere in life he thrives as his stock improves; while if he be upon lower levels he depends upon it to pull him up the hill to the summit of prosperity.

I. D. G.



*They Take Him to the Top of the Hill Every Time.*



# FRANK IAMS' SHOWS TOP-NOTCHERS

and mares are "classy peaches and cream" horses—"show yard attractions," "Yankee Doodle boys and girls." Prices reduced on "show horses" \$200.00 to \$500.00 each. Iams' 1910 "special train load" of imported horses were bought in Europe when "crops" were the "poorest in twenty 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." 60 of his 101 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 with a "\$500 bonus" (no others do this). He gives six of the best banks in Nebraska for reference.



## IAMS' 101 Kings and Queens of PERCHERONS and BELGIAN

are all "top-notchers." No International "tailends" no "auction stuff" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality 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." IAMS "leads the procession," "Ikey Boy." Buy an imported stallion and two mares of IAMS, the horseman who "does things." Get into IAMS' Barn don't be "sidetracked" by any "hammer knockers." Ikey Boy, "waltz me around once again" and land me at IAMS' "four importing barns" and 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. 1910 to be the most prosperous year in history. Mr. "Stand Patter," "come on down town." Sing Iams' song.

## BUY PEACHES AND CREAM STALLIONS AND MARES OF IAMS--AS 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 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. 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" 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 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." "town of barns filled to the roof with big 'black boys,' the 'best ever'—'IAMS' kind." His 101 stallions and mares, two to six years old, weigh 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"

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" horses. It shows largest imported stallions and mares in the United States, "true to life," and truths, facts, "business propositions," and 115 illustrations of the "tricks of stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate, and original up-to-date book in the world. Twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on horse 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 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. 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 horse 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," 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 has 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." "Special prices" made at IAMS' barns only. IAMS WILL SAVE YOU \$1,000 in Commissions and middleman's profits. "Papa, dear," buy 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 "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

## 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 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 number of January, 1911, than in any year in 29 years' business. "The proof of the pudding" is that "Iams sells the best horses." Iams has 101 of the all of his 40 show horses on hand. Iams has 50 head of these not before seen by the public.

# ST. PAUL, NEBRASKA





# KANSAS FARMER

## EDITORIAL



### ABOUT PAINT.

Paint on farm buildings is not for ornament alone. Indeed, this is not its first or most important office. Most people are perfectly ready to admit that such buildings appear better when painted but they seem not to remember that looks is only a minor feature. Paint is a preservative and this is its chief use. Color furnishes the ornamental features but the lead and oil of which paint is composed are a necessary part of all wooden structures that are exposed to the weather.

Houses and barns well painted will last indefinitely while those without it lose money for their owner each year. Wooden buildings can be constructed now as cheaply as they ever can in the future and perhaps more so. The cost of such structures is much greater now than a few years ago but yet it is cheaper than it ever will be again. It is simple economy therefore to make them last as long as possible.

It is also simple economy to build structures which are tasteful in design and properly colored. Otherwise they become a blot on the landscape and make enemies instead of friends.

The losses sustained by the farmers of this country by not painting their buildings at the proper time and by not using good materials are said to run into the millions annually. The farmer generally insures his buildings against loss by fire, hail or tornado but he too often fails to take out a paint policy for their preservation from the everyday wear and tear of the weather. The losses from one source are as great as the other though they are slower in being felt.

Some paints are made to sell and have no other value. Others are made to use and, though they cost more in the beginning, are the cheaper of the two.

As a rule the reputable paint manufacturer can make a better paint than the farmer can mix for himself and it is cheaper and more economical to buy from him. There are good, reliable, ready-mixed paints on the market that leave nothing to be desired. They are ground and mixed by machinery and always have the same consistency and color, two things that are almost impossible to secure in hand-mixed paints.

Most people use the boiled oil in mixing paints as it dries quicker though raw oil will penetrate the wood better and last longer as a preservative.

Paint means prosperity. Not that the farmer becomes prosperous and then uses paint to show it, but that he uses paint as an economy and prosperity follows.

### RECORDING RESULTS.

When the price of hogs goes below a certain figure or when this price becomes low as compared with the price of corn how often it becomes true that farmers will go out of the hog business and begin raising corn for market. This is also true of other classes of stock and these facts cause the pendulum of prices to swing to extremes.

When beef or pork becomes high and feed cheap then everybody begins to raise meat. When grain or hay is high and the meat producing animals relatively cheap, then the reverse is true.

These conditions serve to handicap the farmer. When everybody is raising hogs the market price will be forced down and the farmer who has stocked up strongly stands to lose. He is then tempted to abandon hogs and go into grain and hay farming. In doing this he further handicaps himself by removing the only means he has of restoring the fertility of the soil.

His grain crops consume large quantities of soil fertility and it is through live stock that he has his only available means of restoring it. His swinging back and forth with the pendulum is expensive in several ways but in none so much as in loss of fertility.

Now this question resolves itself into a knowledge of facts and this knowledge comes only through a record of these facts as they occur. Keeping books is a kind of bugbear to most farmers. Even when they are

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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.

convinced of its value they dislike it as a sort of drudgery. And yet an accurate record of farm facts would be the means not only of making more money but of saving many losses.

The farmer who keeps live stock on his farm to the capacity of his acres and who keeps a record of what they are doing is the man who makes money in the long run. Moreover he knows where he makes it and where he saves in losses.

Many times supposed losses are actual gains when the facts are accurately known and at all times the keeping of a record will show the farmer "where he is at." It pays to keep books but it does not pay to keep a complicated system which requires extra work.

### DON'T KEEP BOYS ON THE FARM.

In the first place, the idea is wrong. Don't keep the boys on the farm and don't try to do so.

Sounds startling, doesn't it? But remember that there are a lot of the boys who don't belong on the farm. Boys who will make a failure in life if they are kept there and who should be allowed to get away from it as soon as they are able. Don't misunderstand. These boys should first be shown that there are greater possibilities for them on the farm than in any other walk in life. They should be shown that the opportunities for perfect development in physical, mental and moral life are greater on the farm than elsewhere; that the life of the farmer can be made more full, more perfect and more enjoyable than that which falls to the lot of most men. They should learn that a man cannot know too much to be a farmer and that he can generally use all the knowledge he has in his daily work. They should see that with our ever increasing population which must be clothed and fed, the farmer is daily growing in economic importance and his remuneration increasing. They should learn that the farmers are now the largest and wealthiest class of citizens in America and their political and financial importance is increasing. First show the boys all these things and then compare them with the drudgery and brain stunting work which must be done by the average city man and then give them a financial interest in the business and you will not have to "keep" the boys on the farm. They will do their own "keeping" if they are adapted to farm life and, in later years, they will be able to "keep" you on the farm also.

### DAIRY COWS IN THE WEST.

A correspondent who lives near the western line of Kansas states that, in his opinion, the people of his community have not made a living from farming during the last four years except as they "milked a lot of cows." Now, do you know, that might be a mighty good way to make a living? When Kansas was first settled the pioneer farmers found that they were confronted by a lot of new agricultural problems. They had to learn the seasons, the soils, the seeds and the methods. Just such problems had never been presented to mankind before and the present greatness of the state is due to their partial solution.

But they are not all solved yet. In eastern Kansas we are only beginning to approach the possibilities while in the western part of the state these problems are more difficult and the workers are few.

Dry farming methods have done much and will do more. Irrigation has helped and will help more. Single crop farming has made many prosperous but it has cost much in the depletion of the soil and its work will have to be undone.

There is one phase of farm operations which has never been given a fair and thorough trial in western Kansas and which promises better than any other. This is dairy farming.

The buffalo indicated the best use to which western Kansas could be put and that is the growth of cattle. Range and ranch men were quick to catch the idea and fortunes have been made from cattle on our boundless plains. These wild and semi-wild cattle enriched the land from which they fed and thus preserved for the settler a country excelled by few on earth.

Now, the conditions are different. The depleted soil must be restored and the farmer naturally turns to live stock. But his great ranges and ranches are now fenced into smaller fields and the old type of cattle is not available. Intensive methods are forced upon him and an intensive type of live stock is demanded. This is found in the dairy cow.

With an abundance of cheap feed, an unequalled climate, a market at remunerative prices at every depot platform for his product, and with alfalfa to be had on nearly every section what greater field of usefulness could be found for the dairy cow than western Kansas.

I want to compliment you on your front page of KANSAS FARMER issue of March 4 and the beautiful tribute to the cow. This has an important place in my live stock scrap book. It is an historic and literary gem.—R. W. Mitchell, Albany, Mo.

### IN THE KITCHEN.

"The girls are the reason why the boys leave the farm," said an eastern man. "When they realize the daily grind of hard work and the lack of conveniences which their mothers endure they feel sure that the prospects of becoming a farmer's wife is not the most alluring."

This statement may not be wholly true, or even a large part of it and yet the fact remains that the household utensils are the last to receive attention when new tools are being bought.

Labor saving machinery is an essential part of modern farm economy and the operations of the present day could not be carried on without them. Farmers are not so numerous in proportion to total population as they were a half century ago and yet the crop production per acre and as a whole has increased and this has been due entirely to the adoption of better farm methods and machinery.

In the kitchen where the housewife spends most of her time there is no such marked changes. The utensils and methods there used are not widely different from what they were. The drudgery is pretty much the same. And yet upon the good work done in the kitchen depends the efficiency of the work done in the field as well as the health and happiness of the farmer and his family.

Farm conveniences bring pride in the farm and this induces better care and methods. When these are present prosperity follows. The same is true inside the house as well as outside and not until the wife and children are proud of the home, its conveniences, its healthfulness and its attractiveness will permanent prosperity abound.

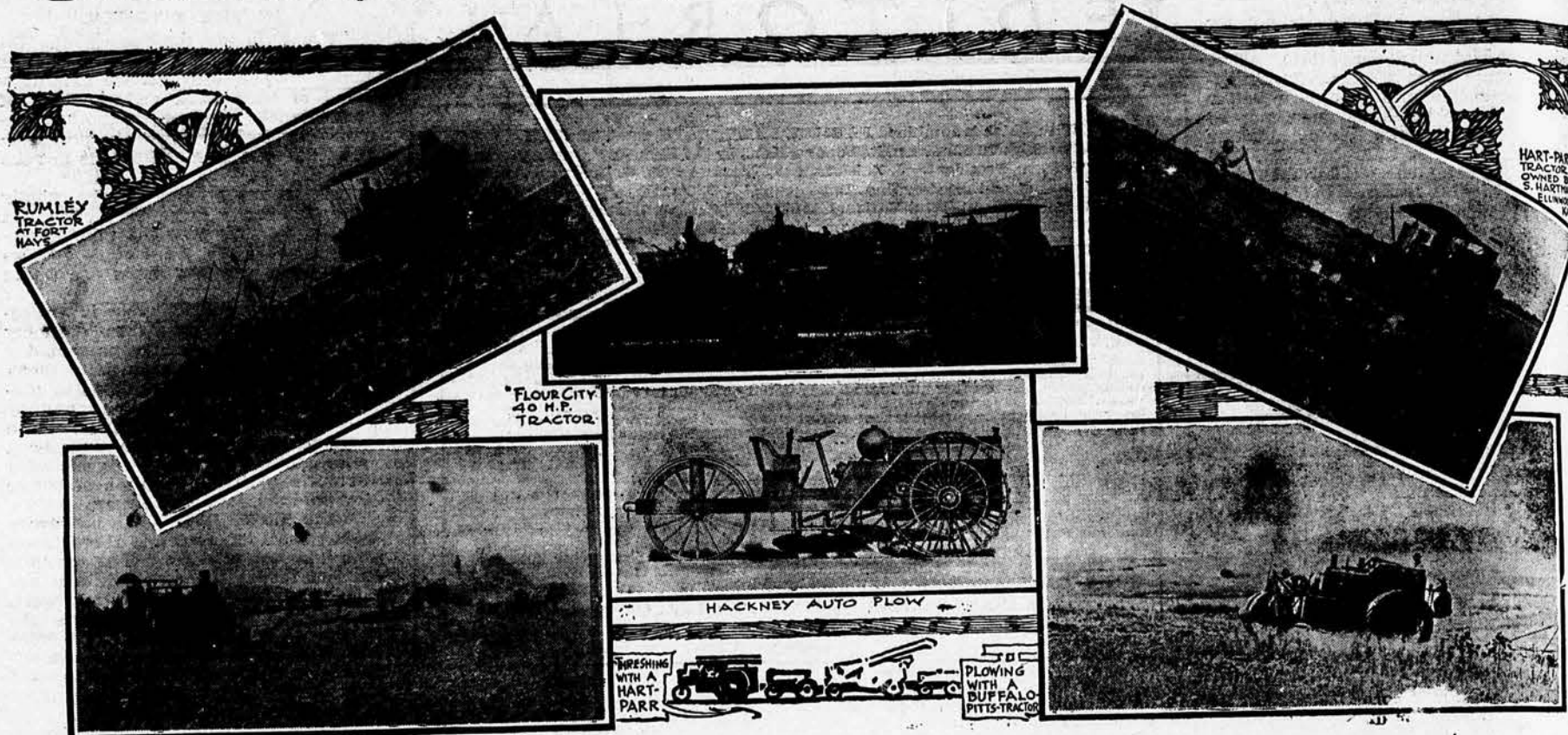
Many people complain of the drudgery of farm life and this complaint is aggravated by a certain class of newspapers. This is wrong. There may be drudgery on the farm as there may be in any other walk in life but it is less necessary and, in our judgment, less frequent. The average city man has a life that is made up of routine and this forces him to seek variety and change, not always of the best sort. The farmer's life is full of variety. No two days are alike. The average farmer works hard, but so does the city man but with much less of compensation. The farmer who reads, thinks and plans; who really takes an interest in and enjoys his work, does not complain of drudgery. He makes as good a living, eats better and fresher food, wears as good clothes and labors no more hours in the year than does the city man and in the end he has his farm which will go on making these good things of life while the city man's business stops when he stops. Almost anybody can be a doctor, as he only interprets the laws of health. Almost any man may be a banker, as he only deals with the laws of finance. Almost any man may be a lawyer as he has to do with the laws of man, but it takes a mighty big man to be a farmer as he interprets all these and the laws of God besides.

This is the day of cooperation. The larger industrial results of the world are obtained through it. Men in nearly all lines of effort come together at more or less regular intervals to talk over their work and give each other the benefit of their experiences. In this each is a gainer and none a loser. Each gives of his store of knowledge and yet loses nothing. It profits these men to do this. Why should it not profit the farmer? Certainly no class of men needs cooperation more or would derive a greater benefit from it. Granges are social centers and wherever they exist the plane of living is higher and the degree of prosperity higher than elsewhere. They go a long way towards the solution of the problems of "why the boy leaves the farm" and "why the farmer moves to town."

Corn for seed is best when grown at home but with some other things imported seed is better. Texas oats are the best because the earliest and, other things being right, the early maturing crop is the best.



# Gasoline And The Help Problem



At this season of the year, the annual argument begins as to the merits of engine power and animal power. Each year the man who argues for mechanical power gets more and more advantage in the argument. Not over three or four years ago, it was possible for the horse enthusiast to dispose of the case by saying, "Oh well, engines will plow cheaper than horses on large farms, but there are a lot of kinds of work where the engine won't even begin to be as economical as horses." Now, however, this argument has lost its force in the great majority of cases in the west, and it is only the small farm where it has much weight.

It was formerly supposed that plowing was the only thing that engines were good for, outside of thrashing, but now men have learned that they can not only plow and thrash, but disk, harrow, seed roll the ground, cut the grain, haul it to market, grade roads, saw wood, and do many other things. Keeping the engine busy, the way it is done now, cuts down the interest and depreciation on each day's work, and makes its cost of operating low enough to compete with horses on the small farm. Even if the engine would do nothing but plow, it would be economical on many a small farm, because of the net profits at the end of the year. But each year it is coming closer to being an all around farm power, and constantly cutting down the cost of operation.

It takes just as much power to move the engine itself or a horse, across a field ahead of a light implement as in front of a heavy one. In fact, it costs more for the light implements. They are not used until the ground is worked up fine and soft and the engine wheel or horse's hoof will sink to a greater depth. This creates a constant grade that must be climbed at the expense of power. With horses one cannot combine plowing, disking and harrowing, on account of the power required, hence three or four trips are necessary to pulverize the ground. The engine moves itself over the ground with as little proportionate effort as the horse, and has power enough for all the implements that can be attached behind. As a result it makes one trip where the horse makes several. In this way the engine always travels on firm footing, hence wastes less power in moving itself. In this way it cuts the cost far below what would be dreamed of with horses.

The gas tractor is solving the small farmer's problem. Compared with the steam engine it has both advantages and disadvantages. Its principal advantages over the steam tractor are that it requires less labor and practically no water, is safer and more convenient, and is more economical

of fuel in the sizes needed for general purpose work. The evaporation of water, especially in an alkali district, is extremely hard on either the boiler tubes on the steam engine or the evaporating cooler on a gas tractor. The use of oil for cooling in some of the later tractors removes this difficulty. Where water is scarce the labor of getting it is the most expensive item in steam plowing.

Two men and the gas tractor do what 3 to 5 men and a team or two of horses do with the steam tractor. If abused, the steam tractor may cause trouble, but it will keep on running until then. The gas tractor, in a similar case, merely stops. It is sometimes annoying, but not dangerous. When properly cared for it is ready to run at a moment's notice, and when it stops running it stops consuming fuel at once, not a half hour or so later. The waste of coal at the beginning and end of each job, and whenever the engine is idle during the meantime makes the steam engine economical only in the larger sizes. There, at least, they are supreme.

The gasoline tractor, or, better yet, the kerosene tractor, combines convenience and safety with great economy in small and medium sizes units, that is, up to 60 brake horse power. Kerosene is at one-fourth its former price and steadily growing cheaper. As fuel it is cheaper than oats, even while the outfit is running. The engine consumes nothing during the six months of practical idleness each year, while teams must be maintained for twelve months to be ready for the heavy work of four. The horse on the grain farm works only one hour in nine, during the year, yet he must be kept warm and sheltered, and must be fed and watered three times a day whether used or not. He must be exercised in the winter to keep him in condition, whether there is necessary work or not. A horse deteriorates during idleness, and is subject to disease and premature death. All these things must be considered in figuring cost of operation.

It takes at least 10 hours of the work of one horse to plow an acre. For each hour the average farm horse receives  $3\frac{1}{2}$  pounds of grain, and  $6\frac{1}{2}$  pounds of hay. At reasonable rates this feed will cost about  $6\frac{1}{2}$  cents and the feed for one acre will cost 65 cents. Engine kerosene can be bought at the Missouri river for 3 cents and distillate at  $2\frac{1}{2}$  cents per gallon. At this rate one might burn 20 gallons to the acre and still

be inside of the cost of oats and hay.

The question of cost of doing a thing is not the only thing to consider. Net profits are the true guide to success. It sometimes is necessary to spend money to make it. It costs less to sit up all night than to sleep in a Pullman, but if the passenger has to take a nap in the middle of the next day, when important business is demanding attention, his two dollars is saved at a fearful cost. Many a business man has failed because he was afraid to go into debt for needed improvements. Many a farmer fails because he will not invest enough money in preparation of his ground to insure certain results at harvest time. Professor Thomas Shaw, of Minnesota, who is one of the leading agricultural experts and writers, says that with proper care North Dakota, for instance, should never have a crop failure, even in the driest season. Proper care, according to his ideas, means deep plowing and good preparation of the land. If this is true then an investment in a machine, which alone can be depended upon to do deep plowing in season, is surely worth while.

Will the tractor insure a crop and greater net crop returns? Yes, for these reasons:

1. You can plow deeper in the same length of time and thus provide abundant space for storing up moisture.
2. You can wait until the ground is in fit shape to work, then rush the work when conditions are right. Every farmer knows that the work he does one day is more effective than the work he does on another when the soil is either too wet or too dry.
3. You can do all the cultivating or plowing that may be necessary in the very hottest weather, when the soil needs cultivating most and horses can not stand the strain.
4. You can go over the land even after a crop is up, and stir the soil after rain has washed it together and established capillary channels in the soil. Moisture will be drawn from below and lost unless the dust mulch is restored immediately. Grain fields which have been harrowed, even after wheat was several inches high, have shown better results than where left alone.
5. You can harvest the grain at the proper time without loss by shelling, or by losing any of its milling qualities through cutting too early or too late.
6. You can haul two car loads to the market at one trip and be the early bird that catches the cars before the annual shortage.

7. It will do all these operations at less cost than horses will, and in addition be Old-Reliable-on-the-job for thrashing.—L. F. Ellis, La Porte Ind.

## Work Done on Time.

I could not get along without my gasoline tractor engine. I suppose there are other engines as good as the one I am using, but I have been so successful with it that I have never tried any other. I would advise all farmers who contemplate buying a tractor engine to purchase one which will use cheap fuel. An engine which will use nothing but gasoline will cost more per acre than if kerosene or fuel oil is used. We use fuel oil which costs us four cents per gallon delivered, and in plowing old ground it takes about  $2\frac{1}{2}$  gallons per acre, and about 4 gallons for breaking sod in the kind of soil we have here. Ten cents per acre year after year will keep it repaired, providing the operator takes good care of his engine. Nearly every farmer knows how to handle machinery and knows that a machine kept in first class condition will do more and better work than one not so cared for.

We have used our engine three seasons and have kept it busy a great deal of the time. There is no limit to what can be done with it. We plow  $2\frac{1}{2}$  acres per hour on old ground, and in the summer, when the days are long, we have plowed forty acres per day of sixteen hours and used 100 gallons of fuel oil, which cost \$4, with two men to do the work. We used our engine to plow all sizes of fields from five acres up. There is more turning where a small lot is plowed, but it does not take long to do this and that is quite an item. The plow cuts a strip ten feet wide, and we usually drag a harrow behind the plow. The gasoline tractor can be used for plowing, harrowing, thrashing, seeding, double disking, pulling binders, grinding feed, working the roads, sawing wood, and in fact anything that tractor or belt power is needed for.

I am sure that a man farming a half section of land could use an engine to good advantage. The sooner ground is in a state of cultivation the more it will produce the following season. If the ground is double disked right behind the binder and later plowed, it will put the ground into cultivation earlier and produce more than twice as much as the ground handled in the ordinary way. Two men and a gasoline tractor will do as much work as five or six men, and twenty-four horses. So the man farming a half section would save time to attend the county and state fairs, and have plenty of time for other amusements as well. His work would all be done and the increase in his crop yield would soon



# Gasoline and the Help Problem

# Irrigation By Pumping

Continued From Page Four

pay for his engine. There is a great deal of satisfaction in knowing that the work is all done on time. A man with nothing to worry him should live at least fifteen years longer. I know a steam outfit will do all this work, but there is so much difference in the cost of operation that it is not to be considered in the same class with the gasoline tractor.—A. H. Johnson, Norwich, Kan.

## The Tractor Pays.

We have been operating a gasoline tractor engine during the past four seasons, and consider it highly profitable where a large acreage is handled. Of course, the acreage necessary to prove profitable will vary according to locality and conditions. Out here where one is handling 400 acres or more it pays to have a tractor. Of course, a farmer must have a certain number of horses on the farm, but when he tries to farm more than these few animals can do he had better own an engine. In this part of the state the best results are obtained when one is able to plow the land and subsurface or pack when the ground is in just the proper condition, with a view to conserving all the moisture possible. Needless to say this can be accomplished more quickly and more economically with a tractor than with horses.

We have plowed or disked upwards of 5,000 acres with our machine. If we had been using horses to do this work, considering the short crops in this part of the state the past few seasons, this work would not much more than have paid expenses. As it was it showed a nice profit. We have used our engine almost exclusively for our own use, and are well satisfied with it. We drew 12 disk plows and a 16 foot steel harrow in stubble, cutting a strip 11 feet wide and from 6 to 8 inches deep, and plowed from 22 to 30 acres a day. In sod plowing we used six 14-inch brakes, and a common wheat drill with every other shoe removed, but which weighed heavy enough to cut through sod. The engine handled these with ease, and could have drawn two more plows without overloading if the plow frame had been large enough to attach them.

This fall we had the heaviest load on our engine that we have ever drawn. We used our 12 disk plows, a large packer with about 600 pounds of dirt on it, and a 16 hoe drill behind that. The engine handled this load with little more effort than the load it ordinarily carries. That is to say, we could see but little difference in fuel consumption and the engine would "hook up" on 5, 6 and 7. Those familiar with gas engines will understand the above term. The estimated number of horses to do this work would be 36 with eight men to handle them.

In operating the engine my brother and I handle the entire outfit and figure that we use about 3 1/2 gallons of gasoline per acre at 7 cents per gallon, and that our cash outlay is less than 30 cents per acre including board, and less than 17 cents per acre for disk. The gasoline tractor engine is easy to handle, the operator has absolute and perfect control of the engine at all times, and they are easy to adjust and repair. At the end of our fourth year the master gear and the intermediate gear were in good condition and looked good for four more seasons. We ran on kerosene exclusively with the exception of a small quantity of gasoline used in starting engine, which effected a saving of from 40 to 60 per cent on gasoline.—W. M. Prather, Campus, Kan.

## Fuel Less Than Coal.

I have not had my tractor engine long enough to find out all it will do, but I used it sixty days on the clover huller, thirty days by myself. Machine men are pretty hard to find nowadays so I have quite an advantage in being able to operate the whole thing myself. I have pulled a road grader over all kinds of hills and would say it is a perfect success, both as to the amount of work it will do and as to economy. I am pulling hedge fence now, and have not hooked onto anything that did not come up. I had a little trouble at first in starting the engine, but have

mastered the art and can start in a few minutes, no matter what the weather is. The fuel bill is a good deal less than burning coal.—J. A. Doan, R. 5, Paola, Kan.

## Does Big Work.

I have a 22-45 horse power gasoline tractor, and for general farm work find it much handier and cheaper than steam. For a farm where 300 acres or more is farmed in small grain I find it cheaper and handier than horses. I have had this tractor a little over a year and a half and in that time have plowed 600 acres of stubble ground, 500 acres of buffalo grass sod, thrashed 110,000 bushels of grain and done several small jobs, such as house moving and pulling a binder. The engine pulls its load as easily today as the day I bought it. I always use eight 14 inch plows, both in stubble and breaking bottoms, and a 36 by 60 thrasher with all attachments, and have always had plenty of power.—F. B. Eaton, Wilson, Kan.

## TEN WEEKS FOR TEN CENTS.

KANSAS FARMER will be mailed to any address on trial ten weeks for ten cents. We must depend upon our subscribers to make this known to their friends. To any lady reader who will send for five trial subscriptions at this price we will send free one of our premium cook books. This cook book contains 320 pages, every other page being left blank for the housewife to fill in with choice recipes of her own. You will appreciate this book more than any cook book you have ever had. Address Subscription Dept. Kansas Farmer, Topeka, Kan.

I am sorry to say that I live in a country where, when it sprinkles a little rain, about enough to lay the dust, wheat is pressed down from 3 to 5 cents a bushel. I just read in a Kansas City daily what a lot of moisture the country did get. The fact is we got a little sprinkle of rain that froze down and we did not get an inch of snow over all. I am sure we have not moisture enough for our wheat to come up. Most people in this part of the country did not make their living at farming in the last four years unless they milked a lot of cows. It seems we are here for paying taxes only.

Now I would like to learn through KANSAS FARMER a little about irrigation. Will it pay to pump water 66 feet? What size of pipe is necessary and what size of engine to raise water 66 feet and irrigate 40 acres? What fuel is cheapest to use for irrigation pumping?—Philip Heinschel, Gem, Kan.

These questions all have to do with western Kansas conditions and the letter was referred to Mr. Geo. K. Helder, Assistant Superintendent of the Hays Experiment Station for reply. Mr. Helder has spent years in investigating these conditions and he replies as follows:

Answering inquiry of your correspondent, Mr. Hinschel, permit me to approve his argument that newspapers are oftentimes misleading in their reports of precipitation over Kansas. The majority of the "dailies" being published inside the rain belt, perhaps explains why rainfall reports are printed, largely exaggerations of exact facts observed in the western third of Kansas. This region is not sufficiently equipped with weather observation stations, nor has it a thorough telegraphic newspaper reporting

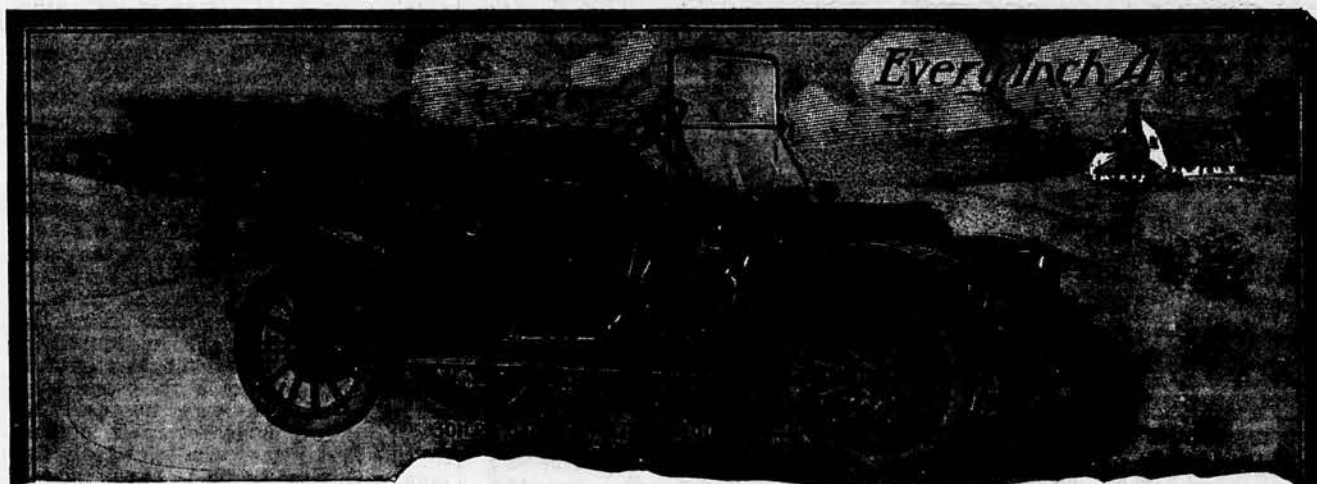
system to supply accurate data. I think his criticism is prompted by the misuse made of newspaper space by agencies desirous of influencing market conditions; which pay little heed to exact conditions. They seldom know them correctly.

Very little valuable information can now be given as to what system of irrigating would prove most economical for your correspondent's farm. The type of equipment must be governed mostly by the amount of water available; and the topography of the adjacent land, or land to be watered.

In tests at the Hays Experiment Station, a four inch centrifugal pump has been used to lift water from a creek to a height of 45 feet; it being found that an eight h. p. gasoline engine furnished sufficient power for this work. For a well pumping plant, required to lift water 66 feet, the size of cylinder can be limited by the amount of flow (or supply) of water available. This point should be determined before a pumping apparatus is secured. Any reliable supply house can furnish irrigation cylinder, in sizes from two to ten inches; used in connection with well casing, of single or double valve construction. A gasoline engine, perhaps ten to twelve h. p., would prove the most economical power for operating a large pump, unless the party already has a traction engine for use at the irrigating periods.

To irrigate a forty acre tract, the water supply should not be less than an amount equal to flow of one cubic foot per second.

The regular installment of "The Empire Builders" was crowded out this week. It will appear regularly hereafter.



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Five Passengers**

This model is a roomy car that will give long, low-cost service on the worst of country roads.

When the occasion comes for extreme speed, the car will not be found wanting, and hills, muddy, sandy or rutty roads will never give it difficulty. The ease of control makes it an exceptional family car, because any member can drive it. The running cost is remarkably low.

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WILL PRODUCE MORE CORN

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WATER SYSTEMS

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WATER SYSTEMS

I have a bearing orchard of 120 acres in one place. Part of this orchard is in a rather wide draw. I found there was considerable difference in temperature between the low and high ground. I found the temperature 5½ degrees lower on the low than on the high ground eighty rods away. I have raised as high as 3,500 bushels of apples on ten acres of this low lying land, but the crop was destroyed by late spring frosts a year after year while on the higher land I raised full crops.

I decided I would go to Grand Junction, Colo., and investigate the methods of orchard heating practiced there. I did so two or three times, then decided I would try orchard heating on this particular block of low lying trees that had been so badly affected by late spring frosts. It was worth almost as much as the balance of the orchard, if I could save the fruit on those particular trees, so I decided to buy 450 orchard heaters. I came to the conclusion that the coal heater would be a failure so far as I was concerned. It is a great deal more difficult to handle a coal heater than an oil heater, so I bought 400 oil heaters. I put them out in the orchard about the 31st of March, when the trees were in bloom. My son and I then filled them with oil. I had my thermometers tested by the Weather Bureau so that their accuracy could be depended upon.

I placed these thermometers in what I thought would be the coldest part of the orchard. At 9 o'clock on the evening of March 31 the thermometer on the lowest ground registered 33 degrees. Our heaters have five half-inch holes on each side for ventilation. The size of flame is regulated by drawing the cover back, thus increasing the surface of burning oil. I instructed my son to direct our men to open the heaters to the second ventilating hole. In the meantime I was fixing torches of cotton waste saturated with kerosene. After these were completed I looked at the thermometer, and found it registered 31 degrees. I also found thin ice on some water in the lowest place. I then ordered the oil pots lighted. This was done by pouring a small quantity of gasoline upon the oil and then lighting with the burning torch. It took 37 minutes to light the 450 pots. After the pots were all lighted I looked at the thermometer and was very much surprised to see the temperature had risen to 37 degrees. I thought some of the blossoms might have been injured by the frost, but I had demonstrated that the burning oil would raise the temperature. There was no question about that. I made several mistakes. In the first place, we lighted all the pots when we should have lighted only half. I burned 2,500 gallons of oil that first night.

The second night came and the temperature began to fall rapidly which was discouraging. We lighted every other row of pots and placed thermometers at an equal distance between the lighted rows. These thermometers soon indicated a rise of three degrees, at which point they stood for five hours. We were compelled to light the pots held in reserve at 5 o'clock in the morning.

I do not wish to make this story too long, but there are one or two things of which I wish to speak. The oil question is an important one. It seems difficult to get the right kind of oil. I wrote to the Standard Oil Company in regard to oil and they sent an agent to see me. This agent sent samples of two different oils, one the light and the other dark—a smudge oil. I liked the smudge oil and they sent me a car of it. I ordered the car from Kansas City; it was shipped from Neodesha and I received the bill from Chicago. When the car arrived

I found the oil very difficult to get out of the steel tank car during cold weather, and could not do so until it was heated by steam. Upon trial we found this oil would not burn. This the oil company would not believe until their agent examined it. This agent could not make it burn. We put some of it in a boiler and it put the fire out. It seemed to be the tar residuum used for roofing. They finally sent me a barrel of oil that was all right and from this sample I ordered a car of oil. The oil in this car was not quite so good as the sample. It left a large quantity of residuum in the oil pots after the season's burning. The light fuel oil would burn up clean but was much more expensive.

I fired the pots nine different nights and burned 9,000 gallons of oil. One must look closely after the heating himself. One can not trust it to any one else. You might lose the entire crop in a few minutes. Once we did not light up until fifteen minutes before sun up. It had begun to freeze all at once.

I believe fruit will stand a temperature several degrees colder if the wind is blowing. Along toward the last I was about to order the fourth car of oil, but by waiting another day I found I would not need it. At night I determined that I would not fire until the thermometer dropped to 31 degrees, and instructed my man on guard to call me when it reached 33 degrees, which he did. It soon dropped to 32, then to 31 degrees. I determined to wait ten minutes more before lighting when I found the temperature had risen ½ degree and it continued to rise and in half an hour the mercury



stood at 35 degrees. We did not light the pots at all that night.

I lighted the pots on the lowest ground first and the trees were loaded to breaking down at picking time. Outside the heated area the temperature went down to about 25 degrees on two nights. Oil pots should be placed thicker around the outside of the orchard than through the inside. When picking we found the apples scattering on one side of the trees at the north side of the orchard. Some trees would be full of apples on the side receiving the warmth from the burning pots while the other side would not have an apple, all killed in the blossom by the frost.

I used 60 pots to the acre on the low and 55 on the high ground. I never opened the burners more than to the second hole; they never failed to burn all night. They hold about three gallons of oil. I did not keep an account of all the expenses, but am satisfied that I saved more than enough fruit to pay for all oil and labor. What I object to is staying up all night to fire the pots, and then working all next day to fill them. To keep that up for thirty days becomes monotonous. The oil costs us three cents per gallon. It is difficult to get good thermometers; the ordinary ones are not correct. James Sharpe, Council Grove, Kan.

## A Rule For Feeding Cows

"The station method is to feed as many pounds of grain per day to each cow as she produces pounds of butterfat per week, or one-fourth to one-third as much grain as she gives pounds of milk daily. No two cows can be fed exactly alike; each must receive individual attention according to her requirements.

"A general grain mixture may be used, however, which will meet the

needs of most of the cows in the herd. The amount of this mixture to be given may then be varied according to the production of the cow.

"High producers need more protein than cows producing only small amounts of milk and butterfat. The amount of feed used by cows depends also upon their body weight, larger cows requiring more feed for maintenance."



## Disking Alfalfa

Does it pay to disc alfalfa land where there is a poor stand? I disked a piece of alfalfa one spring and disked it thoroughly, and the crabgrass grew so thickly that season on this field that the next season I had less alfalfa than ever. I never tried disking before, nor had I ever had any trouble with crabgrass on that particular field. I have seen some alfalfa that died out in the summer that was disked in the spring, the crabgrass apparently taking it. Now is it not possible that the disking or pulverizing of the surface soil is conducive to the growth of crabgrass, where there is not a good stand of alfalfa? Please tell us through KANSAS FARMER where there is any benefit in spring cultivation of alfalfa.—H. B. Malone, Wichita, Kan.

Crabgrass will not be destroyed by spring disking. In fact, the conditions may be made more favorable for the growth of crabgrass by spring disking, as you have stated in your letter. If the purpose is to destroy the crabgrass, disking should be done later in the season, about the third cutting, when by thorough disking and harrowing a great deal of the crabgrass may be cut up and dragged out. In order to do a thorough job it is usually advisable to double disc and cross harrow with a straight-tooth harrow, riding the harrow in order to make it tear out the weeds. While some benefit may be secured by such treatment on an old alfalfa field which has become thin in stand and weedy, yet in my judgment the preferable plan is to seed another field to alfalfa, break up the old field and plant with corn and other grain for a few years until the weeds are subdued, when the field may again be seeded to alfalfa. The plan should be to use alfalfa as a crop in rotation with corn and other grain crops. And in this manner secure larger yields of grain and perhaps also secure larger yields of alfalfa. At least the newer fields will not be troubled so badly with weeds and other pests.

The experiments in disking alfalfa in the spring at this station have not given very beneficial results. In fact, the increase in yield has not paid for the work. Under certain conditions where the alfalfa is pastured with hogs or becomes compact and hard at the surface, it may often be advisable to cultivate the alfalfa in the spring with a disk harrow or alfalfa cultivator. But it is doubtful whether spring cultivation of alfalfa always pays.—A. M. TenEyck.

## Grass For Weedy Land

We have at our ranch about 100 acres which is badly cut up in fairly wide ravines, which has always been covered with a frightfully bad stand of sunflowers. We wish to ask you if a variety of one-third white clover, one-third blue grass and one-third timothy would tend to destroy these weeds. There are some places on this land which are quite stony and would be glad to know if some kind of tame grass seed could be put in with fair success. We use these fields extensively for pasture and would of course like to have grass seed from which there is no danger of bloating.—M. F. Knudsen, Concordia, Kan.

The combination of white clover, Kentucky blue grass and timothy, about 10 or 15 pounds of the Kentucky blue grass with 5 pounds each of the white clover and timothy seed per acre, would be a good combination to seed in the ravines which you describe, provided you can put the soil in good seed bed condition. Perhaps this can best be done after clearing off the sunflowers, by disking and harrowing. Perhaps you had best use Bromus inermis instead of timothy, since the Bromus inermis is a better soil binder and a more permanent grass and better adapted for pasture than timothy. Also you may use part Alsike clover instead of all white clover. If the sunflowers make a thick, rank growth as they are likely to do, clip them several times during the season, taking care not to clip them so low as to cut off the young grasses and clover. These should be allowed to get their full growth before being mowed close to the ground. The young grass should not be pastured close, but light pasturing may not injure or destroy it.—A. M. TenEyck.

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Timely Talk on a  
Vital Subject

(SCENE: Front gate of the Ransom farm. TIME: Early morning. Ransom is about to get into his buggy when R. F. D. mail-carrier Ben Boland drives up briskly.)

BOLAND: Glad I caught you, Mr. Ransom; I've got a pretty healthy looking registered package here and you're to sign for it.

RANSOM: (Taking the package) That's from the Postal Life; it must be my Policy.

BOLAND: (Laughing) They've landed you, have they?

RANSOM: Landed nothing; I went after them; answered their advertisement in the paper; they sent me full particulars by mail.

BOLAND: Yes; I delivered the letters and you're not the only one that's doing business with the Postal Life; I know, for I'm their only agent around here—me and Uncle Sam.

RANSOM: That's one thing I like about it; you and Uncle Sam are the Company's only agents: I'm not bothered by some fellow chasing me up and I don't have any commissions to pay except a glass of buttermilk or something to you now and then, and that you'd get anyway.

BOLAND: Glad you spoke; it's a little early, but—if the Company's as good as that buttermilk of yours, it's all right for a fact.

RANSOM: Well, I made sure of the Company, too; I wrote to Jack Ransom—he's my nephew back East—and Jack said the Postal was sound as a dollar and had grown to be pretty big, too, and that I couldn't do better.

BOLAND: I see; but what do you want of life-insurance, with this big farm, and you buying everything in sight?

RANSOM: That's just it; every piece I've ever bought has had a mortgage with it; I've taken care of 'em of course—all except the one on that last quarter-section, and if anything should happen to me this \$5,000 Policy would clean the mortgage up on that and leave a good bit besides.

BOLAND: That seems all right.

RANSOM: It is all right; a lot of farmers are short on cash and long on land, and if anything happens they get pinched. I believe the best thing for any farmer is to take out some life-insurance; it not only wipes out the mortgage on the farm, but protects the family, educates the young folks; if there should come a bad year and I should happen to be pressed for money I could borrow on my Postal Policy at lower interest than the banks charge.

BOLAND: I wonder why a small policy wouldn't be a good thing for me?

RANSOM: Nothing better; write and find out just what the Company will do for you: when the letter comes you can deliver it to yourself and save time: time is important in life-insurance; you never know what will happen.

BOLAND: What's their address—but I've got it on this receipt for your package and I'll write 'em when I get back to town.

RANSOM: How about the buttermilk?

BOLAND: Thanks; I'm late; let it go till next trip.

What Farmer Ransom says is about what other farmers are saying about life-insurance in general and the Postal Life in particular. It is the Company for the farmer because it supplies sound legal-reserve protection at lower net cost than any other. The Postal has policyholders in every State and in about every profession, occupation, and employment.

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Costs 50c to Cut 25 Acres Per Day

been using your 3-horse, all-purpose engine on my binder the last two seasons. It works excellent. The net per day is about 50c, and I have been cutting 25 acres per day. I would certainly recommend this engine to any farmer who wants to save money. It is the best engine for any farmer to have.

—S. O. Gregg, Havelock, Neb.

has all the power for operating—runs elevators, binds, mows the horses—all is draw the machine. The original engine. Light—weighs only 25 lbs. very strong and powerful, and fits any Complete attachments furnished.

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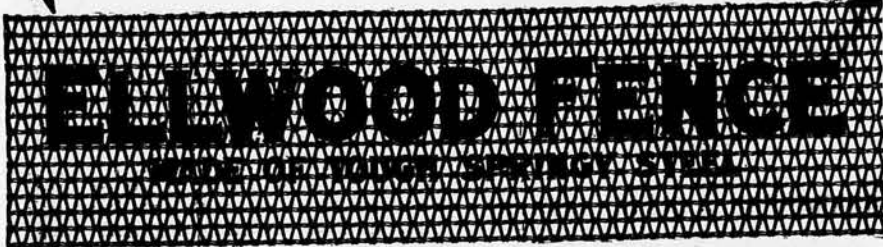
The steel in Ellwood fence is specially made for the purpose from carefully selected stock. It is hard, elastic, tough and springy. The line wires, composed of two or more wires twisted into cables, give each individual wire the shape of an elongated coiled spring. The fence is therefore sufficiently 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 hardest usage and still retain its shape.

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# THE FARM



A weed is simply a plant out of place. The weeds of today may be the crops of tomorrow as science determines their value to man.

Grass seed promises to bring a pretty good price this spring. Whatever the price remember that only the best is worth buying.

A South Carolina boy was credited with having raised 228 1/4 bushels of corn on an acre of ground last year. Maybe the corn belt is moving eastward.

Wonder why our country roads are so wide? In addition to plenty of room for the passage of vehicles there are usually two wide strips of land that is grown up to sunflowers or other weeds and that serve as a nursery from which the adjacent farms are stocked with weeds each year. When a roadway is wide enough for all kinds of public traffic why have it any wider? Enough is a plenty.

A number of experiments have been carried on with clover—one in testing out methods of fertilization. Under field conditions 54 per cent of the flowers produced seed. When the plants were under control with bumble bees in the cage 45 per cent of the blossoms were fertile. Where there were butterflies and moths in the cage of the plants 2 1/2 per cent produced seed and where all insects were kept away 9 per cent of the blossoms were fertile.

Puddling the soil is extremely beneficial in some places but equally harmful in others. When building a stock or a fish pond the bottom and sides must be puddled to prevent leakage. This is usually done by reversing a slip or scraper and smoothing the wet clay. Puddling in the plow furrow is very harmful. This is done by using a dull plow. Subsoil puddling in this way will dry out sooner and prevent the crop roots from penetrating deep enough. A sharp plow is also easier on the team.

## Boys' Acre Contest.

To the Kansas boy under 18 years of age, growing the largest yield of corn from one acre of Kansas land, in the year 1911, \$30; second, \$20; third, \$15; fourth, \$12; fifth, \$10; sixth, seventh, eighth, ninth and tenth, \$5 each.

The entire labor of preparing the ground, planting, cultivating and harvesting of this acre of corn to be performed by the contestants who enter contest by sending their name and address to the office of H. L. Cook, secretary of the Kansas State Fair, at Topeka, not later than May 20, 1911.

Said acre to be measured, husked and weighed in the presence of two disinterested freeholders, residents of said county in which the acre of corn is located. Said committee to forward affidavit as to weight and requirement of specifications in this contest to the secretary of the Kansas State Fair, Topeka, not later than December 1, 1911.

The contestant shall file with the secretary a full and detailed account of his method of performing the work, fertilizers used, if any; whether bottom, hill or table land, and the character or kind of soil on which the corn was grown; with an accurate account of the cost of production, rent of ground, cost of plowing, harrowing, disking, planting, cultivating, husking, and every feature of expense in labor, seed, fertilizer, etc., based on the actual time that entered into the production of this acre of corn.

On request contestants must forward ten stalks of corn from their respective acre to H. L. Cook, secretary Kansas State Fair, Topeka Kansas to be exhibited at Kansas State Fair, September 11 to 15, 1911.

**Corn as a Dry Farm Crop.**  
In all the dry farm areas the conservation of the rainfall in the area where it becomes available to growing crops is the keystone of successful agricultural operations.

This is generally done by the cultivation of the soil during the growing season. If no crop is produced on the land this operation called summer fallow or summer ture. Over most of the dry farm area nearly if not as good grain can be grown following a cultural crop as on summer fallowed land.

When the bare fallow system used a whole year elapses without any returns either on the investment or for the labor performed. If a cultivated crop can be grown with good crops following it should more than pay its expense which will consist of the cost of seed, planting, harvesting; the cultivation will have to be done anyway so it should not be counted against the cost of production of a crop of corn. Corn is preeminently this crop—because it produces an abundance of cheap feed; second—it shades the soil during the excessively hot days of July and August, thereby preventing loss of soil fertility; and third—corn field has a cooling rather than heating influence on the winds that blow across it. This may have a beneficial effect on surrounding area when the temperature is near the degree mark.

On most farms in the dry farm area enough live stock should be kept to pay most of the running expenses of the farm. Hay and pasturage very short in such areas and consequently too dear for cheap live stock production. Enough corn should be grown to supply, first, the horses with roughage during the winter, if not the working season; second, to supplement the pastures the summer and fall as a soiling crop or in the form of ensilage and to be the bulk of their winter ration fourth, to supply the sheep and a cheap fattening food for finishing them off in the fall.

The first essential to corn culture on the dry farms is live stock, without such there is no way of utilizing the corn crop, but if live stock are kept, feed must be had; the crop can be converted into beef, mutton, wool, butter and eggs; commodities that can always be converted into cash or its equivalent. By-products of live stock (manure) should go back onto the land to replenish the diminishing supply of manure and fertilizing elements essential to large yields.

The second essential to corn culture is a conviction that it will to grow live stock on the corn produced and a determination to grow corn as the chief feed in the of adverse circumstances. In order to be successful in growing corn a dry farm the selection of the variety is essential. Good seed is very important. It should germinate strong and 95 per cent better.

The time to seed is from the 15th of May in a well prepared seed bed which has been manured and plowed the fall before and has been harrowed at intervals during the time the soil had thawed out the spring until the time of seed. Thorough cultivation is very important as it warms the soil, decreases evaporation of soil water, and the corn ahead very rapidly. On dry farms the corn should be planted after every rain as soon as possible in order to bottle all water possible in the soil. As soon as the is cut the land should be plowed lightly but it should not be plowed. Should any heavy soaking rain after this in the fall the land should again be harrowed. In the wheat should be sown as early as possible but very rarely should corn land be plowed before wheat.—W. R. Porter, North Dakota.



### Sweet Clover.

Sweet clover has been growing on the roadsides in the eastern part of Kansas for years, fighting to its hold, but farmers of the west are just beginning to find out this "weed" has a great value as a green fertilizer and even as a

It grows by the roadsides it may reach a height of five feet. The plant grows widely, bearing either yellow or white flowers on the tips of branches. The stem of the plant is woody where it grows sparsely and fleshy where it is allowed to mature. The roots penetrate deeply in average soil.

Deep rooting qualities make the sweet clover well adapted to dry land. It is not difficult to get a good crop when cultivated, although there has yet been little breeding done for selection. The plants bear a resemblance to alfalfa; so in fact, that it is often mistaken for alfalfa in regions where alfalfa is not common. The seed usually costs about \$6 a bushel, half the price of alfalfa.

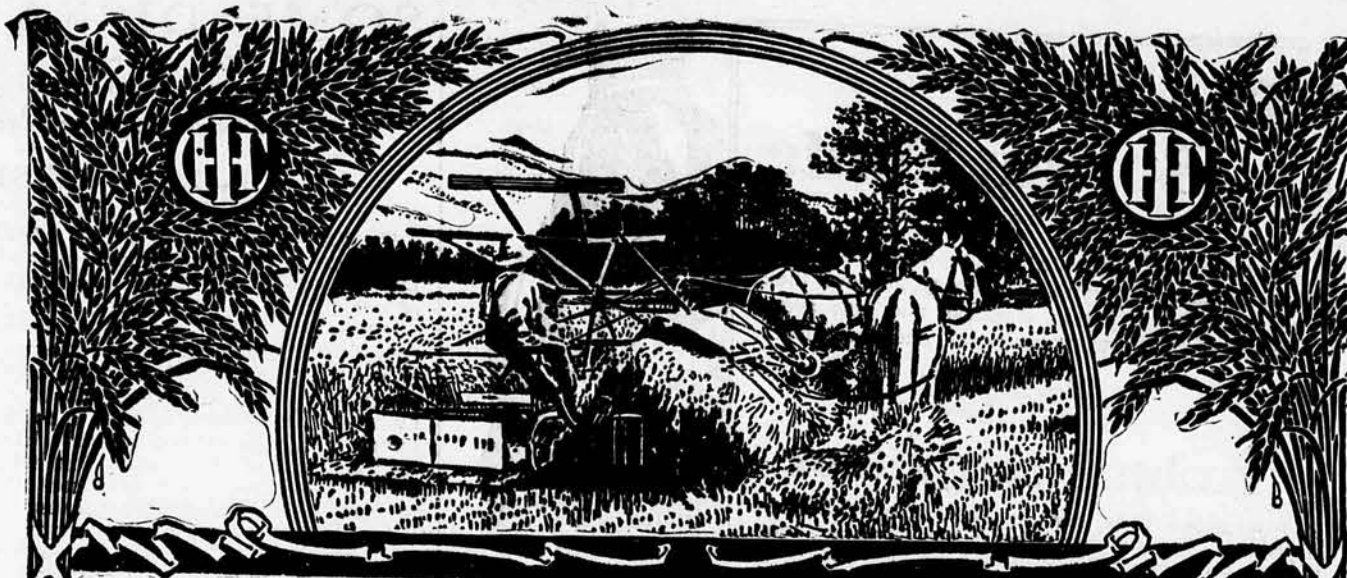
Sweet clover may be planted in the spring. The best method of seeding has not yet been determined. In the corn belt where it has been successfully grown, it is sometimes seeded with a nurse crop in the spring, or alone in the spring, often like alfalfa in August, sometimes in the corn in the last of August, and at times disked in pasture. In Iowa the preferred method is to sow with a light nurse crop of oats in the spring or to sow alfalfa in August. In Kansas it is usually seeded alone whether in the spring or autumn. It is equally well from either method. For pastures in Iowa it is mixed with timothy, ten pounds of hulled sweet clover seed, and ten pounds of timothy being sown per acre. For hay, twenty to thirty pounds of hulled seed are sown. This combination has not been tried in Kansas but no doubt where the moisture conditions are right the practice will be commendable.

Sweet clover is a better plant for hay than for hay. It is as rich in protein as alfalfa and it is quite palatable when the stock are accustomed to it. But the stems are apt to be woody and bitter when cured, especially if left until as mature as alfalfa is when it comes into the field.

Sweet clover is a biennial, so it is not a control. If it is cut before it reaches the second year it dies. The agronomy department of the Kansas State Agricultural College has a few acres to sweet clover and will plant an equal acreage in spring. It has been grown in many counties for several years and is secured from there by farmers in other sections of the county who are attempting to grow sweet clover as a commercial product. Farmers in the Finney county are growing sweet clover for pasture and seed. Hundreds of pounds of seed are sent out from each year to be planted in rotation with other crops.

Sweet clover will probably find its greatest utility on the dry lands of Kansas. Rich soil is not a necessity. It grows wild in hard clay soil and comes as nearly growing in the tracts as any known plant. One of its great rooting systems is because of the fact that it is a soil enricher. This is due to the fact that it will grow in a good pasture and good for the dry farmer, both of which are greatly needed at the present time. It makes its culture desirable as a farm forage crop. It is now being tried out for such a purpose at the Kansas State Agricultural College Garden City sub-station. It has great possibilities as a producing crop for such areas, and is a ready sale at from \$4 a bushel and when properly cured it produces from three to four bushels per acre.

Despised roadside weed, sweet clover is a splendid soil renovator and a good pasture plant for hogs. Farm animals will eat it when young and tender and it can be used by the hogs and the mower. One of it on a jimson weed or other patch.



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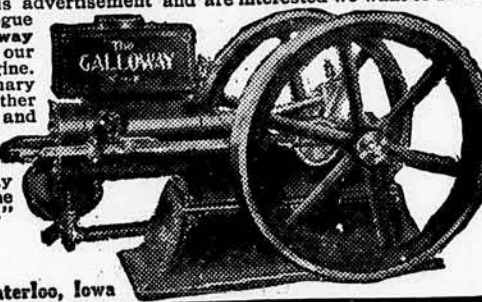
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## SOME DISEASES OF SHEEP

Failure of Sheep Raising is Largely Due to Lack of Knowledge on The Part of The Farmer Himself

By DR. K. W. STODER, K. S. A. C.

To discuss the diseases of sheep gives one a big, broad field to go over but the subject is timely and worthy of considerable consideration.

"Why are there not more sheep raised in Kansas?" is often asked, and if we let those who have owned the sheep reply we will get various answers, but a common answer is to the effect that some owners at least have lost heavily on the proposition from disease or at best have not been able to make the usual profits because of being unable to get a very large increase from the flocks. Sheep are usually profitable animals but like all other stock must be understood by the caretakers or they are not profitable, and the principal losses to Kansas farmers have been from causes which they did not fully understand. If the causes were understood fully the losses would not in most cases have occurred. The usual troubles which sheep owners now have are dogs, worms, and improper feeding troubles. Leaving the first subject as somewhat outside of the realm of the present discussion and coming to the second we can certainly attribute much of the loss to worms of various kinds. This is all loss which need not occur, however, if the farmers but understood thoroughly why his sheep get worms and where they get them. To discuss these worms let us divide them into two general classes, the lung worms and the stomach and intestinal worms. There are several belonging to each group but a pretty good understanding of the problem can be had by a study of any one of each group.

There are not many places where the old adage of an ounce of prevention being more valuable than a pound of cure is more truly exemplified than in dealing with worms in sheep. Treatment can be given any affected animal but is very seldom so valuable as is prevention of the trouble ever occurring, and certainly this is true when we speak of worms of the lungs in sheep. Prevent them from ever getting the worms. But how can we do this? Simply study the life history of the parasite and find the most vulnerable point in it, or find what is necessary for this fellow to get to the sheep and fail to supply this necessity if we can. Take for an example of the lung parasite the *Strongylus filaria*, a small white round worm which lives in the lungs and air tubes and is often coughed out or found hanging from the nostril. This parasite lives in the air passages and lays eggs for its multiplication and these eggs are passed out of the nostrils to be deposited on the ground or in the feed and water. The egg must spend a period in dampness to properly moult, and then gaining entrance to the breathing apparatus of another sheep begins to infest him as in the original sheep. It has been shown that these parasite eggs can live outside the body of a host for a year if its environment remains dry and still be actively potent. It is also easy to see that low wet pastures and swampy land are good places to supply them all that they want to multiply to the best advantage. Likewise they are able to live if they must in corral dust for a long time and may be blown in this dust to the nostrils of newly brought in sheep or lambs. Therefore to keep these parasites off the sheep farm should be the aim, and to accomplish it do not acquire coughing, weak, or unthrifty sheep coming from an overcrowded pasture as they are more likely to harbor parasites than others. When you get sheep do not pasture them, and especially lambs, in the fall on pastures that have carried old sheep in the spring and summer. Do not overpasture with sheep; it is always poor policy.

Give plenty of salt, it helps to hold the parasites in check. Do not let the water trough hold stagnant water. Keep it clean and scald it occasionally if necessary to insure cleanliness.

Do not pasture wet land with sheep. It never pays. If a pasture becomes infested do not continue to graze

sheep here but plow it up and, or, if not practical to do this, move it to horses and cattle which harbor these sheep parasites. Do not for a couple of years. Do not let sheep get water from the creek if the water is too quiet. Prefer to water where there is some current and parasites from other up the creek are not so likely to bother you.

If you should be so unfortunate to have a band of sheep infested with these parasites you will have to treat them, but no treatment yet will give complete satisfaction. The usual done is to either inject the wind pipe weak salt solution or give drenches of gasoline or kerosene but the most satisfactory results probably come from putting sheep in a closed room and making sulphur and alcohol to make a steam which the sheep must breathe in the lungs and kill some of the parasites. Obviously this is a form of treatment that can be very easily overdone so one should always stay in the room till the fumes become unbearable and then open wide the windows and let all the sheep out. This treatment should be continued for minutes every day for a week or two.

The stomach and intestinal worms of sheep are multitudinous in form and they also vary in the actual damage they do to the sheep. Some of them after entering the intestines make their way to the brain and spinal cord and cause troubles as "gid," while others tape worm class simply live in the intestines and sap the strength of the lamb or sheep, thus keeping him from growing or killing him outright. Others in the gall ducts of the liver and cause trouble. Like the lung parasites are propagated from eggs and of them must have an intermediate host as the dog or man in the case of the tape worm. It has been said that the fringed tape worm of sheep is so frequently a trouble to sheep raisers that it is second in damage in America. Let us take the fringed tape worm as an example of how tape worms and other parasites of sheep are spread. Remember that tape worms are up of a number of pieces or segments but have only one head. Each segment is sexually complete and "ripe" breaks loose from the body and passes out of the body of the host in a sort of sackful of eggs. These lodge in the water or in the feed lots only to gain entrance to feeding troughs, to be consumed by another animal to start the cycle over again. One of the worms does not affect the animal much but often cause the lambs to be emaciated, to have depressed appetites, be large headed and sometimes is even fatal.

Obviously the methods of treating this trouble are to have clean water and in large quantities and come from deep wells or at least not surface drainage. The large numbers of sheep in a room is always liable to produce a form of parasitic trouble later as is also the using of the same year after year, for the dust is hard to prevent. The dust is often full of the eggs and lambs get them into their mouths sucking wool soiled with them. Feed troughs not kept clean are the means of spreading the parasites. The means of combatting are the means of combatting.

More success can be had in treatment of affected sheep by using with intestinal parasites the lung parasites, but even these are never so satisfactory as the prevention process. The most satisfactory form of treatment for intestinal parasites is to use this one particularly, is to use a pound avordupois of best quality sulphate in five pails of water and then add to this enough more water to make a thick product measure eight



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I want to tell you all about my Celebrated Steel Shoes—why one pair will outwear six pairs of leather shoes—how a pair will give you more foot-comfort than you ever had in your life. How they will keep your feet powder-dry all the time. How light and comfortable they are the year around. I have told half a million others these facts. They have bought steel shoes of me and saved millions of dollars among them. More than that—they can be on their feet all day—at any work, without foot fatigue. And they have gained health protection.

## Steel Shoes

prevent rheumatism, sciatica, lumbago, lame back and other troubles caused by wet feet. I want to show you the way to avoid these dangers and all such troubles as tender feet, corns, bunions, chilblains, and at the same time show you a saving of \$20 a year in actual money on account of the extra wear you get from my shoes. Will you write me a postal to-day and get full particulars? Let me send you this free book of mine by return mail.

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Remove All positively cures Sprains, Ringbone, Curb, Shoe Bolls, Capped Hocks, abnormal growths and lameness.

**REMOV-ALL** Sold on money-back guarantee. Leaves horses sound and unscared. Lump Jaw is cured in less than three weeks with Adams Rapid Lump-Jaw Cure Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases. H. G. ADAMS MFG. CO. Dept. 28, Algona, Iowa

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Have imported roller chains, sprockets and pedals; New Departure Coaster Brakes and Hubs; Pneumatic Proof Tires; highest grade equipment and many advanced features possessed by no other wheels. Guaranteed 5 yrs.

**FACTORY PRICES** direct to you others ask for cheap wheels. Other reliable models from \$12 up. A few good second-hand machines \$3 to \$5.

**10 DAYS' FREE TRIAL** Write for approval, freight prepaid, anywhere in U.S. without a cent advance. We will send you a bicycle or a pair of tires from anyone else's price until you get our big new catalog and special prices and a marvelous new offer.

**TIRES** Coaster Brakes Rear Wheels, lamps, cycles, tires and sundries. Write today. MEAD CYCLE CO., Dept. 239, CHICAGO

half gallons. Of this mixture the doses vary according to the age and size of the sheep. After fasting the sheep about twenty to twenty-four hours doses are given as drenches by the following table:

Young lambs of three months, five to six drams.

Lambs six months old, about an ounce and two or three drams.

A year old sheep, not more than two ounces.

Older sheep two and a half ounces.

Overdoses are manifested by the sheep laying about and staying away from the rest of the flock. They will probably show signs of abdominal pain. Combat this by giving young sheep up to one year old a teaspoonful of laudanum in a glass of milk. The dose can be doubled for older sheep. Care must be used when drenching sheep that you do not get the head too high, thus forcing the drench into the lungs. Do not frighten or fight the sheep or trouble will result with the drench.

While this mixture, as recommended, is a pretty good drench for sheep affected with any intestinal parasite it is not of much use to apply the treatment unless it is used on all of the flock at the same time for knowing what we do of its manner of spread it is easy to see how the treated ones would quickly become reinfested if not kept away from infested companions or infested land.

It is always wise to try the above treatment on a few sheep to see if the strength is correct and the age properly estimated before drenching a large number. If directions are carefully followed no harm will result.

Some men have started into the sheep business and had things moving off nicely so were taking very good care of the sheep, especially of the breeding ewes, but when things looked best, were suddenly confronted with the reality that they were getting out of the sheep business very fast. The usual report is that they cannot understand why the sheep died because they were taking every possible care of them and that they had excellent feed. Usually plenty of alfalfa and corn or a similar diet, right here is the trouble. Keeping bred ewes on a diet too rich in nitrogen is deleterious to their health and depriving them of exercise by allowing only a small shed or feed lot adds to the trouble. It produces a disease called Neuresthenia, and especially those ewes in lamb often are paralyzed, get off feed and some die. In fact, some men may have had such heavy losses and have not been able to locate the trouble till they were put out of the sheep business. The usual treatment they accord is increased care and effort but the result is so disappointing the owner is usually convinced that some infectious disease is in his flock, but the trouble is all in the diet. No medicinal treatment will be satisfactory alone, but a complete change of diet with an elimination of so much nitrogenous food coupled with enforced exercise to get the food allowed them usually corrects the trouble.

There are of course other diseases of sheep which are not treated in this article, but the above marks out in a general way some of the most frequent causes of trouble and those to which attention is most often directed because of their being the source of a major portion of the troubles sheep owners have had to contend with.

One of the most successful swine breeders we know, and he raised about \$7,000 worth of hogs last year, lives and conducts his breeding operations on a small tract of 12 city lots. Another man who has been very successful with another breed is now looking for a place of about 10 acres as the future home of his family and his herd. The 12 lots make a rather small tract for extensive swine breeding operations and yet the owner succeeds because he knows how. Ten acres is ample room for success and the party mentioned is leaving a large farm, which he still owns, in order that he may concentrate his efforts on his hogs. One Kansas breeder who won both fame and fortune in the business, owned 1,500 acres of land and yet he never used more than 10 acres for his hog breeding. Many men find it economical to cultivate only just what land they can manage with the family help.

# Don't Lose A Single Hog! Feed Merry War Lye!

With hogs bringing around \$10.00 you can't afford to lose a single head from cholera, worms or other hog troubles. And there is no reason why you should either. Mr. Farmer! With the aid of MERRY WAR LYE you can easily keep your drove perfectly healthy.

## A Great Fattener and Health Preserver

Before MERRY WAR LYE was discovered, you used to hear it said: "Oh, Cholera is incurable." "You can't prevent your hogs coming down with Cholera," etc., but now millions of Hog Raisers know differently. For they have been convinced by the testimony of others or by their own experience that a little MERRY WAR LYE fed with the swill every day will keep hogs in a perfectly healthy condition, increase their weight and render them immune to contagious diseases.

## Feed "Merry War" Every Day

MERRY WAR LYE comes in powdered form in cans with the convenient turning top covers. The time to feed "MERRY WAR" is every day. Make it a regular part of the daily ration and keep your drove in fine condition.

Follow these directions carefully: Mix one (1) tablespoonful MERRY WAR LYE with swill for ten (10) hogs, or one-half (1/2) can with barrel of swill. Stir well and feed night and morning. If your hog are on a dry



feed ration, mix one-half (1/2) can MERRY WAR LYE to each barrel of drinking water.

## Not An Expense

MERRY WAR LYE is not an expense. It is an investment that yields an actual profit, because it not only prevents hog losses from Cholera, Worms, etc., but also puts on many pounds of good healthy flesh and fat.

So the best thing you can possibly do to insure your pork profits is to feed MERRY WAR LYE every day, just as regularly as you would the ordinary ration of swill or dry feed.

## At Your Dealer's

While most up-to-date dealers handle MERRY WAR LYE, some dealers may offer you some other brand. If so, don't accept it, but explain to the dealer that while there are brands of Lye that are good for certain uses, yet there is only one kind—MERRY WAR LYE—that is safe and specially prepared for use in preventing and curing sick hogs.

So, if your Dealer can't supply you, write us and we will give you the name of one who can; and will also send you a valuable book on "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Send for this book today. MERRY WAR POWDERED LYE comes in 10c cans, or \$4 for \$2.00, at Grocers' or Druggists'. There are no substitutes. E. Myers Lye Co., Dept. 12 St. Louis, Mo.



# Is \$21.25 To \$45.00 Worth Saving On A Cream Separator?

IF IT IS, then write for my big new Book about Cream Separators, and the Personal Price Proposition that I'll make you for a limited time only. It's the most complete and interesting book ever written on the Separator question. Full of eye-opening information and truthful pictures of Galloway's famous Bath-in-Oil Cream Separators—\$29.75, and up. We make a line of cream separators equal in every way to the highest priced separators made. I sell them direct to farmers in great quantities at enormous savings. There is absolutely no reason in the world why you should pay around \$85 for a separator that skims no better than the Galloway—if as good. That \$85 you are asked doesn't represent separator value. What it does represent is what you are asked to contribute to the many-profits system in the old-fashioned way of selling. Just compare this with my low-priced system. Then again look out for the machines that are way too cheap. You don't want one of those at any price.

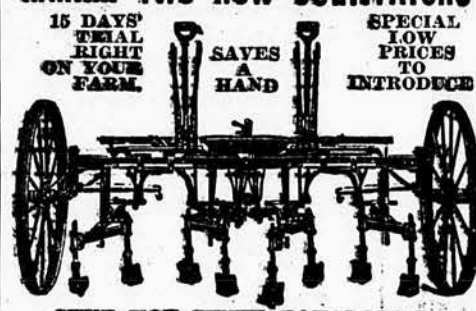


## Galloway's Bath In Oil Cream Separator

We deal on a big scale. We have to, because my whole business depends upon the law of volume. By dealing with tens of thousands of farmers I am able to sell implements direct on a small margin of profit. I am able to save you from \$21.25 to \$45 on a Cream Separator of higher quality because of this and because of my splendid factory organization and improved automatic machinery. But one thing I don't save on is materials. The only way I save on materials is by buying in enormous quantities. I don't save at the expense of quality. If Galloway's Bath-in-Oil Separators were not equal in every way to the highest-priced separators on the market, I wouldn't dare to guarantee them as I do. I wouldn't dare send them to you freight prepaid on 30 days' free trial with the distinct understanding that I'll accept them back on your say-so and refund every cent of your money, including freight charges both ways. I stand all the expense—take all the risk. It is up to me to convince you—to satisfy you. Now sit down and write for my big Separator Book. It's interesting and it's convincing. Let me make you my personal price proposition. Send me a postal NOW.

William Galloway, President The Wm. Galloway Company 383 Galloway Station, Waterloo, Iowa

## RANKIN TWO ROW CULTIVATORS



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for the very special low price offer on this, THE ORIGINAL SUCCESSFUL 2-ROW Cultivator in America. David Rankin's needs, as the greatest corn raiser in the world, compelled its inception and development. Unequalled in construction, operation and work performed. Thousands in use. Better today than ever. Saves a hand on every farm. Special low price to introduce in new neighborhoods. Genuine bargain offer to first inquirers. Costs nothing to get it. May save you \$20, besides getting the best "two-row" on earth. Don't delay writing us. Get our new Catalog of full line of Rankin implements.



# Trade in Your Old Separator for a New DE LAVAL

More than 15,000 users of inferior and worn out cream separators of various makes traded them in last year on account of new DE LAVALS, and doubtless there are many more owners of such machines who will be glad to know that the DE LAVAL Company still continues to make liberal "trade" allowances for them.

While these old machines have little actual value to the DE LAVAL Company, as the machines thus taken in trade are broken up and "scrapped" for old metal, such exchanges afford a practical example of the differ-

ence between good and inferior separators, and add to the prestige of the DE LAVAL in the neighborhood.



Now that you will soon be milking more cows, why not take advantage of this liberal offer? See the nearest DE LAVAL agent, and he will tell you how much he can allow on your old machine toward the purchase of a new DE LAVAL. If you don't know a DE LAVAL agent, write to the nearest DE LAVAL office giving make, number and size of your present machine and full information will be sent you.

## Important to Users of Old DE LAVAL Separators

While DE LAVAL machines of ten or fifteen years ago are much superior even to present day machines of other makes, during the past four or five years many improvements have been incorporated in the present DE LAVAL machines that make them simpler in construction, easier of operation and more effective in skimming.

Liberal trade allowance will be made by any DE LAVAL agent on your old DE LAVAL toward the purchase of an up-to-date style. It will pay you to investigate. Any DE LAVAL agent will be glad to explain the new DE LAVAL improvements, or a DE LAVAL catalog illustrating and describing the construction of latest styles and sizes will be sent upon request to nearest DE LAVAL office.

## THE DE LAVAL SEPARATOR CO.

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NEW YORK  
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## 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.  
A. M. PIPER, 302 Popular Building, Des Moines, Iowa.

## Get Our Price On The Only Cyclone Proof Mill



IT'S a wonder. Here's your chance. Absolutely the only reliable, self-regulating windmill—adjusts its folding wings automatically to all winds—cannot break or carry your tower down. Large wind surface—works in lighter winds than other mills. It requires less attention than others. Patent grease cups hold grease enough to oil it for a year—no climbing towers. No creaking or groaning noises—no sleep lost. This mill is the greatest wind-engine ever built. Made to fit any tower, or we furnish tower. Costs practically nothing for repairs in a lifetime's service. Many in use over 40 years. Will outlast any two steel mills—gets one stroke of the pump with each revolution. If properly cared for, there is no "wear-out" to

## Althouse-Wheeler Vaneless Windmills

Every part is built of the very best material. Every mill is tested and inspected by experts before it leaves our factory. You can't go wrong when you choose this mill. Thomas Cripps of Cottage Grove, Wis., who bought one in 1873, writes: "This mill has given me perfect satisfaction. The cyclone, which destroyed thousands of dollars worth of property, had no effect on it." Don't decide on any mill till you have all the facts. Get our Free Book on Wind Power. Read about the miraculous triumphs over cyclones. You'll be surprised at this wonderful mill. Without an equal. The letters of farmers who have tried other makes prove it. Biggest power value for the money. Our ironclad guarantee protects you. A free book for you. Write a postal for it now.

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Steady and  
Long  
Service

The Wings  
Fold  
and  
Fool  
the  
Storm

HOW TO RAISE CALVES  
without milk. Use Blatchford's Calf Meal.  
Ask your dealer. Write D. O. COE, Topeka,

## Big Rambler Bargains

One five passenger one seven passenger 1909 Rambler car, fully equipped. These cars have been thoroughly overhauled and in first class condition in every respect. For sale at a bargain.  
J. R. NAVE, 928 E. 15th St., Kansas City, Mo.

DAIRYMEN, TAKE A LOOK AT THE STRITE GOVERNOR PULLEY. It's the original and "only thing" for driving cream separators with gasoline engines. Once tried, always used. TRY ONE. Ask your dealer for a "Strite" or write us direct. Don't take an imitation. STRITE GOVERNOR PULLEY CO., 326 So. Third St., Minneapolis, Minn.

## DAIRY

A cow can only put into the pail that which she finds in her feed no matter what her breeding. She is a machine and a very delicate one. As such she can only do her best when she is treated the best.

Keep the flanks and udders of the cows clipped. It is much easier than to clean the parts before milking. It helps to keep dirt out of the milk. To clip the cows all over once or twice a year will do them good.

Pigs are a necessary part of the farm dairy just as they are of the farm feed lot. Whether you are feeding for beef or milk the pig may be depended upon to make a nice little bunch of money on the side. And, as in the case of other farm animals, the pig is a money making machine which does its work according to quality.

Another way to get pleasure out of the dairy business is to weigh and test the milk so that you will not only know what each cow is doing but will know what you are doing as well. In such a way you can weed out and build up your herd. If they are graded your interest will soon cause you to want pure breeds because any one likes better to work with good tools than with poor ones. A good knife costs more than a poor one but it costs no more to keep it in shape and it will do its work longer. Same with a cow.

A subscriber writes that he has just moved to Kansas from the great wheat belt of western Canada and wants to know where he can get some Ayrshire cattle with which to start farming operations right. We believe our correspondent has shown his wisdom in at least two points. He has removed from a purely grain growing country to one where diversified farming is more easily possible and he is seeking to get a start in the kind of cattle which he knows and likes best. There is only one best breed of dairy cattle and that is the one you like best.

All this talk about proteids and carbohydrates sounds pretty foolish maybe but perhaps that is because we do not quite understand. Put the matter another way. All suitable dairy rations contain substances which serve two distinct purposes. Those which we class as the proteids supply material for the development of bone, muscle, hair and the curd of milk. These are found most plentifully in alfalfa, clover, soy beans, cow-peas, bran, cottonseed meal and like feeds. The fat stored in the tissues of the body and in the butter-fat of milk is supplied by the carbohydrates and fat of the feeds. In these are also stored the animal heat and the bodily energy of the animal. Carbohydrates are found in large quantities in corn, wheat, barley, fodder, and timothy where they appear as starch or in the sorghums and sugar beets as sugars which the digestive apparatus converts into starch.

### Alfalfa for the Silo.

A subscriber in Harvey county, Kansas, inquires if alfalfa can be made into silage without first running it through the cutter. If the alfalfa were tramped down well would it keep all right? He has no pasture and asks what we would recommend for feed for cows until silage can be made from the next corn crop.

Alfalfa may be made into silage without running it through the cutter but it does not pay. It is extremely cumbersome to handle and it cannot be made to cure or keep so well as if it were cut before putting into the silo.

A Shawnee county farmer put up a lot of whole alfalfa in an old ice house as an experiment. He found that it got so hot that he feared his buildings would burn. When the silage was taken out it was in the form of a brown, slimy looking mass that did not appear in the least appetizing but which the cattle ate readily. Of course green alfalfa was used. We do not think any success could be had by putting alfalfa hay in the silo.

Other experiments with whole alfalfa show the same results or worse. It does not pay. Even when run through the cutter alfalfa does not make as good silage as does corn though it may be alternated with corn



in the silo with excellent results. Corn is the best known silage plant and alfalfa is the best known hay plant.

In regard to the feeding question would say that probably a ration composed of 10 pounds of ground oats, 2 pounds of corn meal, 6 pounds of alfalfa and plenty of corn stover, or one made in this proportion, would prove very satisfactory. Wheat bran may be substituted for the ground oats though it is not quite so rich in protein and is less productive of milk flow.

This ration can be used until green feed appears when soiling may be practiced.

Pasture is the great thing in dairying but ensilage is mighty close to it in value and can be used the year round.

#### Home Dairying.

We take your paper and think it is fine. It is very instructive for farmers, and has good ideas for the whole family. We thought we would write you about our dairy herd, which, while small, is giving us good returns.

The herd consists of 9 head of milk cows, 5 pure bred Jerseys and 4 grades. We are milking 8 cows at present. Three of them are about dry now. We feed them bran and ground Kafir corn mixed, twice a day; also alfalfa hay and corn fodder. They are doing well on this ration. We are going to have all pure breeds as soon as we can. We have a fine young Jersey bull. One needs good blood on both sides. We keep our cows in the barn at night and also when it is stormy, letting them out for a while for water and in order that the stable may be cleaned.

We have a separator, which every farmer needs for dairying. We also have a tester and a butter worker, which are fine. We live on a small farm of 60 acres, have quite a little alfalfa out and are going to build a silo in the early summer. We think they are surely a success.

In making butter, first of all keep everything sweet and clean. You can not use too much clean water or do too much scalding of your separator, cream cans, churn or anything that is used in butter making. Also fresh air is required for airing such things. We have a barrel churn and churn three times a week. We let the cream get a little sour, keeping it as near the same temperature as possible. In the summer we put it into the well, which keeps it nice and cold. We churn our cream at a temperature of 62 degrees, and the butter is nice and hard when done. We think butter can be churned too much after it begins to gather, so we churn it just so we can run the butter milk off, leaving it in little granules. This enables us to wash and salt the butter with much less working. After the butter milk is all run off, wash in fresh cold water until butter is as nearly free from milk as possible, then drain all the water off and salt with good fine salt. Our rule for salting is to have it a little too salt before it is worked. Then after it is worked it has a fine flavor. Of course, some people like more salt than others. Work the salt into the butter by chopping it with a ladle. Do not work it or you will spoil the grain in your butter.

We churn in the morning and put the butter in a granite pan, setting it in a cool place until evening, when it is worked well to get all the water out. Our rule for working is to work it so that when you tip the worker there will be just a few little drops of the water start to run from the butter. Then shape it into rolls by pressing with ladle, then roll it in a round butter bowl. I never let the ladle slip or stroke the butter, for it makes it look slick and spoils the grain. In working butter by these rules it will be free from butter milk and water, and will keep for weeks, as it has been tried. One can work it this way even with no butter worker, but be very careful with your ladle if you want nice butter.

We churned two days' cream on March 1 and got 22 pounds of butter. We keep our butter in the well in the winter the same as summer, having buckets made to order. I should like any information you can give which will enable us to improve our butter making.—Mr. and Mrs. F. W. Dunlap, Augusta, Kan.



Rambler  
Sixty-five

Forty-inch  
Wheels

**T**HOUSANDS of young men on farms and ranches all over this country are proud to be driving the Rambler today. In the Rambler the healthy boy finds recreation when his tasks are over, a sense of responsibility and pride in driving such a car and a pleasure exceeding any offered by the town. The boy with a mechanical turn, after he knows about cars, becomes a champion of the Rambler. It has so many little advantages of comfort and convenience, so easy to operate, so economical and so accurately made. The safety cranking device protects you against injury; the Spare Wheel is the only satisfactory solution of the tire problem; the Offset Crank Shaft enables you to glide along quietly behind a loaded wagon on a narrow road or take the hills and deep sand without rushing. These features, with the gasoline lock, adjustable steering pillar, aluminum front floor, accessible engine, self-acting door lock, seven-eighths elliptic springs, big wheels and tires, shock absorbers and large brakes, are appreciated by the young man who has learned what a motor car should be.

The new catalog is ready—send for it. Ask also for the Farm Owners' Number of the Rambler Magazine. A postal, giving your name and address, will bring these books free.

### The Thomas B. Jeffery Company

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## Every Great Western Feature Is a Profit-Advantage to You

Write  
Now

Great Western Cream Separators are different from all others—different in principle, different in materials, different in construction, different in results. And just where they are different, they are better. That is why the Great Western Separator skims so much closer, lasts so much longer, runs so much lighter, and is so much easier to clean than any other separator made.

The features that make Great Western Separators different, net enough EXTRA profits, above what any other separator would make, to pay for itself QUICK. The Great Western bowl, for example, is the one that follows nature's laws by delivering the cream from the top and the skim milk from the bottom. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming COLD milk.

The bowl of the Great Western is self-draining and self-flushing. There are no long tubes, no minute slots, nooks, corners, crevices or ragged edges to hold milk and collect dirt and make it unsanitary. That is another reason why Great Western owners get first grade butter and why the

### Great Western Cream Separator

is so sanitary and remarkably easy to clean. No other separator classes with the Great Western when it comes to materials. Compare the Great Western bowl, bearings, spindle, main gear, spiral gear, pinion, main shaft, crank shafts, frame, tank and every other part—with any other separator. Then you will understand why the Great Western keeps on making the biggest profits for the longest time. Another reason is the minimum vibration of the Great Western: the bowl, gears and all

other heavy parts are low down—close to the ground. Yet the base is sanitary, the tank is low and the crank is at the proper height for easy turning. The Great Western Separator is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50% to 100% harder than balls others use. The ball races in the Great Western are tempered so hard that you cannot cut them with a file. That is why the Great Western beats them all for easy running and long service.

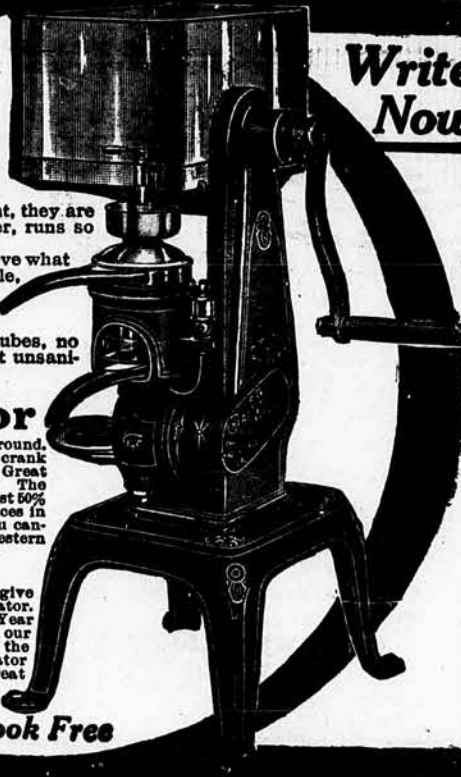
#### Any Kind of a Trial You Want and Real 5 Year Guarantee

There is absolutely no question about the superiority of the Great Western Separator. Your dealer will give you any kind of a free trial you want. Why not TRY the Great Western alongside of the next best separator. That is all we ask. Then if you decide to keep the Great Western you are protected by our Million Dollar 5 Year Surety Bond—a guarantee that means something. You take no risk before you pay or after. Let us send you our fine book free. It tells all about butter fat profits and cream separator advantages. It tells plainly about the materials we use for every part of the Great Western—shows what is best and tells why. Don't buy any separator at any price till you read what Great Western owners say in our book, then you'll understand why the Great Western is the best-paying separator investment in the world. Simply mail postcard

now and request Free Book No. 0433

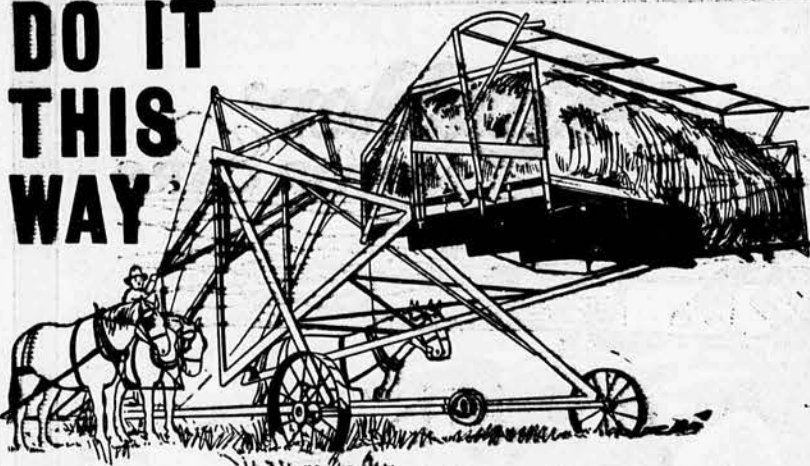
SMITH MANUFACTURING CO., 158 E. Harrison St., Chicago

Book Free





# DO IT THIS WAY



When you use the time and "elbow grease" of yourself or hired man, to pitch hay onto and off of your wagon, your horses are standing idle. Use this perfected and fully proven

## SUNFLOWER STACKER

And let your horses do the pitching. They can do it faster and better. This stacker takes its load direct from the header, the binder or the windrow.

It carries its load at any height, elevates it up to 20 feet, while load is on way to stack. Approaches stack from either side or end. It dumps its load automatically, under control of driver—all or part of it in any place. Lowers box or fork without backing from stack—turns square corners—guides independently of horses, by rudder wheel which driver operates.

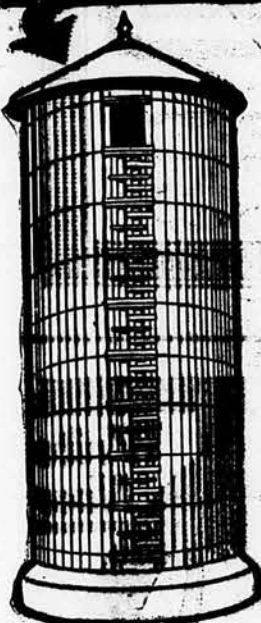
Saves half the work of harvest or haying—makes harvest time shorter—giving more time for other work. Saves grain and alfalfa seed—no dragging load on ground or trampling on wagon. Pays for itself in three weeks.

Every stacker fully guaranteed. Made of most suitable materials, of finest quality—to last a lifetime. Any 16 year old can run it. Greatest labor and time saver, since the coming of harvesting and mowing machines.

Write us today for our "stacker circulars." These show what present users think of the Sunflower.

Sunflower Implement Co. Manhattan, Kan.

## 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 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

## The GRANGE

Straws.  
What are you doing to help the cause along?

Have you paid your dues for the year? Better pay them and not bother the secretary with little dribs.

The secretary has a thankless job, help out by paying your dues one year in advance.

This month is a good time to talk seed corn, also a good time to talk against that congressional pap—the free seed graft.

How do you like the work of the Kansas legislature? Did your representative represent you or his own personal views?

Study the Canadian reciprocity question and be able to urge its defeat or ratification. The Patrons should be posted on this subject.

Some of the secretaries are sending in reports of their granges for this quarter. Please do not do so. The report for this quarter should be made at the first meeting in April, and will the secretaries and treasurers please be prompt? This quarter is not finished until March 31, and the State Secretary would like all of the particulars for the quarter and as soon in April as possible.

### Valley Grange, Coffey Co.

At the regular meeting of Valley Grange on February 18, five new members were initiated, routine business transacted and time named for a special meeting of the grange to consider ways and means to increase our cooperative business.

Special meeting held February 15, and after two hours of discussion and the consideration of several plans, a purchasing committee of five was appointed to look up firms which are willing to give granges wholesale prices.

The committee is to get prices on all commodities used by the Patrons. A selling committee was also elected to secure the best prices possible for all products of the farm that are sold on the market.

Their instructions are to report as soon as anything definite has been learned.

There has been a large attendance at all of the late meetings of our grange.

Our deputy master, A. M. Bunge, on February 23, organized another grange in Coffey county with a charter membership of twenty-nine.

Much credit is due Brother Bunge for his energetic zeal in spreading the good cause.

Wake up brother deputies and get busy.

### Manhattan Grange.

Manhattan Grange P. of H. at their meeting February 15 had a special feature in the celebration of the eightieth birthday of one of their oldest members, Mrs. Patience Ingraham, who was one of the pioneers of early Kansas. About one hundred people gathered at the hall, enjoying a social time and a grange dinner. After dinner Worthy Master B. O. Cooley, on behalf of the membership presented Sister Ingraham with a solid silver spoon, appropriately engraved, as a souvenir of the occasion. Bro. Dunger read a poem dedicated to her and Rev. Holt made a few general remarks.

Business session followed with discussions of a wide range of subjects of interest to all.

March 1 was regular initiation meeting at which one first degree member, and two third and fourth degree members were received.

A fund has been started among the members as a birthday fund for the oldest members. This is only a voluntary fund among the members and is no part of the grange business, proper.

One of our old members, Mrs. Mary McDonald, has just recently passed away.

The Grange insurance grows steadily here and certainly will continue to grow, as it now saves many dollars to those insuring in this way over what it would cost to insure the same amount of property in old line companies.

## MOISTURE

Absolutely necessary to make plant life thrive.

### The Topeka Packer

produces a reservoir or storage tank for moisture before planting by packing the soil to prevent waste of water by evaporation, thus insuring a larger yield of any kind of crop. It produces a dust mulch for winter wheat or alfalfa, thereby holding enough moisture in a dry spring to carry the crop to full maturity. Profits of 50 to 100% have been made by many who have used a Topeka Packer. Send for circular No. 21. The United Mercantile Co. Topeka, Kansas.

J. A. Cohen, Anderson, Mo. Use.

### Harrow While You Plow

Save Time and Money With the Kramer. and combine the perfect Seed Bed in one operation. Can be attached to any wheel plow. Saves all the labor of harrowing and locks in the moisture for the plant. Be sure you get the Original. The Kramer Co. Patrons, Illinois. Don't be fooled by cheap imitations. Write for free illustrated catalog.

### FREE Murray Style Book

We want your 1911 Catalog in the home of every Farmer in America. 112 pages of good things. Buggy, Harness and Saddle Bargaining 34 Illustrations; 120 styles Vehicles, 16 designs in Harness, Saddle and Buggy. Send for this Big Free Book today. Write: R. Murray Mfg. Co. 357 E. 4th St., Cincinnati, O.

### BROWN FENCE

Rust Proof - Ball Strong. Fences for horses, cattle, sheep, hogs, chickens, etc. 160 styles. BARGAIN PRICES: 14 Cents Per Rod Up. We pay the freight. Lawn Fence and Catch. Free catalog and sample. The Brown Fence & Wire Co., SEPT. 20 CLEVELAND, OHIO

### 13 Cents a Rod

Feet 18-in. 128-rod roll. Hot Fence; 14 for 20-inch; 14 for 24-inch; 14 for 30-inch; 14 for 36-inch. Farm Fence. 14-inch Fencing. Fence 12-18. Sold on 30 days trial. 50 rod good Ideal Farm Wire 12-18. Catalog free. KITSILMAN BROS., 207 E. 1st St., MUNCIE, IND.

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### \$10.00 Free Food \$14.00 Free Wind Mill

We manufacture all types and styles in wire. In wire, we pay you to invest in wire for catalog and price list. GURRIE WIND MILL CO., Seventh St., Topeka, Kansas

### The CLIPPER.

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### FREE TO FARMERS

A Valuable 10-page book entitled "SILO PROFITS"

Written by one of the most successful feeders, farmers and dairymen in the world. (2nd) Every Farmer in America should read this book, and along with a supply of these books we will mail one copy free to each person asking for it. It gives the actual experience of these farmers and is their own words. Our factories are located at Anderson, Ind., Des Moines, Iowa, and Kansas City, Mo. Write now for this book. INMAN SILO COMPANY, 311 Union Building, Anderson, Indiana



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Auto Tires you have had repaired? Not send them to a repair house that has a reputation for good repair work. Our members boost us. Why? Because we quality into your repairs and know how to make them strong. Tires we retread you will give you satisfactory results. We are guaranteed.

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Gasoline—Distillate

Best and best power known. Average cost one cent per horse power hour. A superior standard of efficiency saves time, fuel and repairs. We refer you to the many satisfied customers. High grade engines. Our specialty 25 years.

**Five Year Guarantee**  
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.

**WITTE IRON WORKS CO.**

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14 1/2¢ for 24-inch  
16 1/2¢ for 28-inch  
22¢ for 42-inch  
26¢ for 46-inch  
Heavy Poultry Fence  
CATALOG FREE  
78 other styles all sold on  
30 DAYS TRIAL  
rock-bottom prices

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MADE. Built strong chicken-fight. Sold to the user at Wholesale Prices. We Pay Freight. Catalog free. **COILED SPRING FENCE CO.,** Box 285 Winchester, Indiana.

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The pleasures, the work and the profits of bee keeping are covered in "Gleanings in Bee Culture," the trial subscription 25 cents. Write for Bees and free catalog—both

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liminary search. Booklet free. **MILO B. STEVENS** Estab. 1861, 608 F St., Washington; Londoncock Bldg., Chicago.

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Gophers of all kinds. Endorsed by State Experiment Stations. 1,400 tablets prepaid for \$1.50. Warranted. Baiticide Tablets 25 cents. Ask druggist or send direct. Booklet free. **F. D. Chemical Co., Fort Dodge, Ia.**

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of cloth, leather and rubbers without sewing. Package 10c. **K. & CO.,** 507 N. Centre Ave., Chicago.

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two stamps and I'll send you 10 beautiful postcards and tell you about my big SURPRISE. **CREDIT, 83 Success Building, Des Moines Iowa.**

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one of the finest rifles made. You have one. All I ask is a try work. Write today and I will about the gun and how to get it. **195 Popular Bldg., Des Moines, Ia.**

## Horticulture

### Pruning the Grape in the North.

We do not think of vineyards in Lat. 45° N., but farmers are getting little stands of grapes, more and more as they see others have them. For a long time grape raising was thought impossible on a farm or "lots of work with poor pay," the pay depending largely on the knowledge one had that no fruit needs pruning or protection so much as the grape. It was something I had to learn on a farm in Minnesota back in 1867. Experience is a teacher. Many of the farm publications often dispute each other on the time to prune. Here the fall is best, provided the leaves have dropped and the vine has been completely dormant long enough before heavy freezing. Only a few varieties should be tried. Most of the vines are too tender. The Beta, Concord and a few others will do. Hybrids or seedlings once in a while prove just it. But that is another matter anyhow, and pruning time, if the work has been neglected, is coming. If the vine was fall pruned do not hurry to uncover; if unpruned, uncover while the frost is still holding the sap in the roots—that is, the vine is frozen.

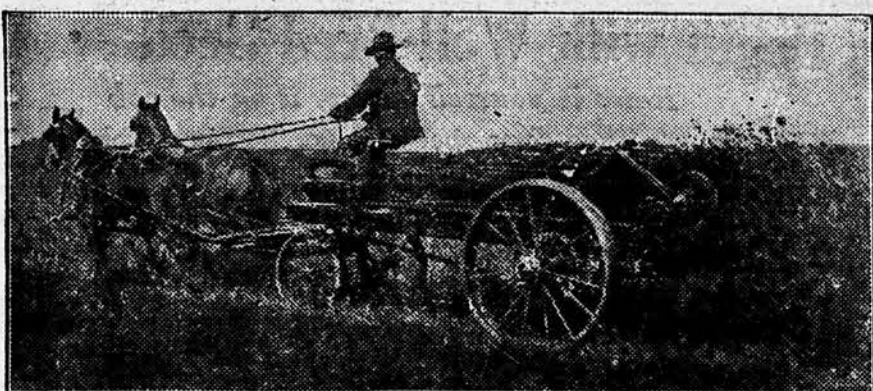
The use to be made of the vine is now to be considered. Shade or fruit, arbor, trellis or stake training. Then, too, what is the variety. Different vines vary in vigor in different places so all can not be trimmed alike. The slope of the land and the space to occupy must be noted. But little stake or arbor training is used with the farmer in this section so this chapter is devoted to trellis work. This method is divided into two standard systems, the Kniffen and the High Renewal systems. We use both systems, but if the good lady of the house is to do the work, with, maybe, a little help from the children use the renewal system as it is less work.

What I started to write about was the neglected pruning. When the vine is uncovered and shows mass of tangled branches if not too stiff with frost straighten them out. Cut out all of those long slender shoots. Cut all the old wood back to the trunk except the two best ones. Shorten these to six or eight buds. If you wish a two-story, or Kniffen system, and can find a good sucker for a trunk and vine for bearing laterals, measure and cut it to be trained for the purpose. Have no mercy now or at any other time for useless suckers. Then there is that scrub. Scrubby vines are poor things. Cut them out. Let what remains lie on the ground until warmer weather then tie up with great care and don't forget to go out once in a while and do some more tying. Use soft rags. Many farmers are built so they can never find time for any purpose unless it is some large affair. The sugar orchard or spring politics blinds our chances to do this pruning so the wife is often the pruner. Maybe that is a good thing for the fruit as the vine is apt to come out better from her care than it would under the treatment of some impatient and unobserving husband.

Rather than replace a badly neglected vine on the trellis I would cut the whole back to two buds. I have neglected to say it is only the wood made last year that throws out laterals and bears this year. Those buds on old wood will not produce fruit. Remember the side vines or laterals are the fruit bearers.

When you tie up the vine, notice how you can cut here and there in the fall or cherish certain buds for new shoots and then have a vine you will prize. Through the summer prepare to pinch out and rub out. Visit the vines often. Here a bud is going to cause trouble, rub it out. Pinch the terminal growth of that stem that will steal so much strength needed in the laterals. Watch the laterals. When the bunch of fruit shows and two leaves are growing beyond the bunch pinch the lateral just after the second leaf. All summer it will be pinch, pinch. Pinch hard and often, then some more. That lateral has started again but only one leaf should be allowed this time. Pinch and don't forget it. If I wish to raise show bunches I girdle a stem near the trunk.—Harison Lowater, Rock Elm, Wis.

A grin is better than a groan. "Laugh, and the world laughs with you; weep, and you weep alone."



## Do You Intend To Abandon Your Farm?

In New England there are hundreds of abandoned farms—abandoned because the soil has been drained of its fertility. Had these farms been properly fertilized they would still be producing bounteous harvests.

New England farms are not the only ones that are being depleted of fertility. There are thousands of other farms which are rapidly approaching the point where further cultivation will be unprofitable unless some means is adopted to renew the fertility of the soil.

If you do not intend to abandon your farm, it will be necessary to supply fertilizer to the soil. It is not only necessary to apply manure, but it is absolutely essential that it be applied evenly and in proper quantities.

Manure cannot be spread evenly by hand. Experience has demonstrated that the spreader is the only method by which manure can be applied uniformly.

It is just as necessary to exercise judgment in selecting a spreader as it is on any other subject. There are many spreaders on the market. The IHC spreader has proved its superiority by giving the users years of efficient service. With an IHC spreader you can regulate the distribution of manure so as to make every ounce count. Adjustments can be made to spread a light top-dressing or a heavy covering. This is possible because IHC spreaders have a wide range of feed, and the long, square, chisel-pointed beater teeth thoroughly pulverize the manure that is applied. Wide tires and roller bearings insure light draft.

IHC spreaders are made in three styles—

### Cloverleaf—Corn King Kemp 20th Century

Cloverleaf spreaders have endless aprons. Corn King and Kemp 20th Century machines have return aprons. These machines are made with capacity suitable for farms of any size.

Call on the IHC local dealer and let him show you the style and size best suited to your purpose. If you prefer, write direct for catalogue and full particulars.

**International Harvester Company  
of America Chicago U S A**  
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**IHC Service Bureau**  
The Bureau is a center where the best ways of doing things on the farm, and data relating to its development, are collected and distributed free to every one interested in agriculture. Every available source of information will be used in answering questions on all farm subjects. If the questions are sent to the IHC Service Bureau, they receive prompt attention.



**Cyclone Ornamental Fence** is made of strong wires, heavily galvanized, rust proof. Reverse twist is made on the stay, not between, which absolutely prevents slackening. Cyclone Farm Gates are made of high-grade carbon steel and are strong and durable. No holes in the frame to weaken it. Write for FREE catalog. **CYCLONE FENCE COMPANY,** Dept. 131, Waukegan, Ill.

## ABSOLUTELY THE MOST ECONOMICAL PUMPING POWER!

Goodhue Windmills are simple, strong, durable and safe. Are self oiling and automatically governed to get the most power out of any wind, strong or light, and still run quietly and steadily all the time. **REQUIRE NO FUEL**  
Many Goodhue Windmills have been working every day for over 20 years. For 50c a year we insure them against tornadoes, cyclones, runaway teams, everything except willful act or neglect. Write today for our free catalogue which gives you exactly the information you ought to have when you buy a mill. We will also explain our 5 year windmill insurance policy that absolutely protects against loss.

**APPLETON MANUFACTURING COMPANY**  
319 Fargo St., Batavia, Ill.

## BUY HARNESS FROM MAKER—SAVE 1/3 TO 1/2

You not only save one-third to one-half when you buy Harness from us, but you get the best Harness in the world; made by expert harness makers, in a splendidly equipped shop, from the best materials money can buy. Every Harness built on honor and sold direct with but one small profit between maker and user. Get our big Harness Book before you buy. Free—Send today. **H. & M. Harness Shop, 14 Ill. Av., So. St. Joseph, Mo.**





## Begin with Well-Bred Seed

Raise it yourself or buy it on the cob

Then remember that the best-bred corn can produce only nubbins if it does not have food. Supplement the clover sod and barnyard manure with 50 to 100 pounds of muriate of

# POTASH

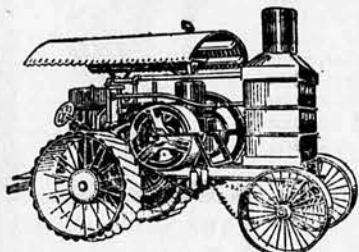
and 200 to 300 pounds acid phosphate per acre, broadcasted before harrowing.

It will pay to also drill in with the seed 75 to 100 pounds per acre of Kainit to keep away cut-worms and root-lice. In this way Potash Pays.

Write us for prices.

GERMAN KALI WORKS, Incorporated  
Continental Bldg., Baltimore Monadnock Block, Chicago  
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## A GAS TRACTOR FOR ALL WORK



**PLOWING  
SEEDING  
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It has been customary to consider the Tractor as adaptable only for plowing and threshing. But the Hart-Parr Gas Tractor was designed for all farm work. It will draw a gang of harrows, seeders or harvesters as easily as a gang of plows. It will do the work of 22 to 25 horses, and with it you can finish your seeding or harvesting a couple of weeks earlier than with horses.

The Hart-Parr Gas Tractor costs about one-half as much as its equivalent power in horses. Using the cheapest kerosene for fuel, its cost of maintenance is a fraction of the cost of keeping horses. When the engine stops, the "feed bill" stops. The money saved in wages and feed bills, will pay for a Gas Tractor in a few seasons.

**Lowest in First Cost—  
Cheaper to Operate—  
Costs less for Upkeep—  
than any other Gas Tractor.**

If you are not thoroughly familiar with the possibilities of the Gas Tractor, write for our catalog and full particulars.

**HART-PARR COMPANY**

212 LAWLER STREET  
CHARLES CITY, IOWA

**Best feed  
for your  
baby  
chicks**

It is no trouble to hatch chickens, but it takes the proper feed to raise them: use **Otto Weiss Chick Feed**

a complete balanced ration; it develops bone, flesh and feathers, cures your chicks, and they make a rapid growth. Send for circular and prices on Poultry Supplies

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**Get the ECONOMY BROOD COOP.**  
Made of best grade galvanized steel and heavy small mesh galv. netting. Very best of workmanship—cannot rot or burn—you can stand on it—good for a life-time.  
**PREVENTS** little chicks from DOGS, CATS, HAWKS, OWLS, RATS, and all other VERMIN. Is sanitary, Lice and Mite proof.  
All conveniences ever known are in this coop. Splendid for setting hens. Send Your Order Today, and have it ready for setting.

**CHARLEY GRIMM'S**  
Guarantee goes with every coop. Absolute satisfaction or your money back.  
SEND \$3 for a sample coop or \$3.50 freight prepaid. If you will order five (only \$15) we will SEND YOU ONE COOP ABSOLUTELY FREE and WE WILL PREPAY FREIGHT.

**GRIMM MANUFACTURING CO.**  
49 Main Street, ATCHISON, KANSAS

**125 Egg Incubator and Brooder for \$10**  
Why pay more than our price? If ordered together we send both machines for \$20.00, 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.**

**\$10 BUYS NATIONAL INCUBATOR AND BROODER**  
Just think! \$2.00 incubator and \$4.00 brooder for \$10. Don't pay more for equal or poorer quality. We pay freight to your station. 125-Egg National Incubator has strong, fireproof, metal case, high, roomy nursery. Automatic heat regulator. High-collared metal tank. Thermometer thermometer. Hot water heating system. Incubator and brooder in one unit. Wide dead air space. Brooder has safety lamp—can't explode or break. It's roomy, cozy, free from drafts, easy to clean, every part quickly reachable. Order both incubator and brooder direct from this advertisement. We guarantee satisfaction or you get all your money back quick. Brand new poultry book free. Act now on this bargain.

**THE NATIONAL INCUBATOR CO., 133 16th Street, Racine, Wisconsin**

**125 Egg Incubator \$2.00**  
**125 Chick Brooder \$4.00**

## POULTRY

### ASK QUESTIONS.

Our readers are invited to ask our Poultry Editors any questions on anything pertaining to the poultry business. These editors are competent, practical poultrymen of successful experience, and they will be glad to give their experiences on Poultry Diseases, Feeding, Housing, Mating and Breeding. If any one desires to buy any breed of fowls that at any time may not be advertised in our columns, our Poultry Editors will endeavor to put prospective buyers into touch with reliable breeders of any particular breed or variety.

### Poultry Notes.

BY JUDGE CHAS. E. SMITH, BAYNEVILLE, KANSAS.

The recent cold weather has been the cause of a decrease in egg production of flocks that were poorly housed. This could be avoided by covering the house with tar paper. The cost is but small and your profits would be considerably increased.

Too much care cannot be exercised in the selection of breeding stock. Use trap nests when possible to locate the best layers. By eliminating the poor layers and those deficient in standard requirements you can build up a strain that will be good layers and blue ribbon winners.

Don't change your breed every two or three years. Stick to the one you have and breed it to perfection. You will have no better success with another.

Keep the eggs for hatching in a cool place, 45 to 50 degrees is about right.

Don't be so fussy over the shape of the egg; the chick will be as good and strong from one as the other.

When you see a lazy flock of hens, it is easy to judge the owner.

Damp roosting places and bare, soggy runs are ways to the poultry grave yard.

Cull your flock closely. Get rid of the poor stuff and give the good ones a chance.

Feed corn sparingly; it is not an egg producer. Wheat and oats are the best feeds. Soak the oats until soft before feeding.

You cannot make an improvement by crossing breeds. This has been demonstrated—years before you knew one chicken from another.

Keep the nests clean; it will help to keep the mites out.

Bad health, weak vitality of breeding stock, insufficient moisture or the lack of it in the incubator, and the lack of attention on the part of the operator is the cause of chicks dying in the shell.

It is time to clean up and repair your colony houses and brood coops before the incubator hatches.

Now is the time to get those eggs that you are going to raise your next season's cockerels from. Write to the breeders of your variety and get their mating lists. You will find reliable breeders advertising in KANSAS FARMER.

The New Standard of Perfection, issued by the American Poultry Association, is now ready for delivery. Send KANSAS FARMER \$1.50 and one will be mailed to you. All breeders of thoroughbred poultry should have a copy of this work. Otherwise you can not know what to breed for.

If you have had a little bad luck, don't become discouraged but buck into it the harder. The quitter never makes a success.

The next Kansas State Poultry show will be the show of the year. Just keep your eye on it.

When you are shipping out a bird to one of your customers ask yourself if you would be willing to pay the same price for it.

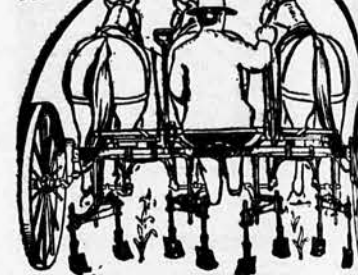
The helpful hen must be attending strictly to business, for eggs have not been so plentiful or cheap for several years as they were the last week of February, when they retailed in Topeka at 19 cents per dozen.

## I Say, NO!

That's what Mr. Veach wrote us. Read his letter.

South Dakota, June 29, 1914.  
D. Rankin Mfg. Co., Tarkio, Mo.  
Dear Sir: You sold me a two-row cultivator a short time ago on the understanding that you would send me back if not satisfied. Do you expect to get the plow back? I say no! It is the best plow I ever hit to. It saves me \$2.00 every day I use it. I think it is the best two-row cultivator made. I would take \$70.00 for my cultivator today. I have 160 acres of corn, 700 acres of land. Wishing you the best success with your cultivator, I am yours truly,  
COLLINS VEACH

**WHY DON'T YOU TRY ONE  
WRITE TODAY**



**WRITE FOR FREE CATALOG**  
**David Rankin Mfg. Co.**  
Box 21, Tarkio, Mo., U. S. A.

## A Business

**Worthy of Your  
Best Efforts**

Many of the best and strongest men of the country are going into poultry because of the fine opportunity it affords to make money. They are adopting the

**Queen  
Incubator**

way—making the poultry business a REAL business. I want to send you my book and tell you more about "the Queen Incubator way" of making more money.

My poultry-loving friends, I believe I can convince you that it is the liveliest business you can go into. I will not only tell you, but I'll make you the most likely to offer you ever had in the way of starting up. It is not play, but money making that I and my 61,000 friends are engaged in—a business worthy the best energies of the best men and women. I have a free book—a poultry educator—to help tell the story. You need it. Write me.

**WICKSTROM, QUEEN INCUBATOR**  
Box 28, LINCOLN, NEB.

## "MONEY"

Can buy no better  
Hatches more chicks  
Uses less oil  
Fire Proofed  
Automatic  
Prices Low  
**SAFETY HATCH**  
10 year guarantee  
Catalogue Free  
Write for today  
**Clay Center Inc.**  
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**LIFE PRODUCE**  
**SUCCESSFUL INCUBATION**  
**LIFE PRESERVATION**  
**SUCCESSFUL BROODING**  
The only machines that hatch and brood on a Direct Heat System. Sold on a Direct Heat System. Send for FREE Incubator Book and Brooder Book. "Proper Care and Feeding of Small Chickens, Ducks and Turkeys" sent for 10c.  
**DES MOINES INCUBATOR CO., 63 Second St., Des Moines, Iowa**

**SHOEMAKER'S BOOK ON POULTRY**  
and Almanac for 1914 has 224 pages of colored plates of fowls true to life, about chickens, their prices, their uses and remedies. All about incubators and their operation. All about brooders and how to build them. It's a book of chickendom. You need it. Write for it.  
**C. C. SHOEMAKER, Box 599, Des Moines, Iowa**



The successful poultryman must have a system in caring for his flock. Haphazard methods have ruined many a fellow's chances of success. Feed and water regularly, have a regular time for attending to the many duties devolving upon you; in short, have a program and follow it.

Don't crowd the fowls. Crowding produces unsanitary conditions and invites disease, makes the hens unproductive and tends toward unprofitable and unpleasant results. Cut the flock in half if necessary to give ample room. It is a waste of time and money to try and get strong chicks from a pen of cramped and crowded breeders. Don't attempt it.

A great drawback to many new beginners in the fancy poultry business is their timidity. They try to get along with inferior stock as a foundation, fearing to invest in better, and as a consequence find it uphill business producing good birds. Others who succeed in producing good stock greatly handicap themselves by not showing their birds, fearing to buck up against the old fellows. Don't be satisfied with medium grade stuff. Get the best and then don't take a back seat for anyone. You have everything to gain and nothing to lose by showing.

The farmer can produce a pound of chicken just as cheaply as he can a pound of beef, pork or mutton, and it always brings a better price. Why, then, not give this branch of our business more attention? With good laying stock, eggs can be produced at a handsome profit. Instead of a farmer having 30 or 40 hens, he ought to have 200 or 300 or more, as his fancy and the size of his farm permits. If hens are kept in this way in connection with other live stock, farming will be more of a business and the farmer will be better satisfied with the returns from his farm.

#### Fresher and Better Eggs for the People.

The following article in a daily paper under a Washington date line, shows that the authorities are alive to the situation of the egg market:

The active campaign for the improvement of farm eggs in the middle west, undertaken last summer by the bureau of animal industry of the United States Department of Agriculture, is to be continued. This work was preceded by a general survey of the field in the spring of 1908, which showed that an enormous loss was being sustained annually as the result of spoiled and deteriorated eggs. This loss results from the ignorance, carelessness or indifference of the farmer and from the dilatory and unsatisfactory methods of marketing in vogue. The actual money loss is suffered mainly by the farmer, while the loss in quality is borne by the consumer.

The campaign of the last summer had for its ultimate end the improvement of conditions surrounding the handling and marketing of eggs, and consequently the improvement of the quality of the egg itself as it reaches the consumer.

The efforts have so far been directed mainly to education in better methods, cooperation with egg buyers and state authorities and experimentation. The actual work has been done mostly in Kansas by department field men going among the farmers and impressing upon them the necessity of keeping eggs intended for market in a cool, dry place, and of marketing them frequently.

Incidentally, they have given the farmers help whenever possible in the practical management and breeding of poultry and have urged the keeping of pure bred poultry.

The bureau sought and obtained the cooperation of the egg buyers of Kansas and as a result the "loss off" of quality system of buying was brought into use. By this system bad eggs are rejected and only good eggs paid for. The state food authorities also cooperated by prosecuting under existing state laws cases where bad eggs were sold. On account of the material improvement effected in the Kansas eggs the movement has spread to adjacent states and efforts are being made to obtain uniform legislation. It is proposed to continue the work in Kansas the coming summer.

## Big News For INCUBATOR BUYERS

The famous Belle City Incubator won the "Tyco" Cup Contest over machines costing 2 to 5 times as much—making it the Double World's Champion. And the winner raised over 97% of the chicks. ORDER NOW—Get in the champion class of chicken raisers.

### Order Direct From This Advertisement

to get early start. W. S. Reynolds, Asen, Miss., says: "My first Belle City hatch was 76% BETTER THAN the highest priced machine made which stood alongside. I lost nothing by ordering direct from your ad. Count on me for 4 to 8 machines. If others did business as you do there would not be much trouble in the business world." That's my policy. You take no risk. Read remarkable offer below. Then order or send for "HATCHINGFACTS"—FREE. J. V. ROHAN, President Belle City Incubator Company.

**\$7.55 Buys the Best 140-Egg Incubator Ever Made**  
**\$4.85 Buys the Best Brooder**  
 Both Incubator and Brooder, Ordered Together  
 Cost You Only \$11.50—Freight Prepaid

**WHY PAY MORE?** Investigate—send your name and address today, the easiest way, by postal or letter. I tell you the prices right here—and how my machines are made. You can have ninety days' trial on both incubator and brooder—and I'll send all money back if they do not do all I represent.

Be sure to send for my illustrated, free booklet, "Hatching Facts." But, if in a hurry, you are perfectly safe in ordering right now from this ad. Thousands do this way every year. I guarantee to ship all orders sent from this ad on day received—(from warehouse nearest you, or Racine.) No disappointments. Order a Complete 140-Chick Belle City Hatching Outfit. Send only \$11.50 for both Incubator and Brooder—freight prepaid (East of Rockies). You'll surely need the

brooder, too. So make the savings. Satisfaction Guaranteed or money back.

### BELLE CITY WORLD'S CHAMPIONSHIP Incubators and Brooders

140-Chick Belle City Brooder ONLY \$4.85



This I guarantee. Double walls—dead air space all over—copper tank and boiler—hot water heater—best regulator—deep, roomy nursery—strong egg tray—high legs—double door—and everything that's any good on an incubator—all in the Belle City. "Tyco's" thermometer—egg tester—burner and safety lamp included. The Belle City Brooder is the only one having double walls and dead air spaces. I guarantee it to raise more healthy chicks than any other Brooder made. Hot-water top heat—large, roomy, wire runway yard, with platform—metal safety lamp and burner.

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Over 75,000 machines in use—all doing perfect work. The Belle City should be your choice. Send your order now or send a postal card for "Hatching Facts" booklet and full particulars. Don't pay more than my price. No machines, at any price, are better hatching or brooders. Mrs. M. J. Clifton, of Quinlan, Oklahoma, won the World's Championship with her Belle City Incubator by hatching the highest perfect score in Successful Farming's 1910 prize contest of 128 entries—140-egg size—140 eggs set—140 chicks hatched. This was 100% perfect on the full capacity of the Belle City. Many other incubators selling at from 2 to 5 times the low price of the Belle City did not equal or even approach this performance. Thousands of testimonials show you Belle City can do best for you also.

J. V. Rohan, President

Belle City Incubator Company Box 18, Racine, Wisconsin

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HERE WE ARE with the finest incubator ever made—absolutely safe and good for a lifetime, metal enclosed—safe and sure—notice lamp—prices are lower—freight paid—35 per cent better hatches. Hurry up, send your name quick to the man who makes the best incubators and brooders in the world. He will start you right and start you quick to make money with Poultry

Write for my English or German book. EMIL OCHSNER, Box 12, Sutton, Neb.

## 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 Diarrhoea, or bowel trouble, the cause, and tells of a cure. Book absolutely free for the names.

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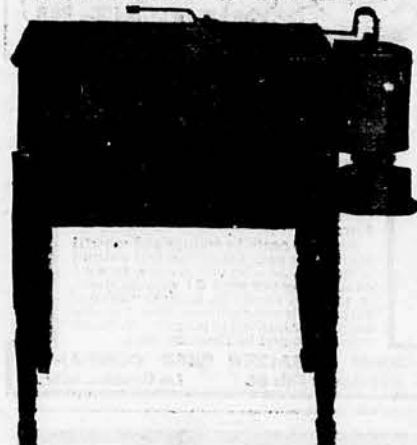


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## THE HEN-FEATHER INCUBATORS & BROODERS.



The latest Incubators and Brooders. Feathers that hover the eggs and chicks like the mother hen.

The best on the market. Write for free catalogue. THE HEN-FEATHER INCUBATOR CO., Dept. Y, Blackwell, Oklahoma.

**140 EGG INCUBATOR and 140 CHICK BROODER** The incubator is both California Red For \$10 wood, 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. Incubator Co., Dept. Y, Blackwell, Okla.

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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 my mating list and see what I have.

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BOX F, BAYNEVILLE, KANSAS.



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## SASKATCHEWAN

### THE GOLDEN

"The Land That Pays for Itself in a Single Season."—Prof. Thomas Shaw.

Want to quit paying rent and have a fine farm of your own? Come to Canada! Want a farm so fertile that the first crop pays for your land? Come to Canada! Want pleasant, congenial work that pays generous rewards? Come to Canada!

Want to live where health, not sickness, is "catching"? Come to Canada! Want a home surrounded by good neighbors, schools, churches and railroads? Come to Canada! Want to get out of a rut, to make a new start, to live where conditions are with you, not against you, want a fair chance to make money—as good a chance as your dad had when Iowa and Illinois were "out West"? Come to Canada!

#### \$20 Farms Grow 40 Bushels of Wheat Per Acre!

To the average man this would seem impossible, but it is done by farmers in the LAST MOUNTAIN VALLEY, in Golden Saskatchewan, Canada; and they don't work nearly so hard as their less fortunate friends who stayed at home! The average crop in this fertile valley is about 30 bushels per acre. The first year's crop clears the land! There are yet thousands of acres in this wonderful valley—as rich as any soil in the world—that have never been put under cultivation. They await but the touch of the plow to bring forth immense harvests of Golden Grain.

#### Golden Saskatchewan

Though provided with ample rainfall, the Last Mountain Valley is a land of almost continuous sunshine, where health abounds—a climate that builds vitality. Pulmonary diseases or epidemics of any kind are unknown here.

#### Live Near a Fine Lake!

Last Mountain Lake—a large, deep, clear body of water, near at hand—is one of the finest fresh water lakes in the world, and the only navigable lake in Saskatchewan. Both freight and passenger steamers ply up and down its shores. It furnishes a world of recreation for young and old—camping, picnicking, boating, fishing, hunting, swimming, skating, etc.

#### Railroads Galore!

You don't need to live "forty miles from nowhere," either—or "next door to civilization." You are "inside" of civilization! Seven great railroads already serve this district. More railroad building is going on here than in any other part of Canada. In 1910 one-third of the Canadian Pacific's construction in Canada was here. The Canadian Northern is now building another road into the heart of the Last Mountain Valley.

#### 150,000 Americans Coming!

Last year 100,000 Americans took up homes in Western Canada. The present year, according to immigration authorities, will see 100,000 more of Uncle Sam's best citizens move across the border. Western Canada will soon be as densely populated as the best agricultural sections of the United States. Land prices are going up every day. Those who buy now get the benefit of the advance.

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We have over 175,000 acres of the finest unbroken wheat land in the world, near towns and on railroads in the Last Mountain Valley. We have a list of land bargains such as were never before known. Our prices are absolutely the lowest and we sell on small, easy payments. No other colonization company can hope to meet these terms and prices, because none can buy land now in such enormous tracts. No matter how large or how small a farm you want, or how little cash capital you have, write us. Don't even think of buying Canada land or any other land until you have looked over these bargains. We will positively save you money. We invite you to compare our bargains with others.

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Come to Golden Saskatchewan, on our "Canada Special," and get the benefit of low rates and a comfortable train. Pullman coaches, other first-class accommodations, and an enjoyable trip. Free refunded if you buy. The sight of these progressive towns and cities and fine farms will inspire anyone to do bigger things, to realize that the money-making opportunities in Saskatchewan today are better than any his father ever had.

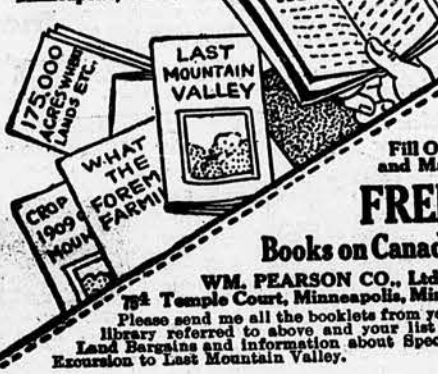


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Everybody likes fine strawberries, and to prove that our new GIANT variety is the largest and strongest grower, as well as the heaviest fruiter, we offer to send you TWO PLANTS (worth 30 cents) absolutely FREE. We have picked 12 quarts of fine berries from a test bed grown from but two GIANT plants set the year before. You can do as well, and at the same time raise the year before. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old, and send all to you at proper planting time in the spring. It will pay you to get acquainted with our "HARDY BLIZZARD BELT" Trees and Plants. Write to-day and we will reserve the plants for you and send you our catalog by next mail. Address

THE GARDNER NURSERY CO., Box 325, Osage, Iowa

#### BRATWBERRY 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

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Write for Prices —  
Geo. T. Fielding & Sons  
Manhattan, Kansas

#### "The Helpful Hen."

The care and handling of chickens is just as much of an occupation and require as much care to be successful as it does to succeed in the raising of horses, cattle or hogs.

Unless you can become interested in chickens, take pleasure in being around and handling them, you will never be successful in that line of work.

On the farm, a hen will lay some eggs during the year without any care, but for profit, we should give her the opportunity to do her best.

Of course there is a difference in the breeds of chickens. Some are bred for size more than for eggs, while others are bred on lines for egg production.

It is not the person who becomes a chicken enthusiast for a short time, giving his flock the best of care a few days, then wonder what is the matter with his chickens that they do not fill the egg basket, that is successful, but the one that follows it up week after week, studying out what way is best to care for the flock and what to feed and how to feed it.

I believe in raising pure bred chickens. Some think that if you cross one breed with another, usually one of the larger breeds with the Leghorn, you will get more eggs than from the larger breed and at the same time have a larger fowl than the Leghorn.

The result of such breeding, unless scientifically carried on, is that you have a flock of all colors and sizes in a short time.

The chickens all originated from one source, and it is through careful breeding we have all the different standard varieties.

The Rhode Island Reds are believed to be a cross of Asiatics, Mediterranean and Games. The Wyandottes are claimed to be a cross of the Dark Brahmas and Silver Spangled Hamburgs, and so on with all the breeds. Some desire pure bred chickens but think the cost too great. Others who have mixed flocks improve them by buying pure blood cocks each year. Of course that is an improvement; but a poor way to ever get a pure flock.

It need not cost a great deal to get pure bloods. It is not necessary to sell off all of your flock and buy a great number. Neither is it necessary to buy a \$10,000 hen. If you are looking for the cheapest way, go to some good, reliable breeder and get two or three settings of eggs. They should not cost you more than from one to three dollars per setting. When hatched, mark, so you can tell them from your other chickens. If you have good success, the next spring you will have enough pullets to lay all the eggs you need for setting.

Ten days before you want to save eggs for setting, pen them with a cock for ten or twelve hens, and you are in the pure blood business.

Of course the cocks should not be related to the hens, but if you took the precaution to buy eggs from two strains of chickens you may have them. If not, buy what you need.

Sell every cock on the place except the ones in the breeding pens and in two or three years you can have just as nice a flock of pure bloods as any one. The idea of keeping enough cocks for two or three hundred hens is a useless one. You can just as well have that many more hens.

As to what breed is best, I do not believe there is any best breed. They all have some good qualities. Select the ones most favorable to your fancy. I would recommend a medium sized fowl.

Among the most popular breeds are the Wyandottes, Orpingtons, Plymouth Rocks, Rhode Island Reds and Langshans.

The Rhode Island Reds are probably a little the most popular at the present time. They are of fair size. The standard weight for the cock is eight and one-half pounds and the hen six and one-half pounds. They are good layers and their eggs are usually good size of medium dark color.

We have proved them to be good winter layers with good care. When dressed, they are plump, with yellow skin and are equal to any other breed for table use.

It is not always the hen that lays the greatest number of eggs in a year that is the most profitable, but the one that lays the most when eggs are the highest. Caring for chickens on high priced eggs, which is always in the winter, is the most difficult. To



# Greatest Of All Berries

PHOTO JULY 1910

This is the Greatest Berry the world has ever known, discovered in the Himalaya Mountains. Its growth and production is simply marvelous. It is perfectly hardy everywhere and grows from 30 to 50 feet in a season and can be used on arbors or trellises of any kind.

The Engraving shows one plant from photo July 1, which is trained to a large trellis loaded with fruit, and continued bearing until October. The fruit is black, almost colorless and the large luscious berries are enormous. It is especially adapted to your mouth. It is unsurpassed for eating, cooked, canned or preserved in any form and the greatest of all berries for all climates. It is the only fruit in the world to grow, is especially for people or any one with limited space, for it can be grown up from the ground like a tree producing from 8 to 10 bushels, growing larger and producing more fruit each year.

We guarantee this the Greatest of all new Fruits and produce facts no one can get away from. Beware of imitations. Giant Himalaya is a family by and highly valued wherever grown. The Himalaya or Plantainberry, from seeds cannot be sold for fruit or seedlings. Our plants are from tested stock. Complete satisfaction guaranteed. Instructions for cultivation with a booklet of light for raising in manure pits free with orders. Long plants 35c each, 3 for 1.00, 6 for 1.50, 12 for 2.75, 25 for 5.00, postpaid.

See Mill Catalogue of Vegetables and Flower Seeds, and have New Plants free with every order.

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"Sunflower Brand" is carefully graded, rigidly tested, thoroughly acclimated seed—the kind that brings big crops. Get our Money Saving Catalogue showing largest stock in the West of high-grade seeds. You can order safely from us and be sure of getting rock bottom prices. We make a specialty of

# 10 Tons Per Acre ALFALFA

It is Kansas grown—proof that it is unequalled as a big cropper. Graded Seed Corn is another specialty of ours. We also handle the latest novelties in vegetable and flower seeds and our catalogue gives you all necessary information about their cultivation. But send for the book and see for yourself. Handy Hot Plate Lifter a special premium. Alfalfa Booklet Free.

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# SEED CORN

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What Farmers Want To Know

The "Pure Seed Man's" New Book is very different from the many other seed books. 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 painstaking effort, the result is interesting reading. In this particular book one reads living, breathing pages, the usual stereotyped technical terms are laid aside, and the heart to heart of a man who talks and writes of his business, his long experience and his general, in a way that makes you feel and see that profit in business is the only consideration a man may have. There are many things in the business that are important for every farmer to know. Many of these things do show on the outside and another is it possible to learn them. Many of these important things are put into understandable English in the Pure Seed Man's book. To get a free copy of it write Shenandoah Pure Seed Co., 303 Lowell Shenandoah, Iowa, and mention this when writing.

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Young's Yellow Dent

Get Drouth Resister on earth. Yield season 35 bushels per acre. No rain May 15 till September 1. Price \$2.00 bushel. In lots of five bushels or more, per bushel.

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# 1,000 SEEDS 10c.

We want you to try our Prize Seeds this year. We have selected 50 best varieties and put up 1000 seeds especially to grow Prize Vegetables and flowers. They will produce more than 100 worth of seeds and 10 bushels of flowers.

Broccoli	100	10c.
Cauliflower	100	10c.
Corn	100	10c.
Cucumber	100	10c.
Tomato	100	10c.
Turnip	100	10c.
Flowers	100	10c.

Ask for Seed Book, and 500 New Seed Book with a list of seeds good for 100 selections, postpaid, 10c. NEW SEED FARM, Box 122, Syracuse, N. Y.

succeed, you should have clean, dry, warm hen houses. There are various ideas as to how they should be built. I will say, it matters not so much how they are built as it does how you care for the chickens.

Drafts should be guarded against. The hens should not be allowed to run in the snow or cold mud. Nothing will stop their laying quicker.

In the morning for the first feed, give them wheat bran mixed with warm sweet milk, or scalded with water. The milk may be fed separately, warm and always sweet.

Do not feed too much milk. What they will drink in an hour is enough. Give all the pure water they will drink in clean vessels or troughs. It is better to warm it a little in cold weather, as it then takes more to satisfy them. We know an egg is composed mostly of water.

Eat corn heated in the oven until partly parched is good for morning feed. At noon give a mixture of grain such as millet seed, oats and Kafir corn or wheat scattered in some kind of hay or straw so they can work for it.

The greater the variety of feed the better. Don't feed so much that they will be inactive. In the evening feed them well. Eat corn is good for this feed.

Do not feed too much Kafir corn, especially if it has smut in it, or if it has been heated.

Keep oyster shell before them all the time. It doesn't take very much. Gravel or grit is essential too.

Alfalfa or clover hay should be kept within their runs.

With the feed mentioned, properly fed, and the chickens rightly cared for, there will not be much trouble in getting eggs in winter.

The most important part of all is the gathering of the eggs. Never use nest eggs. They are a nuisance. Always gather all the eggs every day. If there is any doubt about a nest of eggs not being gathered the day before, never put them in for market. Break and use the good ones for the home. Never sell a dirty or stained egg. It takes a little longer to wash them but it will pay.

Have your eggs of uniform size as nearly as you can. Leave out any odd shaped eggs, the extra large and the extra small ones.

Uniformity of color is another essential worth mentioning. This in itself is in favor of pure bloods, as any one breed should lay eggs of the same color.

Never hold eggs for higher prices. Sell them when you know they are absolutely fresh, and back them up with your guarantee.

If your dealer can rely on the eggs you furnish him, and is doing you justice, your eggs will be sought after, and in a short time will sell at a premium.—W. M. Hixson, before Berryton, Kan., Farmers' Institute.

# SEED POTATOES

Fancy Red River Early Ohio, per bu. \$1.10  
Choice Red River Early Ohio, per bu. 1.00  
Kaw Valley Early Ohio, per bu. 1.00  
Best Grade Early Six Weeks, per bu. 1.10  
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Custom Seed.  
Red, White or Yellow, per bu. \$1.50

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Best grade, lowest prices. Everything in Seeds.

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# Alfalfa Growers Attention:

Alfalfa Stack Covers pay for themselves twice over in one season. We make GOOD covers and sell direct for manufacturer's wholesale prices. All sizes for all stacks. Covers over 7 ft. on sides; one ft. center on ends. We run seams across stacks, not along sides. This makes strongest, no-leak cover; 3, 10 and 12 ounce goods used. Save 32 per cent protecting hay stacks against rain. Write us sizes you want. We will send cloth samples with prices. Covers shipped same day we get orders.

BEATRICE TENT & AWNING CO.,  
Box 607, Beatrice, Neb

# FREE TO CABBAGE GROWERS.

A New and Sure Remedy for Green Worms to all who send 10 cents for a trial pkg new "Early Snowball" Cabbage. TIL- LINGHAST, THE SEEDSMAN, Scanton, Pa.

SPECIAL PRICES on Scotch Pine, the hardy tree for Kansas; 10 2-3 ft. trees for only \$1.75. All other evergreens at a very low rate. Write for catalogue. Evergreen Nursery Co., Sturgeon Bay, Wis.



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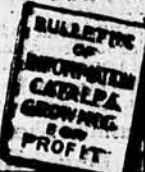
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# 10 Cherry Trees \$1.

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JOHN BEROLD

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# SEED CORN

Mildred Yellow Dent outyielded five other standard varieties for us last year; a growth resister; we will plant no other this year. Good seed for sale. Ask for prices.

THE DEMING RANCH,  
Oswego, Kansas.

# SEED CORN

Pure Bred Johnson Co. White. I won third at the National Corn Show in the Kansas Class. Write for sample and prices.

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Orchard Hill Farm, Holton, Kansas.



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These shoes are built exceedingly strong. The leather is tough and the soles are selected from the best wear-resisting hides. They are the only school shoes made with two layers of leather over the tip.

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**The Missouri mule!—another "mint" for the Ozark farmer.**

The Ozark farmer has no "kick-coming" for the Missouri mule. On the contrary, he has a mighty wholesome respect for an animal that can *bring him so much profit*. Here's the way the mule proposition sizes up in the Ozarks:

You wean your mule about Oct. 1st. It does well on pasture and stalks up to January. Then it needs about 3 or 4 ears of corn a day until March, and several hundred lbs. of hay (unless one has fodder from fall cutting). After April it is turned to pasture again, and it takes mighty little grass. This runs it to the following January when it is coming two years old and can be used a little to break it in. January to March of this year it needs 6 to 8 ears of corn a day, to get the best results. After April, it is worth more than its feed for work, and in the fall you are ready to market. The *lowest price* you need figure on is about \$200—\$225 will come nearer for a really good mule. Your total cost, allowing 8% interest on the mare, and including the mare's as well as the colt's feed up to time of sale, will not run over \$50 or so,

leaving you a *net profit* of \$150 to \$175, or about 100% per annum on a single mule.

"But how about possible loss from sickness?" you ask. Too little to figure in. That's one of the *big advantages* that the Ozarks offer you. With perfect drainage, and fine pure spring water; with green pasture several months longer than in other sections and the right soil to raise all kinds of forage crops, the Ozark farmer gets a *bigger margin* of profit on most anything he tackles than farmers in other sections. And then, too, his land *costs so little*. Right now \$10 to \$25 per acre will buy good land in the Ozarks.

Sounds good?—it is good. More and more farmers are finding out that a small farm in the Ozarks is a better money-maker than a big one elsewhere.



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Use it like lemon and vanilla. A delicious syrup is made by dissolving white sugar in water and adding Mapleine. Grocers sell Mapleine; if not, send 35c for 2oz. bottle and recipe book. Write to Dept. CRESCENT MFG. CO., Seattle, Wash.

## HOME CIRCLE

**A New Leaf.**  
He came to my desk with a quivering lip:  
"The lesson was done;  
"Dear teacher, I want a new leaf," he said.  
"I have spoiled this one."  
I took the leaf all stained and blotted,  
And gave him a new one, all unspotted.  
And into his sad eyes smiled:  
"Do better now, my child."  
I went to the throne with a quivering lip:  
The old year was done;  
"Dear Father, hast Thou a new leaf for me?  
I have spoiled this one."  
He took the leaf, so stained and blotted  
And gave me a new one, all unspotted.  
And into my sad heart smiled:  
"Do better now, my child."  
—Unknown.

King Edward was very fond of his eldest grandson. When the little prince was eleven his grandfather asked him what he was studying in history, and was told: "Oh, all about Perkin Warbeck." The king asked, "Who was Perkin Warbeck?" and the lad replied, "He pretended that he was the son of a king. But he wasn't; he was the son of respectable parents."—Tit-Bits.

### 8873. A Simple Frock for Mother's Girl.

Mothers will welcome this natty, comfortable little model, that lends itself readily to any of the dress goods now in vogue, and is also suitable for wash fabrics. The closing is at the side and may be made with a fly or with buttons and buttonholes. The "French" waist effect is especially becoming to growing girls.



Brown henrietta, with trimming of red or Alice blue moire or a simple decoration of white or brown braid would make a pretty frock. The pattern is cut in 4 sizes: 4, 6, 8, 10 years. It requires 3 1/2 yards of 27 inch material for the 8 year size. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

### 1652. Shirtwaist Set.

There is nothing so much admired as a daintily hand embroidered waist and the accompanying illustration portrays an exquisitely pretty and



1652

simple design to be executed in French or eyelet embroidery with lace insertions. Stamped on 2 1/2 yards linen \$1.75; stamped on 2 1/2 yards lawn \$1; perforated pattern 25 cents; transfer pattern 10 cents.

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"Now, Johnny," said the Sunday school teacher, "can you tell me what happened to Samson after Delilah cut his hair?" "I guess he lost his job on the football team," answered Johnny.—Chicago News.

**The British Crisis—Landlords and People.**

Half of all the land in England is owned by 2,000 persons, and more than half of all the 56,000,000 acres in England, Wales, Scotland and Ireland is owned by 5,000 persons, says Frederick J. Haskin, in "Union and Adversity." Two-thirds of all the land in the entire kingdom is owned by fewer than 10,000 persons. Of the population of 45,000,000, only 61,000 farmers cultivate land which they own. Twenty-seven dukes own more than 5,000,000 acres, the Duke of Sutherland alone possessing 1,350,000 acres. The dukes own approximately one-tenth of all the land in Great Britain. The farmers who own their own land are few indeed and of that number, fewer than 15,000 own more than fifty acres, the great majority possessing holdings of less than five acres in extent. And, according to British government statistics, one-third of the people of Great Britain live constantly on the verge of starvation.

London papers state that in the outskirts of that city there is to be found one of the most unique farms imaginable—a farm exclusively devoted to the raising of butterflies. If one visits this farm in the early spring he may see forty to fifty thousand caterpillars and pupae and in the summer a corresponding number of intensely brilliant and beautiful butterflies flitting about in the large cages hanging in the trees, or in the smaller portable cages, which are carried from tree to tree as desired. This farm, which contains about one acre of land, has large glass houses filled with beautiful flowers upon which the caterpillars and butterflies may move about as they please. In Europe there are several butterfly farms, the product of which is a ready sale to entomologists.—To-day's Magazine.

**Some of the Largest Things.**  
The tallest monument is the Washington obelisk, 555 feet high; but the largest obelisk is in Karnak, Egypt, being 106 feet high. The highest chimney, measuring 474 feet, is in Glasgow. The largest aqueduct in use is the Croton, of New York, which is thirty-eight miles long, but the longest ever built is in Peru, 360 miles in length.

The deepest coal mine is near Lamare, Belgium, 3,500 feet deep; the deepest dock is a Cardiff, Wales; and the strongest electric light is at thedney lighthouse, Australia; while the largest lighthouse is at Cape Henry, Virginia, being 165 feet high and 8 feet thick. The greatest bank is the Bank of England, in London; the oldest college is University College, Oxford, founded in 1050; the greatest library, the National, in Paris, containing nearly three million volumes. The largest theater is the Grand Opera House, covering three acres; the largest bronze statue, that of Peter the Great, at St. Petersburg, weighing 1,100 tons. The biggest statue is in Japan, 44 feet high; the largest college is in Cairo, with 10,000 students and 310 teachers. Kansas has the honor of being the largest city.

The most costly book in the world is the Hebrew Bible, owned by the German Government, which a few years ago refused the Popes' offer of \$125,000 for it. The most costly medicine now sold is metallic gallium, which was sold for \$150,000 a pound; but it is now the priceless gem of the medical world, selling for more than that price an ounce. A man would have to be exceedingly ill before sending for such a prescription, though he were a millionaire. Though orchids frequently bring the highest price for a single specimen was given for a tulip in Amsterdam by a enthusiast, who paid \$10,000 for it. The Rothschilds own the most costly cigars that are made—the Henry Clay Sobranos, which cost \$1.50 each. These are packed in gold leaf and packed in cedarwood cabinets.—To-day's Magazine.

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15,000 bolts (the 110 quality). Per yard, 70c at manufacturer's prices. 12 1/2-cent value for, per yard.....74c
- Black Taffeta Silk**  
Full yard wide, only.....85c
- Gingham**  
Solid weave, fine quality. 10 yds. for 49c
- Poplin**  
The kind retail stores sell for 25 cents. Our sale price, per yard.....12 1/2c
- Dotted Swiss**  
Fine quality—price for 60 days only. Per yard.....10c
- Panama Cloth**  
36-inch all worsted Panama cloth, only per yard.....38c
- Famous Behrens' Pongee Silk**  
10 colors, only per yard.....38c
- Venetian Spot Silk**  
Exactly the same quality that regularly retails at 45 cents a yard. Our sale price only.....23c
- Sheeting**  
Unbleached, 66 in. wide, only per yd. 19c  
Bleached, 70 in. wide. Sale price, per yard.....21c
- Japonica Silk**  
In 14 colors at half the regular price. Only, per yard.....25c
- Striped Poplin**  
Eleven colors. Regular 25-cent value. Our sale price only, per yard.....12 1/2c
- Ladies' Handkerchiefs**  
Hemstitched extra fine cambric. This is a handkerchief that sells everywhere for 10 cents apiece. Our sale price only, per dozen.....37c  
Ladies' colored border hemstitched handkerchiefs, per dozen only.....28c
- Table Linen**  
Heavy German Diced Damask, per yd. 39c  
Heavy Cream All-Linen Damask, per yd. 48c  
Bleached All-Linen Satin Damask, per yd. 41c
- Table Cloths**  
Hemmed German Table Cloths. Size, 58x75 inches. Each.....\$1.19  
Silver Bleached Table Cloths. Size, 58x62 inches. Each.....\$1.15  
Bleached Pure Linen. Size, 70x70 inches. Each.....\$1.69
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Table Cloth and six Napkins. Cloth size 62x80 inches. Napkins 17x17 inches. Price per set.....\$2.98
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Hemstitched and open work. Size 30x30 inches. Only, per pair.....60c
- Piano Scarf**  
Beautiful white renaissance lace. Size 27x64 inches. Only.....\$2.98
- Towels**  
70,000 pieces of good Bleached Linen Orash Toweling. Worth double our price. For this sale only, per yard.....8c  
Fringed Damask Towels. Unmatchable value. 17x38 inches, only.....15c  
White Hemstitched Huckaback, 20x28 in. only.....22c  
Hemmed Pure Linen Huckaback, 20x40 inches, only.....35c  
Fine Satin Damask Towel, hemstitched. Handsome flowered designs, 21x41 inches, only.....43c
- Bed Spreads**  
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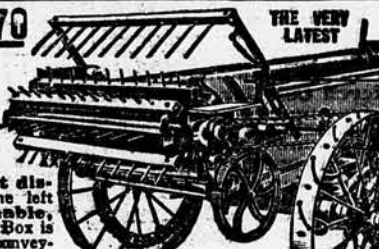
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From all over the west come reports of the hardness and successful growth of *Graminis* alfalfa. In the mountain states particularly and in North Dakota this variety seems to be the best that has yet been discovered for prolificacy and resistance to climatic conditions.

## Test Cattle Feeds to Determine Their Value.

Experimental work on the value of chemically balanced rations for cattle derived from wheat, oats, corn and a mixture of these three, which has been in progress for three years, is opening an interesting field of study in feeds and feeding, according to the annual report of Dean H. L. Russell of the University of Wisconsin Agricultural Experiment Station.

The physical condition of different groups of animals reared from calf-hood on a ration balanced according to the regularly set chemical standards, has varied widely.

Cattle fed on the products of wheat alone have had low vitality, low milk production and weak, undersized calves. Those fed on corn and its products have continued thrifty and have given large, strong calves. Those fed on oats have been more like the corn fed cattle, and those fed on equal parts of corn, wheat and oats were of low vitality like the wheat fed animals.

The causes of these different effects of feed have not yet been discovered, but these experiments indicate that there is a value of one ration over another irrespective of the balance and supply of energy, as shown by the chemical analysis.

## Cow-Peas for Hogs and Sheep.

I would like to know more about cow-peas and whether it is practical to plant them at the time corn is laid by. I want them for hog and sheep pasture in the fall.—**J. G. McLain,** Wellsville, Kan.

Cow-peas rank high both as a feed for live stock and as a soil enricher. They can be planted when the corn is laid by and will make splendid feed for hogs and sheep. Such a method would be of benefit to the

soil, to the pigs and sheep and prove to be about the most efficient method of clearing a field of weeds.

Soy beans may be handled in same manner and with perhaps better results. In either case the is heavy and profitable.

The Experiment Station at Manhattan, Kan. has published a bulletin on cow-peas and soy beans which contains full and valuable information. Address Director Ed. H. Wells, Manhattan, Kan., for a free copy.

## Holstein Cows Wanted.

A young farmer who has made a nice little "start" in breeding pure bred hogs come into the editor's office the other day to inquire where he could buy ten head of Holstein cows. He stated that plenty of animals had been offered him but would rather take a smaller number and have them registered. By buying pure bred animals as a foundation he is of the opinion that he can make of his herd pretty much what he pleases. In other words, instead of paying big money for heifers and reputation of the breeder he would buy the pure bred heifers and make the reputation himself. By carrying out his plans and starting with 10 heifers and a good bull he could have a herd in a comparatively short time. Whether a herd is good or bad depends on the kind of animals selected and the care he gives them. Of course the shorter way would be to use some A. R. O. cattle but would cost more money and would deprive him of at least a part of the pleasure to be derived from the building of a reputation. That is the way he feels about it and he is certainly right in believing that any method which one takes pleasure in is doubly remunerative.

# You Can Save Your Thresh Bill

**YOU** are interested in a thresher which will save all of your grain and waste none of your time. In doing this it will put the amount of your thresh bill into your pocket. You don't want your money thrown into a straw pile. There is one thresher which will save all your grain and waste none of your time.

It uses the only correct method for separating the grain from the straw. It is the only machine that does. It beats the grain out just as you would do by hand with a pitchfork.

All other kinds depend upon the grain dropping out. The Red River Special is the only one which beats it out. You should insist upon your threshing being done by a Red River Special.

Its Big Cylinder throws the straw, chaff and grain against the "Man Behind the Gun". Taking out 95 per cent of the grain right there.

The grain goes through, the straw goes over. The separating shakers beat out the remaining grain. All other threshers try to run the straw out of the machine fast and much grain goes out with it.

The Red River Special beats it all out. Hire a Red River Special this year and save your thresh bill. Then your straw pile will not be like this one.

## To Whom it May Concern:

I, J. Knudson, farmer, of McHenry County, North Dakota, do depose and say that during the summer of 1908 I bought of Nichols & Shepard Company a threshing outfit, consisting of one 20-horse power double cylinder traction engine and one 32x52 Red River Special separator with wind stacker, self-feeder and weigher attached.

That on or about August 23, 1908, I started this outfit near a stack of old straw that had been threshed in 1907 by a separator, and to stretch the belts on the new machine I caused a small load of old straw from the stack in question to be run through the new machine, and was surprised to get over sixteen bushels of oats from this load of straw.

I afterward threshed out the balance of this stack and got 347 bushels of grain.

(Signed) **JAMES KNUDSON.**  
Subscribed and sworn to before me, a Notary Public, in and for McHenry County, North Dakota, this 6th day of February, 1909.  
**J. EDGAR WAGAR,** Notary Public.  
(Seal)

Get your threshing done by the machine that beats the grain out like you would with a pitchfork.

You could not separate with a fork without beating the grain out. You must beat it out. The Red River Special is the only thresher which does it. Insist upon a Red River Special doing your threshing. It Will Save Your Thresh Bill.

## Nichols & Shepard Co., Battle Creek, Mich.

Builders of Threshing Machinery and Engines.



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Beagle Ring. Smallest Ever Offered. Or any Initial engraved Free. Belled Gold. Warranted 5 years. No for either or 15c for both.

Send Size. **VOKES Bg. Co. 3447 Wilson Ave., Cincinnati, O.**

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We will also correct your exercises on this, free. You will find it interesting, simple—delightful as a puzzle. The study of Shorthand is an education in itself. As mental discipline it equals the study of any language, of any other study in high school or college curriculum.

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Address **J. H. WINTERMUTE, Blockton, Iowa.**

"The seed is half the crop." Is this true? At least it has a powerful influence upon the crop, and a little care in the choice of good seed will pay.

It is difficult to understand why a farmer will content himself with such poor seed as will crop only a half or three-quarters of his ground and this of doubtful quality. Care of seed would insure a full stand and this means a better chance for a full crop.

Alfalfa is a splendid crop and will make good almost any claims its friends make for it but this should not cause one to lose sight of our old standby, red clover. In systems of crop rotation, which must be practiced more and more in this country, red clover is readily adaptable and has some qualities which especially recommend it. It is good stuff.

A correspondent states that last season he frequently saw fields that were supposed to be planted to broom corn but in which were growing both standard and dwarf varieties besides standard and dwarf milo maize, Kafir corn and sorghum. The owner did not plant good seed and could not be expected to get a paying crop from such a mixture.

The seed grain investigation provided for by the legislature is of vastly more importance than may at first appear. The very general practice of selecting seeds from the crib or bin without special care does much to retard the work of seed breeding and this act of the legislature will make it possible to improve both yield and quality more than can be done in any other way because it will compel uniformity of action all over the state.

I have 5 acres of sandy land that was in corn last year, that I wish to sow to grass for a permanent pasture. What kind of grasses should I sow? Should I plow this land or how should I manage to get the best results? Where can I get grass seed?—C. A. Smith, Scandia, Kan.

Sow Bromus inermis and alfalfa or Alsike clover, for pasture, seeding about 12 pounds of grass to 6 pounds of clover or alfalfa seed per acre on the sandy land which you describe. Would advise to prepare the seed-bed by disking and harrowing and sow early in the spring as the soil can be put in favorable condition. If this land is weedy, there may be danger of weeds smothering the grass and alfalfa, hence the earlier the seeding the better.

Another plan which I propose is that you plow this land in the spring after the weeds start, and disk and harrow it at intervals during the summer and seed it to alfalfa and Bromus inermis early in the fall, about the last week in August. Fall seeding in this way in well prepared soil is almost sure to be successful and early fall seeding may produce as much hay the next season as may be secured from spring seeding, especially if the alfalfa has to contest with a thick growth of weeds during its first season's growth. However, under favorable conditions I would advise the early spring seeding after disking and harrowing the corn stalk land.—A. M. TenEyck.

# Farmers-Feeders and Dairymen

## Read What a Farmer Says:

"Silos are all right. I only wish that I had one more to feed this winter. I am feeding 88 sheep, 36 steers, 2 years old; 24 milk cows, 10 dry cows and 18 spring calves, 16 winter calves, 96 head of stockers one year old and past; also my horses, 16.

"I let them have some ensilage; they would eat enough to kill them if I should give them a chance to; besides my hogs. I am feeding 304 head of live stock ensilage and that is the stuff that keeps stock in condition. Ensilage is all right."

**F. H. CHILDS, Masonville, Iowa.**

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I want to get in touch with the man who has made up his mind to buy a silo now. I want to hear from this man and from some of his neighbors who are ready to settle the silo question in the near future.

My special proposition will save you more money than you can anywhere else. My silo has more practical features than all other silos put together.

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## Champion Silo

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My factory is right here in the West—practically right at your back door. That's another big saving. The short haul means low freight charges and prompt shipments. The Champion is built particularly to meet the requirements of the western farmer and is sold from factory direct to you.

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A new idea. My doors are held by a double latch, one on each side of the door. When locked these latches clamp together in the middle, forming an absolutely rigid ladder rung which will support three times the weight of the heaviest man.

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Winners at Topeka, Kansas City and Leavenworth. Still have a few choice chicks; pullets on hand. Write for prices and mating list.

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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.

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## Smith's Famous Black Langshans

Eggs from four pens of farm raised birds. Also a few good cockerels. Write for circular and prices.

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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.

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

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Barred Rocks, S. C. and R. C. R. I. Reds, S. C. White Leghorns and Pit Games of the highest quality. We have the 100% egg hens. We get eggs, lots of them, that is what we breed for. We have excellent color. You can do no better by buying elsewhere. Stock and eggs at all times. Send for our catalog, it tells you all about their excellent quality.

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4 PENS FARM RAISED BLACK LANGSHANS. W. A. Smith, R. 8, Pittsburg, Kan.

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KELLERSTRASS WHITE ORPINGTONS—Eggs \$3 for 15. Free circular. Phillips Poultry Farm, R. 6, De Soto, Kan.

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WHITE ROCKS, FISHER STRAIN, EGGS \$1.50 per 15; excellent layers. L. B. Dobbs, Fontana, Kan.

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COLUMBIAN WYANDOTTES; EGGS from prize winners; reasonable. Write me. G. A. Temple Lexington, Neb.

FOR SALE—S. LACED WYANDOTTE cockerels; also fine Mammoth Bronze turkeys. Len Essex, Rockford, Iowa.

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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.

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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.

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BUFF WYANDOTTES—EGGS \$1.50 TO \$3 per 15; booking orders for baby chicks at 15c to 25c each. All stock have splendid laying records and breeding pens contain only high scoring birds. First pen headed by bird scoring 94½. A few good pullets at \$1 each. G. C. Wheeler, Manhattan, Kan.

IDEAL WHITE WYANDOTTES—THE great egg layers, large size and vigorous; the IDEAL farmers' fowl; they will improve your flock, increase you egg production. Eggs at the reasonable price of \$1 per setting, \$5 per 100. C. O. Parsons, Ideal Stock Farm, Clearwater, Kan.

BUFF WYANDOTTES AND WHITE Rocks. L. A. Whitmore, Beaver Dam, Wis.

BUFF WYANDOTTE BREEDING STOCK for sale. W. K. Heatn, Larned, Kan.

SILVER WYANDOTTES FOR SALE; AS good as the best; eggs \$2 per setting; incubator eggs, \$5 per 100. M. B. Caldwell, Broughton, Kan.

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BLACK LANGSHAN EGGS \$1.50 PER 15. H. C. Cohoe, R. 2, Buffalo, Kan.

KLUMMIRE'S IDEAL BLACK LANGSHANS; winners at Topeka, Horton and Leavenworth shows; eggs from winning stock. Write for prices. George Klum-mire, Holton, Kan.

BLACK LANGSHAN CHICKS.—PRICES reasonable; eggs, \$1 for 15; \$3 for 50; baby chicks 15c each. W. S. L. Davis, Pleasant View Yards, Nickerson, Kan.

CONYERS' BLACK LANGSHANS HAVE proven themselves the best in the Southeast; Kansas' Great Layers. A few choice chicks and pullets still on hand. Write for prices on eggs and stock.

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TENNEHOLM BLACK LANGSHANS. High scoring stock; none better bred; large, correct form and good color; have been breeding them 20 years. Eggs \$1.50 for 15.

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HAYNES' LONGVIEW FARM STRAIN of Black Langshans; prize winners at Topeka, Wichita, Leavenworth; all pens are winners; hatch your own winners. One grand special pen \$10 per 15; four grand pens \$2.50 for 15; range \$1.25 per 15. Best matings in America. Catalogue free. Mrs. M. F. Haynes, Grantville, Kan.

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THOROUGHbred ROSE COMB BROWN Leghorn eggs 16, \$1; 25, \$1.50; 100, \$4. Frank Seaman, Cedarvale, Kan.

PRIZE WINNING ROSE COMB BROWN Leghorns for sale; egg circular free. Write your wants Mrs. John Holzhay, Bendena, Kan.

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.

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.

GALVA POULTRY YARDS—R. C. W. Leghorns and White Wyandotte hens and cockerels for sale; eggs by the setting or hundred. John Ditch, Prop., Galva, Kan.

MUCH SHOWN—NEVER DEFEATED. S. C. White Leghorns, White H. turkeys, Indian Runner ducks. Males and eggs for sale.

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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, 601 E. First street, Newton, Kan.

S. C. BROWN LEGHORNS—HIGH QUALITY utility flock; excellent all-year-around layers. Don't fail to order enough to fill your incubator. Eggs \$1.25 per 15; \$5 per 100. M. E. Wilson, 17th and Hydraulic ave., Wichita, Kan.

S. C. R. C. BROWN LEGHORN EGGS—Fine laying strain \$4 per 100. S. C. White Leghorn eggs from my 200 egg strain and score 92½ to 94; eggs \$4 per 100. Plainview Poultry Farm, Lebo, Kan.

EGGS FROM LAYING STRAIN R. C. B. Leghorns 15 per \$1; 100 per \$5. Mrs. J. E. Wright, Wilmore, Kan.

FREE RANGE SINGLE COMB BROWN Leghorn eggs \$1 for 15; \$1.50 for 30 or \$4 a hundred. Clarence Wilkinson, Hawins, Chautaukus Co., Kansas.

EGGS—S. C. WHITE LEGHORNS; BRED for laying; choice eggs for hatching \$1.25 per 15, \$7 per 100; quick delivery. Model Poultry Plant, 13th and 8 Uni. Place, Lincoln, Neb.

S. C. W. LEGHORN COCKERELS \$1.50 to \$3; eggs \$1 per setting, \$5 per 100. Indian Runner ducks \$3; drakes \$1.50 to \$5; eggs \$1.50 per setting; all from prize winning birds. Elmore Fruit and Poultry Farm, Centralia, Kan.

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# Kenple & Barnett's Big Dispersion Sale of Percheron Stallions and Mares

at the Mitchell County Fair Grounds, Beloit, Kansas

## THURSDAY, MARCH 30th, 1911

The dispersion of this well and favorably known herd of Percheron horses has but recently been decided upon. Everything is registered or eligible and every animal in the herd goes in this sale. 35 head of stallions and mares consisting of 25 mares and fillies and 10 stallions. The stallion division consists of four tried stallions including the four times sweepstakes Algarve and three two year olds and three yearlings; the three two year olds and one of the yearlings was sired by Algarve. The mare division consists of 12 mares from four to eight years old that do the farm work, seven two years olds, five of which are imported, four three year old mares, two of which are imported, three four year old mares, of which is imported. All mares of breeding age have been bred, most of them to Algarve.

The attraction of this sale is Algarve, the sweepstakes stallion, five years old and his eight sons and daughters.

### WINNINGS OF 1910 AT TOPEKA, 16 HEAD EXHIBITED

9 firsts, 8 seconds, 3 thirds and 4 gold medals awarded by the Percheron Society of America.

At Beloit, Mitchell County, 8 firsts, 4 seconds, 4 gold medals and 2 silver medals and 2 cups awarded by the Percheron Society of America.

At Concordia, 9 firsts and 2 seconds.

Note.—On April 4 we will sell at auction 180 acres of river bottom land, good improvements, 100 acres of alfalfa. This farm is but three blocks from Glen Elder and will be sold in tracts of from 1 to 12 acres. A splendid proposition. Also all our new farm machinery, feed, household goods. One of the very best farms on the Solomon Valley. Catalogs ready now

## KEPPLE & BARNETT

GLEN ELDER, KANSAS

Fieldman, J. R. Johnson

## HARTER'S FARMERS AND BREEDERS BRED SOW SALE OF BIG POLAND CHINAS

AT FARM, NEAR BLAINE AND FOSTORIA, KANSAS

### WEDNESDAY, MARCH 29th, 1911

I MADE MY ANNUAL BRED SOW SALE ON FEB. 16, SELLING ABOUT 40 HEAD.

But I still have about 35 HEAD more bred sows than I can possibly care for and will sell them on the above date. They are bred exactly like the ones sold at my February sale and bred to the same boars. They are just as good but I don't expect as much for them. They are for the most part daughters of my great breeding boars, Mogul's Monarch and Captain Hutch. Their dams carrying the blood of Expansion, Silver Chief, Prince Youtell, etc. The offering is bred to the two boars mentioned and my young boar, Blain's Sufficient. There will be four daughters of Defender, and one by Colossus, a good useful lot throughout and offered in nice breeding condition. Buyers from a distance will find free entertainment at Blain and Fostoria. Free transportation from both places. Write at once for catalog. Will also sell 5 choice summer boars.

## J. H. Harter, Westmoreland, Kansas

AUCTIONEERS—JAS. T. McCULLOCH AND W. H. TROSPER.

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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:

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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.

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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.

Geo. Robertson, Manager, Lawrence, Kans.



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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-opening prices just now. Barns only four blocks from A. T. & S. F. depot.  
EMPORIA, KAN. EASY TO GET THERE.



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S. C. BUFF ORPINGTONS

Eggs for hatching. My very best, \$10 for 15; from pen 5, \$5 for 15; pen 3, \$3 for 15; from my utility stock, \$1 for 15 and \$5 for 100. I guarantee you a reasonable hatch. All eggs from pen mottled replaced free in exchange for fertile ones on 10th incubation day. Utility eggs replaced for half price. 1910-11 show winnings by my stock: First at Topeka. At Severance, Kan., 1st 2d and 3d on cks. and pullets, 1st and 2d on pen. At Atchison, 2d and 3d pullet; 3d cks. 3d pen. At Leavenworth, 1st 2d and 3d on pullet; 1st on cks.; 1st on pen. At Horton, 1st pullet; 2d pen. I have the goods to deliver and will satisfy every fair minded buyer. Write me at once to book your orders and give shipping date wanted.

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BUFF ORPINGTON COCKERELS \$1.50 each. Harry Cure, Atchison, Kan.

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BARRED ROCK EGGS, FARM RANGE, 75c per 15; \$1.75 per 50; \$3.50 per 100. Mrs. Wm. Bumphrey, Cornslog, Kan.

EGGS FROM A VIGOROUS FARM FLOCK of Barred Rocks at \$1 per 15, \$2.50 per 45, \$5 per 100. Geo. Baird, Formosa, Kan.

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RHODE ISLAND REDS

EGGS FROM GOOD LAYING R. C. REDS; good size and color, 30 for \$1.25; \$3.50 per 100. Chas. A. Smedley, Agra, Kan.

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100 KINDS EGGS, POULTRY, FIBERONS, pheasants, collies, Jerseys registered, Friesian, Alberta land, cent shares. Paul's Pheasantry, Kahoka, Mo.

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JACK FOR SALE—WEIGHS 850 LBS.; 14 1/2 hands; 8 years old; good breeder; good bone, head and ear; maily color; priced to sell; never abused; right every way; owned him 5 years. Ben Meyer, R. 8, Olathe, Kan.

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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—REGISTERED PERCHERON stallion; ton horse; 8 years old. One German Coach stallion, weight 1600. One large jack and a good one. All sold sound and guaranteed right. This ad only appears once. Bridges & Blackwood, Moline, Kan.

CATTLE.

POLLED JERSEYS—CHAS. S. HATFIELD, Springfield, Ohio.

FOR SALE—DR. SHIRLEY, FORMERLY of Hiawatha, Kan., says he has one of those fine bull calves left; it was dropped Feb. 7, 1911; is a beauty; out of a cow that will make 500 lbs. of butter any year; the sire's dam has a butter record of 22 lbs. and 10 oz. in seven days; solid color. I will price very low if taken soon. Dr. W. M. Shirley, 1734 Welton St., Denver, Colo.

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POLAND CHINA BRED GILTS; REGISTERED; farmers' prices. John Ziller, Hiawatha, Kan.

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BEEES—STRONG COLONIES IN TEN-frame hives \$4.50. Special prices on quantities. O. A. Keene, Topeka, Kan.

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FOR SALE—100 TONS ALFALFA HAY \$11 per ton f. o. b. cars at Valley Center, Kan. S. I. Perin.

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USE METAL WIRE FENCE SIGNS. They get results. Write Ottawa Metal Sign Co., Ottawa, Kan.

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**I HAVE THE LARGEST JACKS IN THE WORLD** in both imported and home bred. I have sold over 700 jacks from my farm here and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for first class jacks. Let me show you before you buy.

**CEDAR RAPIDS JACK FARM,**  
Cedar Rapids, Iowa.



**KENTUCKY MAMMOTH JACKS.**  
We have the biggest and best string of Mammoth Jacks in the West at the fair grounds, Hutchinson, Kan. Come and see them or write for circular. Don't let anybody persuade you to buy a jack until you have seen our at Hutchinson. We will make a jack show for you any day and better than you will see at any of the state fairs in the country.

**J. F. COOK & CO.,** Hutchinson, Kan.  
Mr. J. C. Kerr, Manager.

**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.

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**Up-to-date Poland China hogs. Write your**  
**H. N. HOLDEMAN,** Mende, Kansas.

**FOR SALE—TWO COMING 3-YEAR-OLD** full blood Shire stallions; \$300 each. **Bell Bros.,** Ackerland, Kan.

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**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.

## Kentucky Jacks

Have just shipped a car load of fine Kentucky jacks from Flemingsburg, Ky. For sale privately at State Fair grounds.

**SAUNDERS & MAGGARD,**  
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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.

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## JACKS AND JENNETS

20 large Jacks from 2 to 7 years old.  
25 head extra good Jennets priced right. Come and see me.

**PHIL WALKER,**  
Moline, Elk Co., Kansas



## 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,** Desborn, 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.

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## 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 722-4 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; \$5 to select from. Write for catalog.

**G. M. SCOTT,**  
Route No. 2,  
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## PARKER PARRISH &amp; CO.

**HUDSON, KANSAS.**

## Pure Blood Angus Cattle

Herd bulls: Japan Ito, Envoy 2d, Evener 2d, Jett'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.

**BIG SPRING ANGUS CATTLE.**  
**Jasper Auldridge & Son, Pattonsburg, Mo.,**  
Proprietors  
Breeder of pure bred Angus cattle and Duroc Jersey hogs.  
Breeding Stock for Sale.

## POLLED DURHAM CATTLE

## BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1635 150385 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.

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## 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 Oner's Eminent by Eminent Rosette, tracing to Golden Lad on sires, and out of the noted cow, Financial Queen. The dam of Oner's Eminent was the \$1000 cow Oner's 2d by Guenon's Golden Lad 62168.

**JOHNSON & NORDSTROM,**  
Clay Center, Kansas.

## 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.

**JERSEY CATTLE—15 cows and heifers.** 3 bulls. Stockwell, Golden Lad, Coomassie, Guenon Lad, St. Lambert and other great sires represented. Duroc Jersey bred sows, 20 head, Ohio Chief and Top Notcher blood. Standard bred colts and fillies, intensely bred Wilkes blood by Sorrento Todd 2:14 1/4, grandson of Bingen 2:06 1/4 and Forrest Axtell 2:14 1/4, grandson of Axtell 2:12. S. S. Smith, Clay Center, Kan.

## SHORTHORN CATTLE

## Tomson Shorthorns

Herd Bulls—Bampton 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.

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Carload good, big, strong bulls, 8 to 20 months old. Priced right.

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Shorthorn cattle and Percheron horses.

Write for description and prices.  
**ISAAC NOVINGER & SONS**  
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Imported Ardlethan Mystery 300632 (85177) should go to head a first class herd. Cannot use him longer as I have so many of his daughters. He is a show bull and sure. Also have 5 of his yearling sons, all good. Prices right. Come and see them.

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Public Sale April 27, 1911.

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Young stock for sale. Also Silver Laced Wyandotte eggs for sale.

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## SHORTHORNS

Bulls, cows and heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd.

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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

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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.

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## 12—SHORTHORN COWS FOR SALE—12

Also heifers and two good young bulls. Good useful stock. Scotch and Scotch Doped. Want to reduce size of herd before grass. Visitors welcome.

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**TENNEHOLM SHORTHORN CATTLE—**Bred for beef and milk; breeding as good as the best; of Scotch and Bates lines. We use them as dairy cows and find them very profitable. A few young bulls and some females for sale. Write E. S. Myers, Chanute, Kansas.

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**Red Polled Cattle** of both sexes for sale; prices reasonable. **J. B. RESER, BIGELOW, KAN.**

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## HEREFORD BULLS AND FEMALES.

Two choice Hereford bulls 10 to 18 months old sired by Enterprise (12614), dam Prairie Queen (127345) by Counsellor (71882); eight choice heifers coming two and three years old, same line breeding; prices reasonable; all in good condition. Write or come and see me.

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**Brookside Farm, Savannah, Mo.,** breeders of Hereford cattle. Herd headed by Heald 101st No. 162885 and Horace No. 300428, he by Beaumont. Young bulls for sale. Mail orders given prompt attention.

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Headed by Christy 23417, Prairie Donald by Beau Donald 7th, and Sir Morgan by Onward 18th. Cows of Anxiety 4th, Heald, etc., breeding, including imp. animals. Over 100 head in herd. Few choice young bulls and some good females for sale.

**TOM WALLACE,** Barnes, Kansas.

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**SUNFLOWER HERD HOLSTEINS** has an especially fine lot of bull calves to choose from, 2 to 6 months old, no service bulls available at present. Send for Bull Calf Catalogue, to read it over will convince you that better breeding and quality cannot be procured elsewhere. Attractive prices will be made on several A. R. O. cows past mid die age, but still at their best, all sound and right. **F. J. SEARLE,** Oskaloosa, Kan.

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Four very choice young bulls and a few cows and heifers for sale, mostly sired by Prince Ormsby, no owned by Nebraska Agricultural College. Him dams on both sides for four generations average 20 lbs.; he has 30-lb. sisters.

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**TUESDAY, MARCH 21 AT 11 O'CLOCK SHARP ON MY FARM 6 1/2 MILES SOUTHEAST OF MERIDEN, 14 MILES NORTHEAST OF TOPEKA AND 6 MILES NORTHEAST OF GRANTVILLE.**

The offering is richly bred and carries the popular blood lines of the Duroc family and consists of 35 bred sows and gilts, 15 open gilts and 30 boars. The sows are bred mostly to D's Crimson Wonder, son of Crimson Wonder 3d, the Nebraska champion in 1908 and first in his class in Nebraska, Iowa and Illinois in 1910. The boars and open gilts were sired by D's Grimson Wonder and D's Col., a son of B. & C's Col., champion of Iowa and Illinois. The entire offering is certainly well bred, smooth, mellow and a useful lot of swine. If you are looking for something real good, you will not be disappointed if you come to my sale. Catalogs ready. 14 head of grade Shorthorn milk cows sold before lunch.

**AUCTIONEERS—COL. J. D. SNYDER, COL. F. A. TRIPP, COL. WM. DETLER.**

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**B. L. BEAN, Cameron, Mo.,** breeder 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 St., Boston, Mass.

## GUERNSEY CATTLE.

**GUERNSEY CATTLE FOR SALE.**—Young bulls by Eminence of Birchwood, 668 to 1000 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.

## GALLOWAY CATTLE.

## Capital View Galloways

A few choice young bulls sired by Imp. Campflower 3d of Stepford 30938 (8407) and Meadow Lawn Medalist 2875C.

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and should you ever wish to attend our school in person, we will pay on mail course will upon tuition here. Will hold next April 2 at Oklahoma City. The largest school of the kind in the world. **MISSOURI AUCTION SCHOOL,** Oklahoma City, Okla. Trenton, N. J.



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Breeder and Trainer of Standard Bred Horses. Breeder of the large-type POLAND CHINA Hogs. Posted on values and lines. Your business solicited. Special attention given to thoroughbred sales.

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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 phone.

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Oketo, Kan., will make pure bred stock farm sales anywhere in Kansas or adjacent states; 15 years' experience; best of references furnished. Write or phone for details.

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Am selling for the best cattle and breeders in the West. Terms very reasonable. Write or wire for dates.

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**ABILENE, KANSAS.**



# Stith & Martin Duroc Bred Sow Sale at Eureka, Kansas

Thursday, March 23, 1911

## CHAS. STITH'S CONSIGNMENT.

2 bred gilts by Eureka King, dam Lady Vernon 2d.  
3 bred gilts by Stith's Col., dam Best Ever.  
4 bred gilts by Stith's Star, dam G. M.'s Gem 2d. G. M.'s Gem 2d was  
1st prize gilt at Wichita fair 1909 and a very fine sow.  
1 bred gilt by Badger's Col., dam Orion Pink.  
1 tried sow will have litter by Eureka King, dam Orion Pink.  
1 bred sow by Eureka King, dam Best Ever.  
4 bred gilts by Commodora, dam Beauty 2d.  
4 bred gilts by Commodora, dam G. M.'s Gem.  
4 bred gilts by Commodora, dam Beauty 2d.  
4 bred gilts by Commodora, dam C. S.'s Star.  
3 fall boars by Commodora that will make good herd headers. All the  
sows and gilts are bred for April litters. We ask all farmers and breeders  
to attend our sale. We guarantee a good offering. Bids send to O. W. De  
ne will be handled with care.

CHAS. STITH, Eureka, Kansas.

Sale will be held right in town in heated sale pavilion, rain or shine. All will be made comfortable. Send for a catalog to

**CHAS. STITH or R. D. MARTIN, Eureka, Kansas**

AUCTIONEERS—COL. JOHN D. SNYDER, COL. LON SMITHERS.

## R. D. MARTIN'S CONSIGNMENT.

2 tried sows by Dandy Duke, dam Slick Beauty and Hattie May 2d, bred  
to Model Duroc.  
3 fall yearling gilts by R. S.'s Improver, dams Beauty Right 2d and Hat-  
tie May 2d; two are bred to Dandy Duke, one sold open.  
3 spring gilts by Tattarrax Model, dam Crimson Lady, bred to Greenwood  
Chief.  
20 head mostly spring gilts sired by Tattarrax Model and Dandy Duke,  
bred to Greenwood Chief, Model Duroc and Orion Chief for spring litters.  
1 tried sow by Buffalo Chief, dam Red Beauty and bred to Model Duroc.  
2 late spring boars sired by Tattarrax Model. All the gilts are large,  
growthy gilts and are bred for April litters. All in first class condition.  
Send for catalog and come to sale. If you cannot come send bids to O. W.  
Devine representing Kansas Farmer, who will treat you right, but we want  
all farmers and breeders to attend that can. We want to meet you.

R. D. MARTIN, Eureka, Kansas.

# DAWLEY'S HOME FOLK'S SALE Poland China Bred Sows At Farm, Near Waldo, Kas. March 23

50 head of choice sows and gilts of up-to-date breeding, sired mostly by S. P.'s Perfection, champion of Iowa 1906, and Impudence I Know, re-  
serve champion of Missouri 1907, and other noted boars. The offering is bred for April and May farrow to above boars and Kansas Medler, Valley  
Chief and Sir Darkness, a trio of good young boars.

If you want some real bargains come or send to this sale. Will also sell 100 head of pure bred stock hogs at this sale. Send for breeding list.  
Sale will commence at 12 o'clock sharp.

**F. A. DAWLEY, Waldo, Kansas**

AUCTIONEERS—COLS. J. M. & E. O. CLARK.

## PERCHERON MARE SALE AT POMONA, KANSAS

Tuesday, March 21, 1911

head of Percheron Mares. 1 pair of black mares.  
black two year old fillies. 3 brown mares.  
1 pair gray mares.

All these mares are registered or eligible to register in the Perche-  
ron Society of America and range from two to eight years old, and  
are all bred and we believe in foal to our registered Percheron horse,  
Jean 29191. They are all large, heavy type—good bone and carry  
one of the best blood lines known to the breed, and will be sold with  
reserve. We ask all lovers of good horses to come to our sale.

J. E. COFFEY & SON, Pomona, Kansas

AUCTIONEERS—COL. E. E. VICKERS, COL. DOC. HARLAN.  
For reference, our banker, G. A. Huddleson.



## 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.

## Percheron Stallions

As fine a bunch of stallions  
you will find. I have the ton size,  
1,700 to 1,800 pound two year  
old with worlds of bone and great  
power. My prices are right and my  
terms are right.

For home grown Percherons,  
BARNHART, Butler, Mo.

## 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

## 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 individ-  
ually selected for size, bone quality  
and excellence. If you want choice  
stallions or mares, write for cata-  
logue, illustrated from life.

W. S., J. B. & B. DUNHAM  
WAYNE, ILL.

## Percherons Belgians and Shires

My new barn is  
now ready and filled  
with a large assort-  
ment of imported and Home Bred Percheron,  
Belgian and Coach Stallions; also mares  
and colts. I will sell you a registered stall-  
ion for \$300. Come to Paola and buy a  
stallion or mare at their actual value.

JOSEPH M. NOLAN, Paola, Kansas,  
mention the Kansas Farmer.

## THE PERCHERON SOCIETY OF AMERICA.

Has just taken over all records and business  
of Percheron Registry Company of Colum-  
bus, Ohio. 215 breeders took membership  
in P. S. of A. during Dec. and January alone.  
137 more new members added through re-  
cent acquirement named above. There is  
now but one recognized Society in the  
United States recording Percherons. For  
information address WAYNE DINSMORE,  
Secretary, Union Stock Yards, Chicago, Ill.

## Two Choice Percheron Stallions at a bargain. Weight 1750 to 2100.

John D. Ziller, Hiawatha, Kans.

## FIELD NOTES.

### Fine Poultry Opportunity.

Opportunity to get fine White Orpingtons,  
single and rose comb, and the true Fawn  
and White Indian Runner ducks is offered  
in the advertisement of John S. Leach,  
Hartford City, Ind., which ad occurs in this  
issue under heading of Orpingtons.



**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 as-  
sured. Make us a visit.

**WATSON, WOODS BROS. &  
KELLY COMPANY**  
Dept. 1 Lincoln, Neb.



## Avoid Fighting Chicken Lice

The most prolific breeding places for lice  
and mites are in the hen's nests. In the  
hot weather hen's nests usually become in-  
cubators for this vermin. The use of metal  
nests avoids the propagation of lice. How  
this works out is shown by this extract  
from a letter from George L. Knapp of  
Newton, Iowa, to the Knudson Mfg. Co.,  
Box 103, St. Joseph, Mo., which company  
manufactures and advertises in this paper a  
superior kind of metal nests. Mr. Knapp  
writes: "I purchased nests from you early  
last spring installed them in my hen house  
and they have been in use ever since; what  
is more, no one can take them out, for I  
went through the summer months without  
a mite or anything else. They are all right  
and you got my stamp of approval on Knud-  
son's Galvanized Hen's Nests. Now then,  
the last part of your letter says to sit right  
down and order, and that is just what I  
am going to do. You do not quote a price  
on your No. 2 nests, the single ones, but I  
want four (4) of them at once, and you can  
send them via U. S. express and I will send  
you check for same." Write the Knudson  
Mfg. Co. at address above for full descrip-  
tion, uses and prices of their metal nests.



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## SAY Buy a farm or build an agency.

BUCKEYE AGENCY, Agricola, Kan.

WHAT have you to trade for lands or city property? Hale, Coffeyville, Kan.

SOME splendid bargains in Famous San Luis Valley. Cline Land Co., Lamar, Kan.

COME to Butler Co., Kan., for a home, 40 to 720 a., prices right. Benton Land Co., Benton, Kan.

GET OUR BOOK OF 500 FARMS and properties everywhere to trade. Graham Bros., Eldorado, Kan.

IMPROVED FARMS in S. W. Kansas and N. W. Oklahoma, \$10 to \$25 per acre. Write Moore & Falls, Liberal, Kan.

PARTNER WANTED in real estate business. A. F. Toney Wilson, Jr., & Co., 509 Kansas ave., Topeka, Kan.

S. E. KANSAS Improved farm lands \$35 to \$60 per acre. Write for descriptive list; no misrepresentations. Foster Bros., Independence, 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—We have farms \$45 to \$65 per acre; possession if sold by March 15th.

RICHMOND LAND CO., Richmond, Kan.

FOR SALE—General merchandise, small town; excellent opportunity for live man. Address: State Bank of Cummings, Cummings, Kan.

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.

1120 ACRE COMBINATION RANCH. 25 head horses and colts above average, and one registered Percheron stallion. Write for particulars. 30 acres first-class alfalfa land in famous Artesian Valley at a great bargain. W. M. 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.

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 McDerby, Stocking & Co., 239 Dearborn St., Chicago, Ill. No trades.

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 \$30 per acre. List free. A. E. ROOT, Pleasanton, Kan.

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.

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. ILLER & SON, Garnett, Kan.

POULTRY RANCH FOR SALE. One of the best poultry ranches in the state. Two acres adjoining Washburn college campus. 9-room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades. POULTRYMAN, Kansas Farmer Office.

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.

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.

YOUR ATTENTION, PLEASE. We don't want to sell you anything, but want to work for you. Tell us of what you have to trade and we will match it. BREMYER & BRUBAKER, McPherson, 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.

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. F. ROSA, Galesburg, Neosho County, Kansas.

## FOR TRADE

80 acres, 4 miles of Garnett, Kan., 70 acres in cult., 6 room house, barn, cribs Price \$5,000; mortgage \$1,300. Wants grocery or gen. mds. 325 acres, 5 miles of Bush City. Price \$16,000; mortgage \$5,600. Wants small farm in northeast Kansas. SPOHN BROS., Garnett, Kansas.

### EXCHANGE

We have just completed a contract whereby we have exclusive agency for many desirable farms in Decatur county, Kansas. All smooth, good wheat land, at desirable prices. Can be traded for eastern Kansas land. If interested in securing lands in western Kansas at prices so low you can afford to hold for advance in value, here is your opportunity. GEO. M. NOBLE, JR., With Geo. M. Noble & Co., 435 Kansas Ave., Topeka, Kansas.

### 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

225 a. Verdigris bottom, big house, phone, 2 fine wells, 2 big barns, etc., all in cult. and meadow except few acres fine timber; have produced 80 bu. corn, 40 bu. wheat and 8 tons of alfalfa per acre; in oil and gas belt and unleased; 3 miles good town and 9 miles to county seat; an estate; no agent's profit. Price \$65 acre. You can't buy better land at any price; will soon double in value. LOCK BOX 656, Fredonia, Kansas.

### YOU CAN'T BEAT IT.

160 acres, level, sub-irrigated land, fenced, 100 a. in wheat, 1/2 goes; best in county; 60 mow land; all can be farmed; half mile to school; 3 miles to trading point; on R. F. D. and phone line; first class for investment or a home. Price \$6,000; terms. All new land. Write BROWN, GRANT & WALTER, Kingman, Kansas.

### BEST STOCK AND GRAIN FARM IN EASTERN KANSAS.

For Sale—480 acres in Douglas county, 5 miles from Lawrence, 1 1/2 miles Midland, Kan. Price \$75 per acre. CHARLES E. SUTTON Law and Co., Kansas

A HUMMER—160 acres, house of 3 rooms, stable for 3 teams, cow stable, well, windmill tank, cement chicken house, 10x30, 80 acres in cultivation, 80 acres in pasture, all can be farmed; rich soil, second creek bottom. Price \$3600; good terms. Send for big list. Address STINSON & SHELTON, Spearville, Kansas

## KANSAS FARMS AT AUCTION

At public auction, Monday, March 21, 1911, I will sell 1440 acres improved wheat and alfalfa land. Improvements: 2 houses, 2 barns, 4 wells, 2 windmills, 2 springs; 25 a. alfalfa hog pasture; 600 a. breaking; 600 a. wheat (one-third goes with place); 35 a. alfalfa, 60 a. more ready for alfalfa seeding; 10 mi. wire fence, etc. Will be sold in quarter section tracts. Land lies 16 mi. S. of Quinter, Govt. Co. and 16 mi. N. W. of Utica, Ness Co., Kan. Terms: One-fourth cash; balance in 10 years at 6 per cent. I will meet you with rigs on morning of sale at Quinter and Utica. N. LUND, Owner.

### EASTERN KANSAS BARGAIN.

77 acre farm 3 1/2 miles out, 6 room house, barn for 6 horses, all kinds of fruit, 20 a. wild nut land, 15 a. clover, 15 a. pasture, balance in cultivation, all nice smooth land; possession any time. Price \$55 per acre, easy terms.

### KNIGHT LAND CO., MORAN, KAN.

FINE HOME, 48 a., one mile of this city, about 38 a. now in cultivation, bal. pasture, 6 room house, new barn 34x60 and hay loft; two wells and mill and other outbuildings; good orchard and all second bottom land. Priced to sell at \$5,500 cash. E. F. Dewey, Blue Rapids, Kan.

### POSSESSION ANY TIME.

160 acres, all good alfalfa and corn land, 40 acres native pasture, some alfalfa, fenced hog tight, balance of land in a high state of cultivation, large fine orchard, good 7-room house, large bank barn and other outbuildings, located 5 miles from Union Stock Yards in Wichita, Kan.; R. F. D. and phone. This is a fine farm and home. Price \$15,500. EDWIN TAYLOR REALTY CO., 107 South Main Street, Wichita, Kansas.

## CHEAP ENOUGH

No. 1021—320 acres level land five miles from Parsons, 300 acres cultivation, mostly in crop; plenty fine water; no buildings; in good neighborhood and would make ideal home farm. For a short time only \$21 per acre. MINER BROTHERS, Ness City, Kansas.

## ONE-TENTH - CASH - BALANCE EASY

Business and residence lots in Plains \$12.50 to \$50. Rapidly growing city in southwestern Kansas. Population should double in a year. Modern improvements, electric lights, telephones, cement walks, main line railway, etc. Buy now and get benefit of early spring advance in price. Send for plat today and get early choice.

JOHN W. BAUGHMAN, Plains, Kansas.

### OKLAHOMA LAND.

### GET A HOME.

150 acre farm 2 1/2 miles of R. R. town and 5 miles of county seat, 10 a. in cultivation, 40 a. pasture, 10 a. mow land, 5 a. orchard, 5 a. alfalfa, good 6 room house, small barn and granaries, all fenced, 2 fine wells of water, fine grape vineyard, 3/4 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.

### 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., Lead, Colo.

## TEXAS LAND

## LOWER PECOS VALLEY IRRIGATED LAND

In West Texas is absolutely the best location for safe and profitable investment in America. 40 acres will provide an ideal home and a yearly income of \$3000 to \$5000. Development has only fairly started and present values will double and treble in price within two years. We own or control the sale of the best dependable irrigated lands which we can sell in tracts to suit at from \$50 to \$100 per acre, water rights fully paid, on easy terms, or we can supply sections of arid land or shallow pumping well lands at \$5 to \$10 per acre. For productive acres and all the year climate the Pecos Valley is unsurpassed. Let us know your wants and we will supply detailed information. Address THE HEATH COMPANY, 100 West Seventh St., Topeka, Kan.

## SPLENDID CROPS in Saskatchewan (Western Canada)

800 Bushels From 20 Acres of wheat was the thrasher'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 \$5.00 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 Immigr., Ottawa, Can., or Can. Gov't. J. S. CRAWFORD, 125 West 9th Street, Kansas City, Mo.

## OZARK ORCHARD BEARS

and small lands on the roads, close to Distributing Station and their BEST around "Goodman Commercial" McDougal County, Missouri. CLIMATE, HEALTH AND WATER the best. Markets at YOUR DOOR. ers' Association established. Beautiful Booklet showing scenes and conditions with PRICES and TERMS upon request. JAMES B. WELSH REALTY & LOAN, Ozark Dept 8, Kansas City, Mo.

I have an upland farm with soil and clayey subsoil. Would like to build up the soil and at the same time raise a crop worth while. What cow-peas do in this locality? What variety should be used and when should they be planted? What grass would be best to make hay for horses? How early should timothy do sown in the fall following millet? Would Bromus inermis be a good hay? What of hairy vetch? It do well in this section? If so, and how should it be planted? Sellers, Oskaloosa, Kan.

I am mailing you circulars, 2 1/2 5 on manures, fertilizers and rotation of crops as related to maintaining fertility. I am also mailing you a letin 160 on cow-peas. You will find the cow-peas a valuable crop in section of the state, both for hay and for fertilizer. The cost of seed is the main factor which prevents the crop from being extensively grown but you may produce your own seed by practicing the methods described in the booklet which has been mailed you.

Timothy or the combination of timothy and clover should grow very successfully in your part of the state. Planting or sowing timothy in the fall after millet may usually give results, or the timothy with clover should be sown early in the spring a well prepared seed-bed. Corn stalk ground, disked and hewed, makes a good seed-bed for spring sowing.

Bromus inermis is a good hay and should be sown in combination with clover or alfalfa in order to cure the largest product and the quality of hay. The combination also more permanent than Bromus inermis alone, which tends to be thick and sod-bound and unproductive after a few years' growth. I have recently prepared a bulletin on this which is now in the press and may secure a copy as soon as published by writing to the director of the Experiment Station, Manhattan, Kan.

Cow-peas or field peas may be sown early in the fall and will be a great advantage in seeding the fall with rye or other grain, when the combination is cut for hay or the grain may be vetch and the vetch hay sown later in the season, or the vetch may be used for pasture. Hairy vetch sown early in the fall may also be a very valuable hay crop grown in combination with grain. Its running, viny habit makes it well adapted to cut and harvest.—A. M. Ryck.

SEED CORN with the Germ Preserved. The kind that will grow and grow strong and vigorous. This is the Quality of corn I have. Send for my Free Book. It will show you how I do things. If you see my system of preserving the germ you will say that it is the best in the world.

FRED ECHTENKAMP, Box XX, Arlington, Neb.

Grower and Shipper of Seed Corn, Field and Garden Seeds.

## STOCK AND GRAIN FARM

OF 480 ACRES, 14 MILES TOPEKA, 4 MILES RAILROAD STATION. 100 ACRES FIRST AND SECOND BOTTOM, 70 ACRES ALFALFA, CLOVER AND TIMOTHY. ACRES IN CULTIVATION, 60 ACRES HOG TIGHT, EVERLASTING SPRING WATER IN ALL MEADOWS AND PASTURE, 400 ACRES CAN BE CULTIVATED. GRADE SMOOTH MEADOW LAND, THE BEST COMBINATION GRAIN AND STOCK FARM IN SHAWNEE COUNTY. PRICE \$50 PER ACRE, ON TERMS, OR \$2500 ACRES WITH IMPROVEMENTS AT \$60. POSSESSION AT ONCE.

## WINGETT LAND CO.

A. J. WHITE, Farm Salesman, TOPEKA, KANSAS.

109 WEST SIXTH STREET



# 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.  
March 30—Kepple & Barnett, Glen Elder, Kan. Sale at Beloit, Kan.

### Shorthorns.

April 27—Harry R. Coffey, Savannah, Mo.  
June 6—C. S. Nevius, Chiles, Kan.

### Jerseys.

April 26—H. F. Erdely, Hiawatha, Kan.

### Poland Chinas.

May 12—C. S. Nevius, Chiles Kan.  
Oct. 5—J. C. Stalter, Jasper, Mo.  
Oct. 11—S. A. Hobson & Son, King City, Mo.  
Oct. 21—W. C. Singer, Hiawatha, Kan.  
Oct. 24—W. F. Fulton, Waterville, Kan.  
Oct. 25—Walter Hoidwein, 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.  
Feb. 9—W. E. Willey, Steele City, Neb.

### O. I. C. Swine.

Oct. 23—Arthur Mosse, Route 5, Leavenworth, Kan.

Notice the offer of a standard bred horse made by Mr. Linscott of Holton, Kan., in our advertising columns. This may be just the horse you are looking for. Look up the advertisement and ask Mr. Linscott about him.

### Bargains in Rambler Autos.

On page 13 is a small ad by the Rambler Automobile Co., Kansas City, Mo., announcing two Ramblers for sale at bargain prices. This company is the distributor for Rambler cars in Kansas and Missouri and is reliable in every way. Its statements can be depended upon.

### Larned, Kan., Nov. 6, 1905.

Currie Windmill Co., Topeka, Kan.  
Gentlemen: Please find enclosed draft for the windmill ordered of you some time ago. In regard to the mill will say for simplicity and power I think your mill excels any on the market. I have three other makes of mills—J. J. Nesbit, Superintendent of Larned Water Works.

### Percheron Stud Book.

Volume 12 of the stud book of the Percheron Society of America has been issued in two parts for convenience. Part 1 contains the pedigrees of stallions numbered from 57814 to 58954, and part 2 those of mares numbered from 58987 to 58412. These volumes are very handsomely gotten up and are now ready for distribution. The price to members is \$3 and to non-members \$5 for both parts. Address Secretary Wayne Dinsmore, Stock Yards Station, Chicago, Ill.

### The Mosse O. I. C's.

Dora Bella, the dam of the under 6 months pigs which won prizes for Arthur Mosse in the O. I. C. classes at the Topeka State Fair last fall, farrowed 17 pigs on March 5, and Dora Mary, dam of the champion sow at the same fair, farrowed 12 pigs on March 1. When it comes to prolific qualities the O. I. C's are hard to beat, especially the Mosse kind. This herd is gaining in favor every day for quick maturity and prolific qualities and you may want some of these big litters. Make a note of it.

### Echtenkamp's Seed Corn.

Fred Echtenkamp of Arlington, Neb., says three things are required for the production of good crops—good seed, good soil and good tillage—and he supplies the seeds. Our representative has called personally on Mr. Echtenkamp for several years and we recommend him highly as a man thoroughly reliable and one who has done a great service in working out advanced ideas in seed corn production, housing, grading and testing. Those desiring to know of Mr. Echtenkamp's work should write for his seed book mentioned in his ad in this paper. It shows pictures of his seed house, how the corn is carefully stored away in racks; no ears lying on each other; how he dries the corn and by the means of steam heat keeps the temperature always from 46 to 60 degrees in winter so the corn will not freeze. Mr. Echtenkamp's prices are reasonable and his corn is testing better than 95 per cent. Read his ad and send for the free book about seed corn, mentioning Kansas Farmer.

### Low Cost Life Insurance.

About every man at some time or other in his life has felt the need of dependable life insurance. And most men carry more or less life insurance. Probably more men would be carrying what is popularly known as "old line" life insurance if they didn't think they had to pay too much to get it. Every insurance company must figure to collect enough from policy or certificate holders to pay death claims as they occur. In addition to that an extra charge must be made against each policy for the "cost of doing business." In all insurance agency commission is the big part of this extra charge. Up to a few years ago all "old line" life insurance was written by agents who had to be paid big commissions. Of course these commissions, as a part of the premium, help to make the premium big as it is. A few years ago, however, the Postal Life Insurance Co., 35 Nassau St., New York City, began to write insurance without agents. They began to do business by mail direct. The idea proved a good one, for the company has been freely patronized from every part of the country. The thing that has made it popular is the saving to the policy holders of the big agency commissions. The company guarantees to do business with any prospective policy holder for \$11.25 per cent less than other companies—to 24 to 29 per cent per year. Look up the advertisement of this company on another page of this paper and write for their prospectus. It is worth studying, whether you are young or its insurance or not. Chances are you'll be immediately and greatly interested. Kindly mention Kansas Farmer when writing.

## A Shoe of Steel.

In ninety cases out of every hundred colds are the result of exposure to weather and wet feet. Folks have not time to wear rubbers and, besides, all kinds of overshoes or rubber boots wear out quickly and are not practical for heavy, every-day wear. Even the heaviest leather seems inadequate protection and one of ordinary make heavy shape and appearance. The sole and lower portion of the shoe is of seamless steel extending one inch and more all around the upper, inviting the wearer to wade if necessary. Wet plowed fields, marshes or flooded roads—all the same to the man or boy in Steel Shoes. One vital point which ought not to be overlooked is the immunity which these shoes secure from lockjaw, blood poisoning and such serious troubles as result from rusty nails, wire, splinters, etc. The wearer is insured, too, against slipping, as the soles are fitted with adjustable rivets which can be replaced by the wearer for a trifling sum. Write a postal for the booklet,

## Sutton's Daddies.

George A. Porteous, manager of the Sutton herds of Angus cattle, Route 6, Lawrence, Kan., writes as follows: "I intended sending you some information about our sales of Angus cattle, but have been obliged to go to Denver and delayed until now. Since our return from Denver, we have sold 39 bulls and seven heifers into five different states, and have been unable to supply the demand for the best class of bulls that are coming 2 years old. Next week, however, we will have our entire spring calf crop shipped from the Russell, Kan., farms to the Lawrence farms and these will include about 50 bulls. These animals have been well fed and are well grown out and lusty fellows ready for service. We invite any one who is in need of bulls to see these at once, as we feel sure that their quality will cause them to sell readily. They have the size, quality and uniformity and will breed uniform calves." Note their change in advertisement.



Marathon 55330 (68658), imported Percheron stallion, winner of first prize and reserve championship at the Chicago International of 1910. Head of Oaklawn stud, owned by W. S. J. B. & B. Dunham, Wayne, Ill.

"The Shoe of Steel." Address The Steel Shoe Co., 120 Seventh St., Racine, Wis., and get enough to be waterproof is very apt to be clumsy, uncomfortable and of short wear. Nothing is so nerve-racking as sore feet. Any shoe which guarantees weather protection and is easy to wear ought to find a wide and useful field. And it does. There is a shoe on the market and they have a wide market, especially among those whose work exposes them to weather. And it does not seem to matter what weather. This Steel Shoe keeps the feet dry and warm in the winter and cool and dry in the summer. It protects from perspiration no less than outside damp. The "rub" lies between shoe and sock, saving the friction which in leather shoes induces bunions, corns and all the ills of swollen, aching feet. "Steel Shoes sound heavy, but they are lighter than ordinary thick-soled shoes, and neat in all the facts. They are mighty interesting.

S. A. Bugg, Hamilton, Mo., still has a very large offering of early pigs for the fall trade. Mr. Bugg is the owner of one of Missouri's best Poland China herds. His breeding is the very best. He had over 60 pigs farrowed in February and which are a very fine lot of pigs and a desirable lot for fall buyers.

### Wintermute's Big Peland.

We call attention to the card of J. H. Wintermute of Blockton, Iowa, in this issue of Kansas Farmer. Mr. Wintermute has long been recognized as one of Iowa's leading breeders of big Poland Chinas, and today he has one of the best big Poland China herds in the west composed of individuals that not only have the size but are all that could be desired in the way of class and breeding. His celebrated herd boar, Surprise Tecumseh 133923, is classed by many of the leading breeders as the best



The thirteen registered Percheron mares in the \$13,000 aged Percheron mare class at the Mitchell County (Kan., Fair, Beloit, Kan., 1910. Four of these mares were the property of Kepple & Barnett, Glen Elder, Kan., and are included in their dispersion sale of Percherons at Beloit, Thursday, March 30, 1911.

Kepple & Barnett of Beloit, Kan., who are advertising the big horse sale in these columns, have secured the services of Col. H. S. Duncan to conduct this important event. Col. Duncan lives at Clearfield, Ia., but is one of the professors in charge of the Missouri Auction School at Trenton, Mo. Buyers at this sale will see some fine work done on the auctioneer's block.

### Dawley Sells 150 Head at Auction.

On Thursday, March 23, F. A. Dawley, for years the best known and most popular Poland China breeder in Kansas, will make a sale of 150 head from his well known herd. Included in this sale are 22 daughters of the noted boar, S. P.'s Perfection 112295, champion of Iowa in 1906 and one of the greatest breeding sires ever brought to Kansas. There will also be daughters of the noted old Corrector and Impudence I know. One the dam's side these sows are rich in the blood of the grand old sire, Grand Chief. This will be a bargain day out at Dawley's and no lover of good hogs can afford to miss it. The sale will be held on the farm, five miles north of Waldo. If unable to attend send bids to Jesse Johnson in Mr. Waldo's care at Waldo.

big type boar in service at this time, and the best informed breeders in the country concede that Mr. Wintermute's sow herd is second to none. In selecting his breeding stock with unusual care he has succeeded in building up a truly remarkable herd of big Peland. At the present time Mr. Wintermute is offering a few top fall boars at prices that should move them quickly. They are sired by Surprise Tecumseh, and Thousand Pound Prospect. He is also offering for sale Thousand Pound Prospect, a 3 year old herd boar. He is very large, long bodied, smooth back with black coat and six white points. He is also long on class and finish. If you want a herd boar of the big kind or some toppy fall boars of the same kind Mr. Wintermute can interest you.

J. S. Kennedy of Cedardale Farms, Blockton, Ia., one of Iowa's pioneer Chester White breeders, and the owner of one of Iowa's best Chester White herds, has by care in selecting breeding stock from year to year succeeded in building up a herd of the truly big kind, and at the present time will show for size and class with any of the big ones. His herd is headed by Perfection 19595, he sired by Big Dick 20533. Among his famous sows are Lady Belle 29830, with

## AMERICAN STANDARD of POULTRY PERFECTION



Get this book. It shows what is adopted by the American Poultry Association as the standard for each variety and breed of fowl. You can't know how good your fowls are or how good to breed them unless you study this book. Show prizes are awarded according to it. The only official standard. Sent postpaid on receipt of \$1.30, the official price. Address orders to

KANSAS FARMER, Topeka, Kansas.

a record of 155 pigs in 12 litters and raising 117 of them; Queen of the Valley, sired by Major, Jr., 19297; August Flower 42878; Rose Hannah 41262, and others of noted prolific qualities, all with records for litters ranging from 11 to 14. Mr. Kennedy will be on the market for the fall trade with a fine lot of pigs farrowed in January and February, the offspring of the noted sows in his herd and sired by Galloway Dick 29486, Belle's Chief 29551 and Perfection 10505, recognized as a trio of great boars. If you are interested in Chester Whites it will pay you to keep this herd in mind.

### Clary & Sons' Sale.

On account of unfavorable weather the annual stock and jack sale of J. E. Clary & Sons of Sheridan, Mo., on March 8, was not as largely attended as usual. Clary & Sons' annual sale is always an event of interest at Sheridan, and this year's sale was no exception. Their offering this year of jacks, mules, horses, cattle, hogs and sheep was larger than at any former sale, and was probably the best lot they have ever sold. But on account of only a fair attendance and a consequent scarcity of buyers for the large offering, the range of prices was only fair, when the quality of stock is considered. Although it appeared early in the sale that high prices would not prevail, Clary & Sons were game, and promptly announced that everything advertised would be sold regardless of price, as long as there was a bidder and refused to entertain any suggestions for a postponement or interference with the sale in any way. They expect to continue their custom of holding an annual sale and want a record for selling as advertised regardless of conditions or consequences. The sale aggregated \$9,010. Eight jacks were sold at prices ranging from \$950 to \$215 for youngsters. The top price for a team or horses was \$355. The top price for a team of young mules was also \$355. Clary & Sons expect to prepare for their next sale on a larger scale and will adhere strictly to their motto: "A bigger and a better offering each year."

### The Teunehelm Shorthorns.

E. S. Myers, Chanute, Kan., owns the Teunehelm Shor horn herd. He writes as follows: "We pay particular attention to the milking qualities of our breeding animals, and have demonstrated that good beef form and profitable milk production can be had in the same animal. Our cattle are principally of Bate, blood lines, and the balance are Scotch and some of these are good milkers. We have a 3 months old bull calf that is out of one of our choicest milk cows, who is also one of our best cows in beef form. This fellow should go to be a some herd in which the milk trait is sought. I can also spare some heifers out of the good milk cows, as well as a few Scotch heifers."

### Roan's Big Sale.

G. C. Roan, owner of the Clover Leaf Valley Jack Farm, 14. Platte, Mo., writes Kansas Farmer as follows: "I herewith enclose you check for my advertising account. I thank you for the kindness with which you have treated me, and hope our relations will always be pleasant. My sale broke the world's record in selling the best blood and the best quality of stock in the best condition, at the lowest prices ever made on such stock. I think there is but little more room for top prices, but there is lots of room for good stuff at bottom prices and I am selling it and making a little money."

### DeClow's Percheron.

W. L. DeClow, owner of the Cedar Rapids Importing Farm, Cedar Rapids, Ia., writes as follows: "My jack trade has been exceptionally good this season, and I look for as large a volume as has ever been experienced by the dealers. During the past few days I sold a very fine imported gray Percheron stallion, weighing a little over a ton, to a firm in Illinois; a fine big dapple gray, weighing 2400, to a firm in Iowa and a nice black ton 2-year-old Percheron to a breeder in Iowa. One 2-year-old went to Minnesota, a 4-year-old black Percheron, weighing 2200, to Ryan, Ia.; a fine gray, weighing 1900, to West Union Neb.; another weighing 2110 to North Platte, Neb., and a ton horse to Wayneville, Ill., while a big Belgian, weighing 2200, went to Clermont, Ia., and a Percheron mare to Galba, Ia. I now have over 100 head of stallions and jacks in my barns, and am anxious to move them as rapidly as possible, in order to make room for new importations. My prices are attractive."

### TEN WEEKS 10 CENTS.

Put a dime or ten cents worth of postage stamps in an envelope with the name of some good friend or neighbor to whom you would like Kansas Farmer sent ten weeks as a present from you. We will send a neat card to your friend telling him you are sending him the paper. Could you do him a better turn?



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