

# KANSAS FARMER

For the improvement  of the Farm and Home

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**T**HE responsibilities of age are as nothing compared with those of youth.

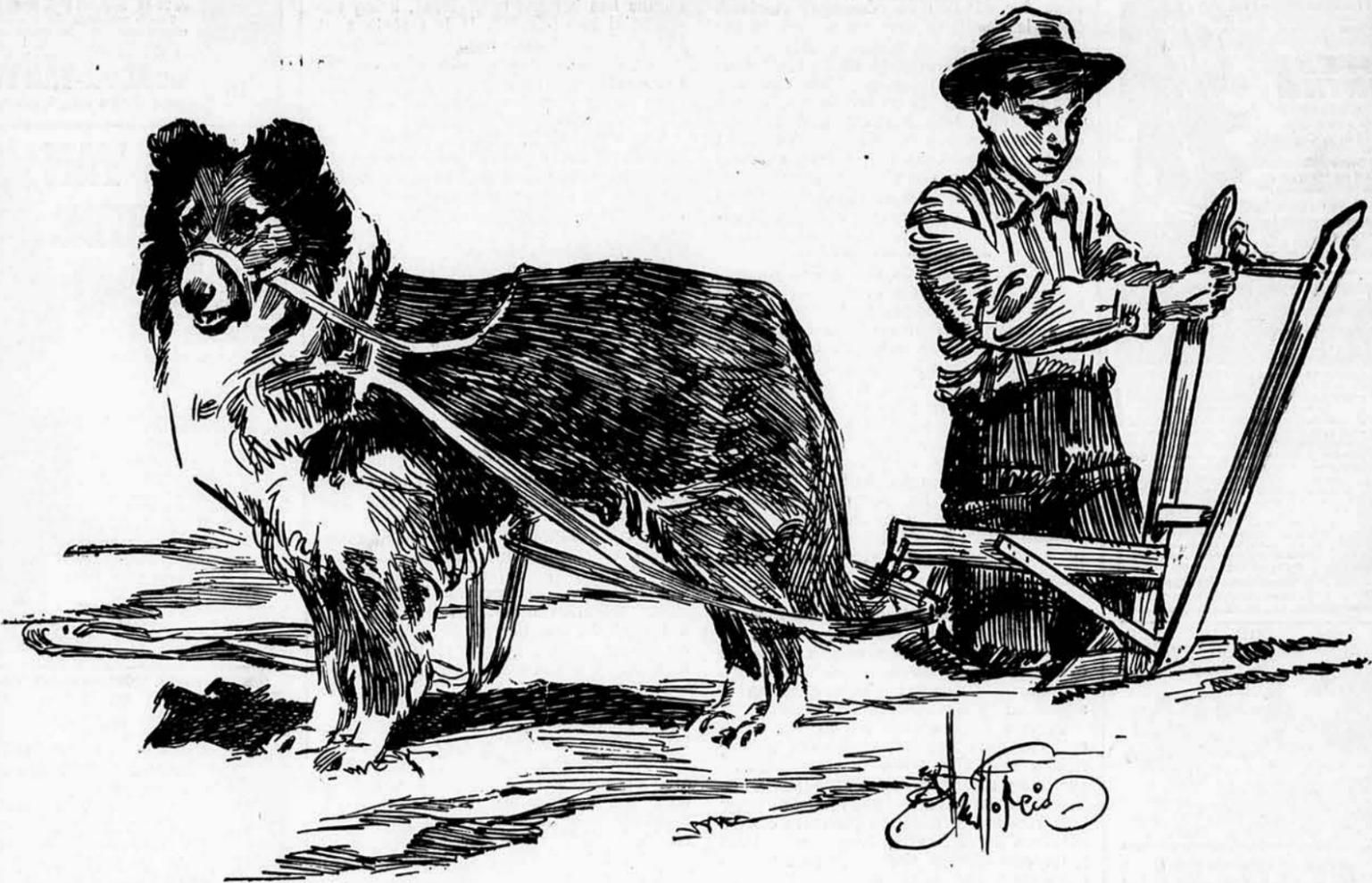
All of that mighty service which has brought man from savagery to civilization; the country from a wilderness to wealth and nations from arms to amnesty—which has girdled the globe with spidery wires; bounded nations together with steel rails; overtopped Babel with his offices; mapped the moon and bred the bacillus, belongs to the aged and his forbears.

The maintenance of all this and the world's future development belongs to the youth. The lands have all been invaded, the poles discovered, the seas sounded, distance conquered, communication enhanced and the mysteries of nature laid bare; yet the youth of today has more to do, and more to do with, than had all his ancestors.

With all of our arts and sciences we are barely peeping through the portals of possibilities. We grow grain without knowledge, are helpless before disease and don't even know how to keep clean.

But the youth's greatest task is the improvement of man.

—I. D. G.



*Purposeful Play in Childhood is the Surest Training for Success in Later Years*

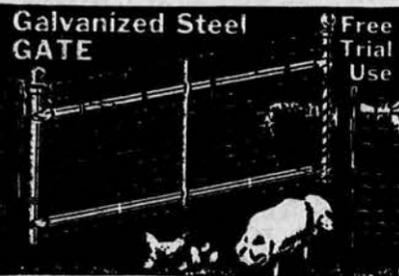


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# FARM AUTO

## For the Farm Auto Owner

Inquiries and Suggestions Solicited

### In Case of Fire.

In case gasoline gets on fire, remember that water spreads the flames. Use a fire extinguisher, sand or blanket. If the gasoline in the carburetor catches fire, turn fuel off at the tank and open the throttle wide, which will have the effect of drawing the flames into the cylinder and do no harm.

### Drive to Avoid Ruts.

Whenever possible, driving in ruts should be avoided. You can afford to sacrifice speed and comfort to observe this admonition. Ruts cause undue wear on the sides of casings at a point on the casing where it is not designed to resist abrasion. The result of habitual neglect of this precaution will result in blow-outs.

### Farm Gas Engines.

The first book to be published especially for the farmer on gas and gasoline engines, is one KANSAS FARMER has just received. The publishers are the Gas Engine Publishing Company, Cincinnati, O., and the book sells for \$1. The book contains a number of illustrations, and the table of contents covers the entire range of gasoline engine operation as applying to the stationary and automobile engine.

### Keep Wiring in Good Order.

Very recently we saw a magnificent car considerably damaged by fire which was the result of the insulation having worn off the electric wiring. In going over the car, looking for trouble, it is well to examine the wiring. The wiring should, in the first place, be installed so that it cannot chafe against the steel or wood frame and wear off the insulation. This is necessary for best results in the operation of the car, to say nothing of the danger from fire.

### Hosts Liable for Damage.

A man and his wife visiting friends in St. Paul, Minn., were given an automobile ride by the latter. The machine turned turtle and the visitors sued their host for \$21,000 for damages received. This is the first case on record in the United States in which guests on an auto trip attempted to make their host responsible for injuries. This case has not been heard. Recently, in England, a similar suit was brought and the decision rendered in favor of the defendant on the ground that he received no compensation from the plaintiff for the ride and as a guest had no cause for asking for damages on account of injuries received.

### Kansas Girl in Cycle Relay.

Miss Inez Patterson, heroine of the "short grass" Kansas motor cycle tour of four western states, has enlisted in the ocean-to-ocean relay of the Federation of American Motor Cyclists. She is an enthusiastic high school girl who loves the rollicking out of doors and the motor cycle, she says, is the best means of enjoying it. Although only 16 years old she has won her way into the hearts of Kansas motor cyclists. For several years she's been "master" of a motor cycle. She's learned before most girls—or even boys, for that matter—everything about riding two-wheelers.

### Power of Long and Short Stroke Motors.

Of two motors the same diameter cylinders—one a long stroke and the other a short stroke—which develops the greatest power? This question is answered by the Motorist, as follows: Of two motors each having the same cylinder diameter but one being a long stroke and the other a short stroke, the long stroke is the more powerful. Tests reported in a technical journal show that five motor horse-power can be obtained from having long stroke than from one having the same piston displacement but with a shorter stroke. To have the same displacement the long stroke type would necessarily be a smaller bore than the short stroke.

### Long Life to Auto Tires.

In an endeavor to give its patrons complete satisfaction, the Goodyear Tire Company is trying to educate tire users to the care of tires in a manner that will bring long life and reduce repair bills to a minimum. The one who would follow these instructions should begin

by supplying himself with a reliable air gauge, and then use it to keep his tires inflated at the prescribed pressure—20 pounds per inch of the cross section. For instance, if a tire is four inches, then the pressure of air should be 80 pounds.

Another thing the man who wants to save expenses should bear in mind is the fact that 5 per cent added to the weight of a car usually subtracts 15 per cent from the life of the tires. As long as the car owner can, with smiling countenance, pack eight or nine people in his seven passenger machine, he must accept the consequences.

Avoid car tracks and ruts. Don't try to speed over rough roads. Examine your tires often for cuts and stone bruises. Fix them up with a little quick repair gum, and you will find them giving twice the mileage they would have given if neglected.

### Kerosene and Gasoline.

It is apparent that the autoist must in the future pay more money for gasoline than he has in the past. This will not deter the purchase, however, of gasoline by those who have gasoline cars. The smell of gasoline cannot be satisfied by any other thing, and it will be bought, regardless of the price. By distillation of crude petroleum, kerosene to the amount of 30 per cent of the crude product is obtained. Of the kerosene 1 1/2 to 2 per cent is gasoline. It is no surprise, then, that as consumption of gasoline increases the cost should advance. It is apparent, also, that kerosene must become the more widely used fuel and engineers are spending much time and energy in developing practical means for the use of kerosene as fuel. Gasoline has a specific gravity of 65 to 72 and a flashing point of 40 to 70. The specific gravity of kerosene is 90 and the flashing point 100 to 160. The flashing point is the temperature at which it gives off an ignitable vapor. Large engines are now operated on kerosene, being switched after starting on gasoline. It can be used only after the engine has become hot. Heat, being the essential requirement, it is certain that in a short time, appliances will be evolved whereby kerosene will become the autoist's principal fuel.

### Gasoline Storage.

The advance in gasoline prices, when sold in 8 to 10-gallon lots, has caused many an auto owner to figure on buying gasoline in larger quantities—say, by the barrel—and thereby save 3 to 4 cents per gallon. The auto owner is justified by buying gasoline by the barrel. It will pay him to do so. The money saved will go a long way toward the maintenance of the automobile. Farm owners of automobiles can store gasoline in quantities in any manner they may elect. This is not so, however, with the city owner because he has ordinances to consider and must comply with the city regulations, which necessitates the underground storage tank. Several advantages of the underground tank will appear to the farm owner. When stored in these tanks, the gasoline does not evaporate and the volatile gasses are conserved. The gasoline is held at more nearly an even temperature, which is good for it. The safety of underground tanks is also a feature worth consideration. Gasoline stored in barrels with a faucet in the barrel, is not unusual on many farms, but it is not a safe method. We know that the auto owner will remark that after purchasing his machine he can spend as much as the first cost of the machine if he so desires, in arranging for the proper care of the machine, for the purchase of convenient and even necessary accessories, but it does seem that in the interest of economy and in providing a supply of efficient fuel, that the underground storage tank is an investment worth while.

The Governor of Montana has established a quarantine against horses from Kansas. It is safe to say that Montana's Governor is not posted on the peculiarities of the so-called Kansas horse plague. There is no necessity for any neighboring state quarantining against Kansas to prevent the spread of the plague, for the reason that the best authorities agree it is not a contagious disease.

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# KANSAS FARMER

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

Published weekly at 625 Jackson St., Topeka, Kan., by THE KANSAS FARMER COMPANY.  
ALBERT T. REID, President, JOHN R. MULVANEY, Treasurer, S. H. FITCHER, Secretary.

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

CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Inc., Manager.  
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**LIVE STOCK INSURANCE.**

The loss of hogs by cholera last year, followed by the horse epidemic this summer and fall, has served to call attention to the risk the farmer at all times carries. To shed some light on how the farmer could protect himself, led us to make observations last week regarding the kind of insurance of which he can avail himself if he so desires.

Life insurance is written on all kinds of farm live stock except hogs. Such insurance has been written for 25 years. During that time dozens of live stock companies have failed—failure due to writing insurance at rates too low to maintain the company. Life insurance for live stock, like that on humans, cannot be carried for less than it costs for protection. Those insurance companies which have weathered the experimental stage of live stock insurance are those which have charged a rate sufficient to make the business self-supporting and actually insure. Speaking with a KANSAS FARMER reader recently on this subject, he remarked that rates on live stock were too high to justify insurance. It will be seen from the failure of companies handling this insurance above, that rates must be high enough to pay the losses. Cheap insurance is the kind that fails. Insurance that does not pay losses is no insurance at all. Insurance is carried for protection. There is no protection in paying premiums alone. The loss when it occurs must be paid if the insurance is worth while.

We do not know the rates charged on all kinds of live stock. We do know that the rate is considered high by farmers generally and that insurance is for the most part carried on pure-bred and valuable breeding stock. The rate is \$10 per hundred of valuation on draft stallions, insurable for two-thirds of their value, \$1,000 being the maximum. This information comes by way of a farmers' stallion company, which company has its stallion insured and the secretary of which company says that practically all horse companies carry such insurance. A large user of mules advises that he pays \$8 per hundred, and that the insurance limit is two-thirds the value. He says also that the age limit is 12 years. He thinks it worth while to keep his mules insured, and the insurance he carries protects these animals against death from any cause.

Registered cows and bulls are insurable at \$8 per hundred, with a maximum insurance limit of \$300 on the former and \$500 on the latter, and that the rate is \$1 per year less than the rate here given if protection against fire or lightning is not wanted. Work horses, milk cows and stock cattle are insurable at a lesser rate than pure-bred animals. Hogs are not insurable.

This gives some idea of the terms on which live stock can be insured, and it will be seen from the above that an average cost of about 2 cents per day per animal will take care of the best and most valuable farm live stock against death from any cause—fire, lightning, cyclones, disease or accident.

In considering the high cost of living, how many are there who think about, or even know, that the cost to them of their newspapers and periodicals have not increased? Current literature is a necessity of modern life, and a change in its cost would probably serve to deprive many families of their reading matter which would be a most severe loss. In spite of the increased cost of print paper, ink and labor, KANSAS FARMER continues to go to its subscribers at the same old price.

The low down manure spreader is an evidence of the eagerness of the manufacturers to devise the most handy and labor saving machinery. The low down spreader makes the work of loading manure at least a half easier. The excuse for failure to apply the manure to the field is growing weaker and weaker each year.

**WHEAT CROP 1913.**

Reports indicate that the 1913 wheat crop has been seeded under most favorable conditions, frequent and abundant rains having placed the ground generally in the most excellent condition. Unfavorable conditions for early plowing necessitated much late plowing, but the early fall rains have in a large measure, if not entirely, offset the disadvantages of late plowing. The excellent stands and the uniformity of germination seen in fields generally indicate the favorable condition of seeding.

Reports from the eastern two-thirds of Kansas indicate that the acreage is fully as large as last year. Some localities report an increased acreage. The horse epidemic has affected the wheat acreage little or not at all in this section.

In the western one-third of Kansas reports are not definite as to the probable acreage. The indications are that in some localities the acreage will be equal to that of last year, while in other sections it will not be so great. It is too early to know just what the 1913 wheat acreage of western Kansas will be. The ground is reported in good condition and favorable to continued late sowing. Much wheat is sown in that section as late as Thanksgiving, and some is sown later.

The co-operative spirit which KANSAS FARMER a few weeks ago said would prevail among western farmers in the horse epidemic stricken districts, has been manifested. The papers of the stricken counties contain numerous notices to the effect that farmers who have horses and mules which escaped the epidemic, are hurrying through with their own work and are offering the use of teams, free of cost, to those unfortunate farmers who have lost their work stock. These papers report that plowing and wheat seeding is being pushed with a vengeance.

**CERTAIN FORAGE AND GRAIN.**

Numerous times we have expressed the belief that Kansas farmers were jeopardizing their best interests in not giving more attention to the planting of Kafir, cane and Milo. The more we travel through Kansas the more we are convinced that the conclusion already expressed in this regard is of greater importance than we had before realized and much more important than farmers in general believe. In all parts of Kansas at this writing can be seen fields of Kafir which will yield 20 to 30 bushels of grain per acre, these fields growing by the side of corn which will yield in many instances less than one-half as much, and in many instances where corn is a failure Kafir will yield well.

Outside of a few localities in the state where the value of Kafir is recognized, the Kafir fields are small and evidently were planted with the expectation that the Kafir would not amount to anything. At any rate many Kansas fields were not planted with any idea of the same being an important factor in the farm plans and prosperity.

We believe that 10 to 15 acres of Kafir, planted in drills as corn is planted and well cultivated, will make the quarter section farmer almost independent of drouth. It will yield the grain and the forage needed to take the stock through the winter in good shape when all other forage and grain crops have failed. Unless the farmer has plenty of alfalfa and ideal corn land he cannot afford to overlook Kafir, cane and Milo. In the eastern third of Kansas Kafir is preferable to either cane or Milo for both grain and forage. In the western third Milo for grain and cane for forage are best adapted.

Thousands of Kansas farmers will this year select seed corn from the fields. They know the advantages of so doing. What have you done?

**THE SHORT LEASE.**

Perhaps few people realize that one of the effects of the "back-to-the-land" movement has been very harmful to all interests. There are others, such as inducing city people, wholly without knowledge or experience of things agricultural, to attempt to make a living on the farm, but none so bad as that which has caused the investment of city capital in farm lands which must be either handled by tenants or allowed to stand idle for a speculative raise in price. If this land is handled by tenants they are almost universally placed on short time leases, as the land is rented subject to sale, and their management is, of necessity, detrimental. If this land is allowed to lie idle it is so much withdrawn from cultivation and conduces to the high cost of living.

Now, the ownership of land is to be encouraged as among the safest of investments, and city people who have spare cash are not to be blamed for putting it into land. But this land should be made productive for the good of all, and any system of leasing which robs the soil and leaves the farm poorer with each succeeding year, not only hurts the financial interests of both landlord and tenant, but hurts the nation, as well.

The responsibility for a wrecked soil, which is too often found in some of the older parts of this new country, rests in the shortsighted policy of the landlord who insists upon short time leases.

**HAM AND BACON SHOW.**

We had not heard of a "ham and bacon" show until we read that one is to be held at Columbia, Mo., January 13-17, and so well we think of the idea that this is notice to President Waters, of Kansas Agricultural College, that he should hold such a show this year during farmers' week at his institution. Missouri offers premiums of \$100 in gold for the best home-cured country ham and-bacon. The object is to stimulate interest in the curing of ham and bacon on the farm and to demonstrate how thoroughly Missourians have mastered the mysteries of meat making.

Every legitimate means possible should be employed to revive the country smoke-house. Kansans know how to cure good meat and many of them have it, although we are sure that the number grows less and less each year. Farmers have gotten away from butchering and curing meat. Many of them are not growing their own potatoes, tomatoes, sweet corn, fruit, etc. They have gotten into the habit of living out of the butcher shops and grocery stores. We believe that it is expensive to buy from the butcher shop and grocery those things that can be produced and prepared on the farm, and we know that, generally speaking, the farm quality is superior. There is much better eating from the farmer's pork barrel and poultry than can be had from the shelves of the town store. The highest praise that can be given to any packing house product is that it "tastes like a country ham," and the whole list of store goods is claimed to be "as good as the country make."

In Kansas we need a campaign that will result in every farmer killing and curing his own pork and growing, so far as possible, those things needed to supply his table.

A new agricultural publication, the first number of which was circulated the latter part of August, is the South-west Farmer, Hutchinson, Kan. Ike Lambert is the general manager, and John L. Lovett is editor. These gentlemen, with strong hearts and high ideals, set about to establish this publication in the homes of Kansas farmers generally. Here's hoping they succeed.

The man who gets along without work is making somebody's back ache.

**KAFIR AND FROST.**

Throughout Kansas hundreds of acres of immature Kafir have been caught by the recent frosts, and the yield and quality of grain much reduced thereby. The greater part of the damaged frost-bitten Kafir was that late planted. This is some evidence that in Kansas we do not plant Kafir sufficiently early. Not attaching to Kafir the importance of dependence for a grain crop, the custom is to delay Kafir planting until all other spring planting is done. This has the effect of the Kafir maturing late in the fall and taking long chances on its being frosted before maturity.

It is useless to plant Kafir in the spring when the ground is wet and cold. So to do will most likely result in the loss of the seed and necessitate re-planting. The seasonal conditions, therefore, must to a great extent control the planting of Kafir. However, when conditions are favorable, the Kafir should at once be planted. If the crop is worth growing it is certainly worth consideration as to its habits. Early planting will result in maturity before frost. No farmer would think of planting a slow maturing variety of corn—a variety so slow in maturing that it would not be out of the way of frost by September 15. The same consideration and the same chance should be given Kafir as the corn crop.

In this connection it is desirable to plant early maturing varieties of Kafir. We believe red Kafir is the best for this latitude. It does not grow so large and is not such a heavy yielder as white, but it matures earlier. So we believe in red Kafir. In obtaining the seed it should be selected from the fields and the early maturing heads chosen. Kafir in this latitude and under the conditions of growth to which we subject it, becomes each year a little slower in maturing. We should exercise such means as will have the effect of offsetting this tendency. The best means, therefore, is to use seed selected with early maturity in mind and the way to get it is to select the early maturing heads from the field.

Much of the frost-bitten Kafir this year and particularly in many localities, demonstrates the peculiar adaptability of the plant to dry weather conditions. Kafir planted late in the season did not have a good start when the dry weather set in. Such Kafir remained green and in good condition waiting for rain. The late summer rains came and Kafir immediately grew and headed. While much of it did not get out of the way of the frost it made an abundant forage crop and yielded much more grain than corn did under the same seasonal conditions and the same conditions of planting. On every hand there is the evidence of Kafir being the surest grain and forage crop we have, speaking generally. It behooves the farmer who has live stock and who must have feed, to lean more strongly on Kafir, giving the plant a chance for more favorable production than he has heretofore given it.

Each day some new idea is developed in an effort to make the country school more practical and of greater use to the farm boy and girl. The latest is that of the superintendent of Adair County (Mo.) public schools, who has introduced the plan of grading pupils on the work done by them at home in helping their parents with the farm and house work. This is called industrial work, and the grading has reference thereto. Teachers each quarter send a card to children's parents to ascertain the amount of work and character of the same done by the pupils. The youngsters get credit at school for the work done at home, and grades on home work are considered by the teacher in making the final grade for promotion. The details of the plan are not known to us, but it seems that an arrangement along this line would be practical and valuable.

# ALL WORKING TOGETHER

## Individual Success Depends Upon Community Success

**E**VERY man, woman and child in Kansas is interested in the success of the farmer. Every man, woman and child in the United States is interested in and dependent upon the success of the farmer. The farmer creates new wealth, and it's upon this new wealth that the ever increasing volume of business of this country must depend.

If the farming done in a given community is poor, then the community is poor. The merchants in such a community do not thrive, and bankers barely make both ends meet, and other business men simply exist. On the other hand, if the farmers are good producers, every line of business flourishes. Each crop that is dug out of the ground each year is so much added wealth to the general stock of the community, and each individual benefits from this added wealth in proportion to his relation to the farmer and his industry in his own affairs. Good crops mean prosperous communities, good homes, good schools, good wearing apparel and a "smile that won't come off." Everybody is contented because everybody is prosperous. There is no desire on the part of the farmer to move to town or to sell out and move to another state.

Although farmers are the producers of new wealth, and this wealth is the foundation of a continued and growing prosperity, they cannot exist alone. What they produce must be distributed and consumed. It is just as necessary to have buyers for their products as it is to have the products. It is also just as necessary to have these buyers so located as to constitute a good market. The surplus of the farms may be sold in the nearby town or they may be shipped to the distant market. In either case the means of transportation is necessary. Good roads between the farm and town, and railroads to the distant market, are both necessary, and the profits which the farmer receives for his products is exactly proportioned to the quality of service rendered him by the good roads in the country and the railroads out of it. Both combine to make good markets for the farm products and with the aid of both, the farmer has the whole country for his market instead of the local town where the consumption of farm products is necessarily small. Both of these—the country road and the railroad—are the results of co-operative effort and as they are good, so the markets are good.

No community can be successful and prosperous without good producers and good buyers, and in these two classes both farmers and townsmen alike are interested. If the town is not a good market for the farmer it is not a good place for the man in town. This is another form of co-operation in which it should be true that every man living in town should be interested, not only in building the good roads which facili-

tate the delivery of farm products, but in using every other proper means to make of his town the best possible market place for the surrounding farmers. If in a grain community, ample means for handling and shipping grain should be provided. If not by individual effort then by companies or community effort. If in a live stock country, facilities for handling and shipping live stock should be of the best, and just in proportion to the excellence of these facilities will be the prosperity of the community. When the man in town is doing his full part and the farmer is doing his best, the conditions for a prosperous community are supplied, and this community will grow because these conditions will attract other citizens.

When the farmer has produced a surplus and receives cash for it from the buyer, he has money for deposit in the bank, for the improvement of his farm home, for the purchase of improved live stock, of an automobile or other necessities or comforts according to his need. The local merchant should then be prepared, either to sell such things to him

over and above the added freight rate from the factory.

In these days the farmer is a buyer of quality, and he demands advertised articles or those which have a fixed reputation for quality. If he gets the idea that he wants to buy cheap articles he can easily get them, but he should always do so with the full understanding that they will soon have to be replaced. Economy never permits of a purchase of cheap articles. It is only the very poor people who must be extravagant. People who are forehanded can buy in such quantities and at such prices that they do not reduce the merchant's profit, but they do increase their own economy. Very poor people must buy in such quantities and of such quality that they pay higher prices.

Business men everywhere are coming to see the fallacy of the old axiom that competition is the life of trade. Competition is not the life of trade. It is the death of trade. Every community, without exception, which has adopted co-operative instead of competitive methods, is a prosperous community. Prosperity

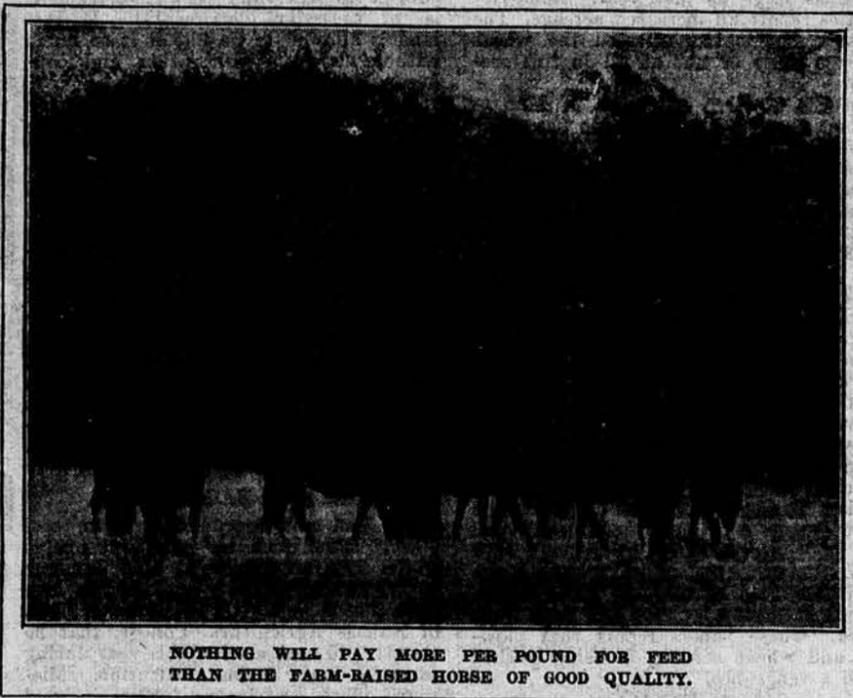
worth of dairy cattle as a result of such co-operation is surely ought to afford food for thought, and when another small community in Nebraska can show pure-bred Belgian mares on practically every farm with the community ownership of some of the best stallions ever imported from Belgium, there is reason for inquiry, as well.

The farming interests of this country are not only suffering from a shortage of live stock, but from a shortage of quality in what we do have. No great progress can be made in live stock industry under present conditions, when each man is a guide unto himself and breeds to suit his own fancy, regardless of type or quality leading to a standard. Communities must unite in the breeding of some one or more breeds of pure stock, and through the work of these communities the national welfare will be attained. Fairs and shows are very much for the pure-bred interests, perhaps more than any other single thing, but they reach with their lessons only a relatively small portion of the people who should be interested.

Granges and other associations of people having a community of interest, have found it profitable to co-operate in the purchase of coal, salt, staple groceries, etc., and, in a few cases, in the selling of farm products, but in very few cases have they carried the matter far enough to reap any very rich reward.

What I mean is best shown by the results obtained at Norfolk, Neb., where the Commercial Club has imported carload after carload of Belgian mares and sold them to the farmers at actual cost. The club also imported several stallions of the best, and these are available to the mare owners at a merely nominal fee—just enough to pay the cost of maintenance. This is co-operation. Here the farmers have imported mares, of one of the best draft breeds, for use in breeding and farm work. They have access to the best imported stallions at a nominal fee, and they have the help of the Commercial Club in selling their surplus colts. Does it pay? The club has helped the farmers towards a greater prosperity in giving them more efficient farm horses with which to do their work, and the progeny from which will sell for much more money. The club didn't make any money on this first transaction, as the mares were sold at exact cost, but they will make money "forever after" in the increased prosperity of the farmers which they helped to bring about.

This is co-operation. This is working together for the common good, and this kind of thing—the building of good roads, the development of pure-bred live stock, the encouragement of the general breeding of some one or more breeds of cattle, hogs, horses, sheep and poultry, in communities so they may become centers—is just what the Topeka Commercial Club has under way for Shawnee county, and for Kansas.



NOTHING WILL PAY MORE PER POUND FOR FEED THAN THE FARM-RAISED HORSE OF GOOD QUALITY.

outright, or to get them for him quicker than he can get them himself, and thus induce the farmer to spend his money at home.

Most standard articles that the farmer will need, from separators to single-trees, are thoroughly advertised and have a fixed price in any community in the United States. The enterprising local merchant will be able to furnish all these at a reasonable profit to himself and with no excess cost to the farmer

fairly oozes out of co-operative efforts when rightly directed, while it only singles out a few who make money but do not prosper under competitive methods.

No better illustration of the splendid results which follow co-operative methods could be found than is shown in the community breeding of pure-bred live stock. When one small community in Wisconsin can show an annual shipment of approximately a half million dollars

## The Horse as a Side Line

**T**HAT "any fool can farm" is no longer true, if it ever was. The man who farms and gets anywhere with it is very far removed from being a fool. He must put brains and training into his work, and if he does not have these he must get them, and the sooner he does it the better for him and his neighborhood. The people make the neighborhood, and each one does his part. He either builds up or tears down. He is active for good or inactive to the hurt of himself and his neighbors. There is no middle ground. He must either succeed or fail as a man, and one of the chief factors in success lies in his financial well being.

To the man who is not at least fairly successful in a financial way the sun does not shine in the same way, and cheerfulness comes hard. He feels yellow and looks blue.

The raising of crops alone does not always make the living, pay running expenses and build the bank balance as rapidly as desirable. It is upon side lines and economies that the farmer who really gets rich depends for the "velvet" to store away in the bank vault. In one case it may be in cheaper methods of production, while in another it may be

in the production of a little bigger yields to the acre or in the raising of a greater variety of money-making crops of grain, grass or live stock. Let the farming operations proper provide for every expense and all the profits possible, and then have some side lines for bank balance builders, and to do this there is absolutely nothing anywhere that will equal live stock.

Live stock supplies a market for home grown roughness and brings cash for much that would otherwise be waste. It rejuvenates the soil and makes it possible to farm the same land for centuries instead of generations, as is our present practice. It multiplies into a marketable commodity for which there is always a ready sale and a good price. Live stock and its products will never be as cheap as they have been, and they will probably become increasingly more costly. The man who has live stock for sale each year, at such prices as have recently prevailed and will continue to prevail, will always get ahead or have the means of doing so. His farm will be richer and his bank account larger by reason of their presence. In fact no man who practices general farming, as usually understood in the corn belt states,

will do himself the justice that he should do if he undertakes to farm without live stock. It may take the form of dairy cattle, and prosperity always follows in the train of a well managed dairy herd. Many would prefer beef, and to them the prospects never were so bright. Others like the hog, and he has demonstrated for many years that he is a wonderful mortgage lifter and bank balance builder. There are yet others who prefer the horse.

It may sound odd to urge the increase of breeding horses on every farm, in view of the fact that the prairie states have just passed through the worst period of disaster from horse disease that has ever been experienced, and yet the fact remains that the farmers must have horses, and that this very calamity which has visited the western states this fall with such dire results will of itself create a bigger market for these forms of farm motors.

It may also sound odd to consider the horse as a side line, but this is correct except on such farms as are devoted mainly to the breeding of horses. The farm horse is the motor without which modern farm operations cannot be successfully conducted. His place may be

taken with great economy and advantage by the various forms of mechanical tractors in many operations and localities, but there will always be a useful and important place on the farm for the horse. Instead of the automobile and the farm tractor supplanting the horse for farm and road work, the reverse seems to be true, and good horses have never commanded such prices as they now do, while prospects for the future indicate that these prices are not likely to go any lower. In the event of a great war or of another epidemic of widespread influence, the prices may go even higher. The motor has put the poor horse out of business more or less, and the demand now and hereafter will be for good horses of whatever kind.

When one considers the comparative ease with which good colts can be raised on the farm, it is really astonishing that more farmers do not give attention to this very profitable side line. Instead of mules, geldings or inferior mares, the farmer could substitute draft mares of high grade or pure breeding, and from these he could depend upon a profit of a hundred dollars or more each year, while the mare would make another

(Continued on page 16)

# THE GOOD SEED BED



Figure 1—Uncut Corn Stalks Cause Many Air Spaces.



Figure 2—Even Thorough Disking After Plowing Doesn't Fill All Air Spaces.

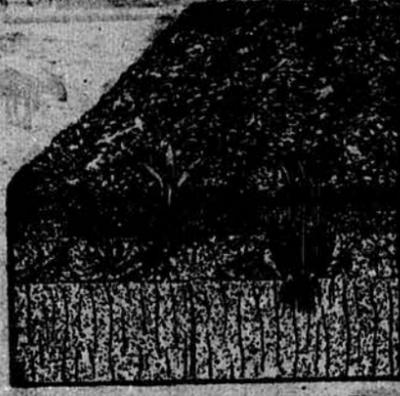


Figure 3—Note Air Spaces Due to Plowing Before Disking.



Figure 4—A Properly Prepared Seed Bed Disked Before Plowing.

MEANS MUCH IN YIELD AND PROFIT—LARGELY DETERMINES GERMINATION AND AVAILABLE MOISTURE—SAVES MUCH CULTIVATION DURING GROWING SEASON.

By C. A. BACON

THERE has been so much written and said about plant growth, that the average mind wonders how much to believe and how much to disbelieve. A scientist tries a series of experiments that prove successful in one locality, the farmer tries them in another and meets with dismal failure. The farmer discredits the scientist. He puts his experiences against the experimenter, and goes on farming in his own way. There are, however, a number of principles concerning the germination of seeds that are not open to differences of opinion. If these are known and diligently followed, better crops will be the reward.

Germinating seeds must of necessity have water, air and a certain amount of heat. The rapidity of germination depends entirely on how these elements are provided. It naturally follows from this that the seed must be planted at the right depth to secure the conditions necessary for germination. The soil is warmer nearer the surface than it is deeper, but it is also dryer. This being a fact under ordinary conditions, the deeper the seed is planted, the longer it takes to germinate. If the farmer prepares his seed bed in the manner that the great majority of farmers do, he must, before planting, take into consideration the amount of moisture that he has in the soil, the way his seed bed has been prepared, and prophecy to a greater or lesser extent the amount of rainfall the season will have. This sort of procedure is guesswork at best.

The manner in which the seed bed is prepared has everything to do with the proper germination and growth of the plant. Suppose the corn stalks are left standing in the fall and stock are turned into the field to winter. In the spring the ground is covered with corn stalks. If the average farm practice is followed, the corn stalks are broken down and plowed under, then the ground is harrowed with a peg-tooth harrow once or twice, and the seed planted.

Illustration No. 1 shows a seed bed which has been prepared in this manner. The reader will observe the pile of corn stalks that was left by the man who harrowed the field when he cleared a section of the harrow, the air space left at the bottom of the furrow by the corn stalk and corn stalk roots, also the wheat plant and the hill of corn. He will also notice

in the field the seed would probably be deposited at the right depth and grow into a healthy plant. But there is nothing sure about it.

This is one reason why a stand of corn is so uneven on seed beds prepared in this manner. Of course, there are other reasons why this difference will appear. The one next to the irregular depth of planting is that the corn stalks and trash are the best places in the world for the hatching of insects which entirely eat away the plant or injure it. The stalks hinder cultivation and are of small value as fertilizers when left in this condition. This much is true in the period of germination and early plant growth.

If the season happens to be dry, these air spaces will prevent proper capillary connection with the sub-surface. The corn stalks and roots buried in the ground will be harboring places for insects that are common to any locality. It means that just at the time when the plants need moisture to mature the grain they will not get it, and as a

consequence there will be a poor crop.

Suppose the spring is late, as it was in some localities this year. The farmer thinks he must plow his ground hurriedly in order to get his crop in. Does he gain anything by this method? Assume that he is planting corn. When the ground is plowed in this manner it is cold and cloddy. He has to plant his corn deeper than he wants to in order to get the planter to cover it. Since the ground becomes increasingly colder the farther it is from the surface, it takes the corn longer to germinate and longer to break through the ground, than it would if the farmer had prepared his ground better. When it comes to cultivation he loses time, pulls up a great deal of corn, and has an uneven stand to work. He has hurriedly prepared his seed bed and planted his corn, but waits for it to grow, has trouble all through the cultivation and raises a poor crop because he was in a big hurry to plant his corn.

It is a matter of history in corn growing districts that nature practically al-

ways provides a season long enough to raise a crop of corn, consequently the scare caused by a late spring does irreparable harm. The farmer had much better spend the extra time that he is waiting for the corn to grow in the further preparation of the seed bed. The time spent in working the ground gives the sun and air a chance to warm it, and make a more compact seed bed. This is necessary if the seed is weak, and a great help to strong seed.

Illustration No. 2 shows corn stalk ground which was plowed, disked and harrowed with a smoothing harrow. While this leaves the ground in a little better condition on the surface, the same trouble at the bottom of the seed bed will be experienced as that which exists when the seed bed is prepared as shown in illustration No. 1. The same corn stalks are there to give trouble. The main difference is that a deeper mulch has been prepared on the surface, and such a seed bed will probably stand the drouth somewhat better.

One of the great troubles with a seed bed of this kind, particularly with reference to the smaller grains, is that germination being slower a greater length of time is required for the stem to reach the surface, and then when it gets to the proper stage for growth, a new set of roots form at the place where air, moisture and heat are present in the right proportions. This is the point where the complete system of roots is formed. The lower roots which started from the seed wither and die. Time is required for this change to take place. And it happens before the plant can grow. All this shows the great importance of planting the seed the right depth. Planting the seed the right depth depends absolutely upon a seed bed prepared in the right manner.

Illustration No. 3 shows a stubble ground plowed in the spring and hastily prepared by disking and harrowing. Naturally this ground compacts more readily than the corn stalk ground. It does not have the trash to interfere with cultivation, nor does it breed insect pests, but the same trouble at the bottom of the seed bed exists here, as it does in the corn stalk ground.

Illustration No. 4 represents a corn stalk field disked and cross disked before plowing, and then harrowed. This ground compacts readily and easily, making a warm, moist, firm seed bed for any kind of a crop. With the bottom of the bed prepared properly the farmer can plant his seed at the right depth and feel sure that it is being deposited in the ground just where it ought to be. He can figure more nearly on what the season will bring forth because the seed bed is in the proper condition to resist excessive drouth or rains. In this seed bed the stalks have been cut into small pieces, they do not interfere with the compactness of the seed bed, capillarity nor cultivation. There will be no danger of a second set of roots forming, if the seed is planted at the right depth. Germination will take place in the quickest time and the shoots will develop into a healthy plant.

Just how the farmer should go about to put his seed bed in this condition he can best judge. He can readily see the difference in the bottoms of the seed beds, and no man can tell him how to prepare best his particular ground. He must decide the matter for himself. The important thing to do is to get the bottom of the seed bed compact so that good connections are made with the sub-surface.

## FOR FARM BOYS AND GIRLS



WHAT three factors—each of which is within control of the farmer—influences a good corn yield?

Should seed corn, Kafir, cane or Milo be selected from the field or bin, and why?

What are the advantages in planting large seeds?

In what respect are wheat growers able to take effective measures against damage to this wheat crop from the Hessian fly?

Where do the greater percentage of chinch bugs winter?

What are effective means of combating chinch bug damage?

Do you think it worth while to clean up the farm, with a view to destroying all insect pests?

The average per cent of butter fat contained in cream sold to Kansas creameries during the years 1909 to 1911 and the farmer profitably separate

if butter was made in creameries in Kansas in 1911?

Why does Iowa have more than Kansas?

Why is roughage so grown on the farm, and why?

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These questions found in KANSAS FARMER November 28 and October 5.

Answers after October 27 will be considered. KANSAS FARMER beginning November 12 will give reference in answering questions.

J. A. Borman

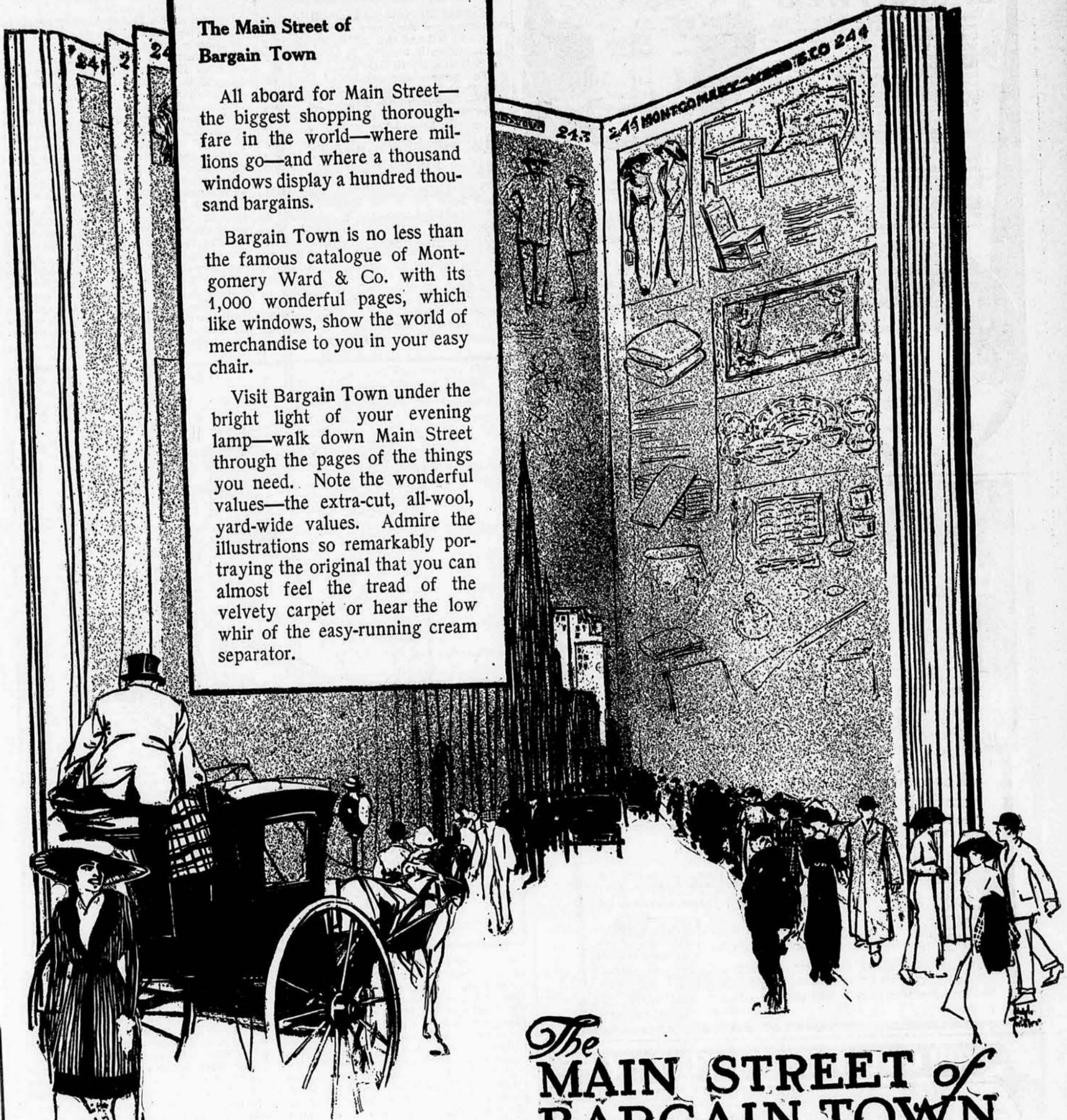


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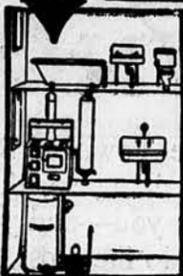
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# HEATING THE HOME

## The Effect of the Chimney on Heating—Proper Construction

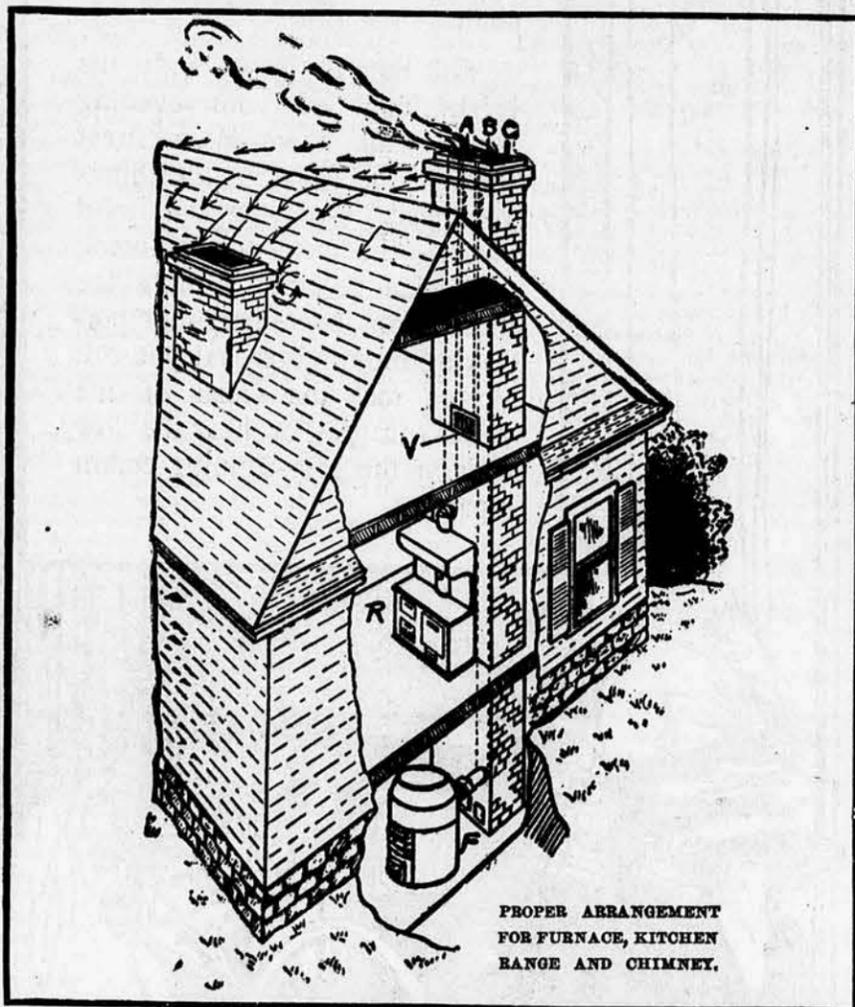
KANSAS FARMER readers will be constructing new residences during the summer and fall and this article on chimney construction is timely. It is written by E. S. Keene, North Dakota:

The successful operation of the heating plant is the most important feature in the comfort of the home. No matter what type of heating plant is used to warm the house—hot water, steam or hot air—the success of the furnace, to produce the desired amount of heat, depends in the greatest degree on the chimney.

The chimney furnishes the draft which feeds air to the furnace, and unless a sufficient draft is supplied, a sluggish and wasteful fire will be the result. The strength of the draft is generated by the height of the chimney, but the volume of passing air will depend on the area of the flue as well as its height. A chimney may produce a strong draft, but unless the flue is large enough in area to cause sufficient volume of air to be drawn through the furnace, a poor fire will be maintained. A good

prepared expressly for chimney construction. The joints of the chimney should be closely made and tightly cemented. There should be no crevices between the blocks. The mortar joints must not be allowed to project into the flue, because they will retard the flow of the gases. If the stack is made of brick, the walls should have a thickness of two courses of brick, and the inside should be plastered straight and smooth.

It frequently happens that one chimney may be constructed with two or more flues that will accommodate the entire house. The chimney thus arranged is cheaper to construct and more efficient than where separate stacks are made for each flue. The figure shows such a chimney of three flues designed to accommodate the kitchen range R, and the furnace F, in the outside flues marked A and B, while the middle flue, marked V, supplied a means for ventilation. The middle flue being kept warm by those on the outside, furnishes a better draft because of the higher temperature. Openings are made into the flue



PROPER ARRANGEMENT FOR FURNACE, KITCHEN RANGE AND CHIMNEY.

furnace fire demands a strong draft and an ample supply of air.

Good engineering practice has shown that in house heating the average dwelling demands a chimney flue for the furnace of 8 inches by 12 inches in area for a rectangular flue, or 9 inches to 10 inches for one that is circular. The chimney should extend well above the highest part of the building, and in case other buildings or tall trees are near, it should be located with reference to the prevailing winds, which may cause eddies, and thus produce a down-draft in the flue. Sometimes movable cowl (usually made of sheet iron) will be required to avoid eddies produced from causes which cannot be removed.

The furnace flue should run as nearly straight as possible from the base to the top of the chimney and should have no other openings except that of the furnace smokepipe. Offsets or bends of any kind in the flue, retard the freedom of the ascending column of gas and thus reduce the draft of the furnace. The top of the chimney should not be capped in any way that will reduce the area of the flue.

The best flue is that of cylindrical form, in that it forms the easiest and most natural escape for the chimney gases. In such a flue the spiral ascent of the gases are in no way interfered with, as in the case of the rectangular form, and this for a given area, the cylindrical flue gives the best service. Cylindrical flues are commonly made of "round tile" or cement blocks that are

from the various apartments, such as that on the upper floor, marked V, and into which is discharged the air from near the floor. This is one of the few possible methods of natural ventilation, and when used in connection with some means of admitting air into the building, gives very satisfactory results.

The short chimney in the figure shows the effect of the wind as it passes over the ridge of the roof and why the draft in such a chimney is retarded whenever this condition exists. The force of the wind, as it comes in contact with the roof, causes a compression of the air on the windward side and a rarification on the lee side. This inequality of pressure causes a downward sweep of the wind as indicated by the arrows. The effect on the low chimney is to cause a retardation of the draft and sometimes the pressure is great enough to reverse the action of the flue and force the smoke into the house. The only remedy for such a condition is an extension to the chimney that will raise its top above the ridge.

In a construction, such as the large chimney of the figure, soot pockets should be tight and free from air leaks. The smoke pipe from the furnace should not extend into the flue beyond its inner surface, because it will reduce the area of the flue and thus retard the draft. The space around the smoke pipe where it enters the chimney should be made tight with mortar or stove putty. The smoke pipe should be kept free from accumulating soot.

**Alfalfa Mills of Little Value**

KANSAS FARMER has long contended that the alfalfa mill was a menace to the community in which it was established provided the mill has the effect of causing farmers to sell alfalfa through the mill instead of feeding what they need of it to their live stock. We have observed community after community in which the alfalfa hay produced was sold to the mill while the live stock on the farm was compelled to exist on a minimum quantity of comparatively poor feed. Along this line the comment of J. H. Miller, Superintendent Kansas Agricultural College Extension, is interesting:

"Wherever these mills have been established there has been a very rapid falling off of all live stock interests. Towns that before the establishment of the mill shipped hundreds of fat cattle are now shipping alfalfa hay and shipping corn and these things will ruin any county from the standpoint of soil fertility. Your county does not raise enough cattle now and if a mill were established scores of farmers would sell their alfalfa hay to the mill and would quit fattening cattle. We have opposed the building of alfalfa mills in every part of the state and we believe we are right. We want this alfalfa fed to cattle, horses, etc.

"An alfalfa mill adds practically nothing to the town, as it only takes two or three men to handle a mill of pretty good capacity and then only for a few months of the year, whereas if all that alfalfa were fed to cattle, hogs, and horses, there would be the gain to the farmer of feeding the stuff on the farm, and the farmer would actually get more money for his hay put into stock than he would get for it at the mill.

"Your county does not grow half enough alfalfa, and it ought to feed all it can possibly raise. The selling of alfalfa hay constantly will deplete the land of mineral matter as rapidly as wheat depletes it of all nitrogen. I hope, therefore, that you will not give any encouragement to the establishment of an alfalfa mill in your county, as I believe it will do more harm than it can possibly do good. The biggest thing you can do in your community, in my judgment, is to build up the live stock interests and urge everybody to grow more Kafir and more alfalfa, and raise more cattle, horses, mules, hogs, or sheep."

**Cost and Use of Machinery**

In thinking over the matter we find that one of the drawbacks on the farm is through the ever-present leakage or expense caused by the use of and decrease in value of farm machinery.

In the first place, the cost of the average farmer's machinery and equipment is greater in proportion to the time actually in use and the amount of work done than that used in any other business.

Here is a list of machinery used on an average farm, with prices of same. While there may be articles on this list that are not found on some farms, yet there are others necessary that have not been included, so that for comparison the following list and cost will be nearly right:

1 Drag.....	20.00
1 Drill.....	125.00
1 Disc.....	35.00
1 Gang plow.....	60.00
1 Stubble plow.....	15.00
1 Corn planter.....	45.00
2 Corn plows.....	55.00
1 Mower.....	45.00
1 Rake.....	20.00
1 Binder.....	135.00
2 Wagons.....	135.00
2 Hay racks.....	25.00
1 Manure spreader.....	125.00
1 Cream separator.....	80.00
1 Fanning mill.....	25.00
1 Feed mill.....	30.00
Minor articles.....	25.00

Total.....\$1,000.00  
From this it will be seen that the farmer has machinery worth at first cost about a thousand dollars. The most expensive machines, such as the drill, the mower and the binder, are not in actual use more than a few days in the year. While the first cost is large, it is made greater every year by the cost of repairs and keeping the machinery in good running order. Where the machinery is not properly housed and attended to, the average life of such will not be more than five years. Thus we see that it costs \$200 per year with repairs additional for the machinery necessary to do this work. With proper care and housing, the life of farm machinery can be extended to ten years or more, thus making a material saving of over \$100 a year.

**No-Rim-Cut Tires 10 Per Cent Oversize**

**Made for Winter with Double-Thick, Non-Skid Treads**

The whole tire situation has been changed by the advent of No-Rim-Cut tires. Now they far outsell all others. And our factory output of 100,000 tires monthly cannot keep pace with demand.

Last year we brought out another invention—the ideal Non-Skid tread. It has given to tire users, for the first time, an efficient, enduring Non-Skid. Note these facts about it.

**A Tread with a Bulldog Grip**

This is an extra tread, about as thick as the regular. It is vulcanized on to the Goodyear tire, thus giving a double-thick tread.

This extra tread is of very tough rubber, immensely wear-resisting. So the non-skid feature lasts as long as an ordinary tire.

It is so thick and so tough that puncture danger is reduced to almost nothing.

**Deep-Cut Blocks**

The blocks are deep-cut and enduring. They present to the road surface countless edges and angles.

In every direction they effect an almost irresistible grip.

Each of these blocks widens out

at the base, so the strain is distributed just the same as with smooth-tread tires. That is a feature which other makers have widely overlooked.

**You Can See the Advantages**

You can see at a glance the many advantages. And tens of thousands of users have proved them.

Just make a comparison with other treads which purport to be non-skids.

Note the bulldog grip. Note the endurance. Note how the strain is distributed

This is finality, in our estimation,

in the way of a non-skid tread.

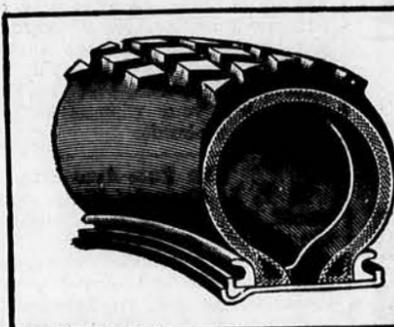
**On the Perfect Tire**

These treads now come on No-Rim-Cut tires, for any man who wants them.

These tires that can't rim-cut—these oversize tires—are now the most popular tires in existence. They are used, perhaps, on 250,000 cars to cut tire bills in two.

For winter use get the Non-Skid treads, to wipe out the danger of skidding. And for safety on slippery hills.

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



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

**THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio**  
Branches and Agencies in 103 Principal Cities More Service Stations Than Any Other Tire  
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits (843)

**"PITTSBURGH PERFECT" FENCE**  
WELDED BY ELECTRICITY

A tough, strong, reliable fence, that can be depended upon in any emergency. The electrically welded joints produce a one-piece fabric which resists jolts, jars and strains with its whole surface. "Pittsburgh Perfect" Fence excels all others in strength, durability and economy, is easiest to erect, and is perfectly adjusted to uneven ground without trouble or loss of efficiency.

The present day "Pittsburgh Perfect" Fence is made exclusively of special Open Hearth wire, into the texture of which is worked a newly-discovered ingredient that preserves the wire many years longer than ever before, because it resists the destructive influences of corrosion clear through from skin to core. Also coated with pure zinc surface galvanizing.

**EVERY ROD GUARANTEED PERFECT**

Write for full particulars of this latest improvement in fence manufacturing, found only in "Pittsburgh Perfect" Fences, together with catalogue, showing styles for every FIELD, FARM, RANCH, LAWN, CHICKEN, POULTRY and RABBIT YARD and GARDEN; or, better still, SEE YOUR DEALER.

**PITTSBURGH STEEL CO., PITTSBURGH, PA.**  
Makers of "Pittsburgh Perfect" Brands of Barbed Wire; Hard Spring Coil Wire; Bright, Annealed and Galvanized Wire; Twisted Cable Wire; Fence Staples; Poultry Netting Staples; Standard Wire Nails; Galvanized Wire Nails; Large Head Roofing Nails; "Pittsburgh Perfect" Fencing.

# FREE Style and Bargain Book NOW

Madame, you need this big, beautiful "NATIONAL" Style Book—you ought to have it, because it saves you money—send a postal and it's YOURS Free. It's filled with many, many beautiful pictures and news of up-to-date fashions and brimful with bargains:

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| Waists, . . . 69 cents to \$6.98         | Hats, . . . \$1.49 to \$9.98                      |
| Shirts, . . . \$2.98 to \$9.98           | Ladies' Ready-Made Suits, . . . \$9.98 to \$17.98 |
| Ladies' Coats, . . . \$6.75 to \$29.75   | Misses' & Junior Suits, \$8.98 to \$15.98         |
| Ladies' Dresses, . . . \$7.98 to \$17.98 | Raincoats, . . . \$4.98 to \$11.98                |
| Furs, . . . \$1.95 to \$18.57            |   |

Also a full line of Underwear, Hosiery, Scarfs, Veils, Gloves, Sweaters, Leather Goods, Jewelry and a complete line of Boys', Misses', and Children's Wearing Apparel.

**"NATIONAL" Tailored Suits**  
Made to Measure \$10.95 to \$35 Samples of Materials Sent Free



Each Made-to-Measure Suit is actually cut and made to order. We guarantee each suit to be perfectly satisfactory in every way, or we will cheerfully refund your money.

**The "NATIONAL" Policy:** We prepay post-charges on all our goods to any part of the United States. You may return any "NATIONAL" garment not satisfactory to you and we will refund your money and pay express charges both ways.

In writing for your Style Book, be sure to state whether you desire samples of materials used for "NATIONAL" Made-to-Measure Tailored Suits. Samples sent gladly when asked for. Write now for the FREE Book before you forget.

**National Cloak & Suit Co.**  
257 West 24th St. New York City  
Mail Orders Only—No Agents—No Branches

# THE FARM



**Sheep Profitable.**  
A farmer writes in an exchange that by keeping enough sheep in his grain fields to pick up the wasted grain and eat the weed seed, the increase in weight of sheep is enough to pay for plowing and planting the field to the next crop.

**Value of Exchanging Ideas.**  
It is beneficial always to meet fellows engaged in your vocation and swap yarns with them. An interchange of ideas and thoughts in every vocation has proven valuable. Papers and books do not take the place of friendly visits. Farmers can well afford to visit at each other's homes and know what is going on on each other's farms. They can afford to meet at the farmers' institutes, too. The exchange of ideas resulting cannot help but be of value.

**Old Reliable Protects Readers.**  
One of KANSAS FARMER readers who had trouble with an advertiser using these columns last spring, writes this letter after we had obtained for him an adjustment: "Your letter with check enclosed, received. I am obliged to you for your trouble in collecting the amount for me. KANSAS FARMER is no strange paper in my neighborhood. I will also tell my friends that KANSAS FARMER will do as they advertise; that is, see that their readers will not lose by buying of firms that have ads in their paper."—C. H. McC., Coffeyville, Kan.

**Advertising at the Fairs.**  
If you are exhibiting live stock at the fairs you expect to get some valuable advertising as well as premium money. If you do not get the advertising it is your own fault. It is a good plan to get stall cards about 4x6 inches to tack up behind each animal. This will not only save much bother answering questions, but will show the public that you are up to date. A neat sign or banner extending across two or more stalls up out of the road with the name of your herd and your postoffice will be a good advertisement also, and provide a place to display your ribbons as you swing around the circuit.

**The Pure-Bred Sire.**  
E. F. L., Cascade, Mont., writes: "I would like to add my testimony as to the value of the pure-bred sire. I bought among other common cows, five that cost me \$240 and mated them to my choice young Holstein-Friesian bull that cost me \$200. These cows had five heifer calves which I have just sold as yearlings to a Canadian buyer at \$60 per head, or \$12 per head above the average cost of their mothers. A good price for common yearling heifers hereabouts is \$20 per head. These five brought enough in excess of that figure to pay for the bull."

**Protect the Young Trees.**  
It is time to think about protecting the young trees from rabbits. In the editor's boyhood days we attempted to do this by applying various preparations to the tree trunk, but we do not recall any that were effective. Last winter we saw a young orchard in which tarred building paper, costing 60 to 75 cents per 150 feet, had been tied around the trees, affording absolute protection. Cut in strips, wrap about the tree, and tie with tarred twine. The tar is a repellent not only to rabbits, but to mice and insects, and the trunks of trees protected in this way will not be injured. This may be left on during the season if so desired. The paper may remain around the trunk for two or three years without injury.

**Silo Rightly First.**  
It is not unusual to meet a man who says that he will build a silo just as soon as he can build a barn. This is a misconceived understanding of the real situation. The silo will assist more than any other one thing in building a barn. If one has stock, he is dependent to a greater or lesser extent upon that stock for the money with which to improve the farm. The efficiency and value of the stock is more dependent upon good feed than upon any other one thing. The silo provides the best and cheapest feed, so the silo should be the first consideration from the feeding stand-

point. The silo will do more, too, than build a barn. It will result in better fields to pick up the wasted grain and in the proportion that more and better stock is kept, to just that extent will the prosperity of the farm and family be increased.

**Agricultural Communities in Canada.**  
In the government and railroad lands in Alberta and neighboring provinces in western Canada, agricultural communities will be established by young men and boys from England. This is supplementary to the immigration work now being carried on in the old country by the Dominion government and provinces. These communities will be settled by young men who have been reared on farms and who have been given a course of training in establishing agricultural schools in England. The communities will give attention to diversified farming, including dairying, live stock and poultry growing, and the government will finance the operations. The settlers are obligated to repay the indebtedness when able so to do.

**Does Not Disk Alfalfa.**  
N. E. Hanson, of the South Dakota School of Agriculture, who is rapidly becoming the best posted man in this country on alfalfa culture, does not believe in disking alfalfa. Our own investigations indicate that each year in Kansas the disk is being used less and less on alfalfa fields. Hanson says:

"We should not mutilate alfalfa plants by disking and harrowing. This is in distinct contradiction to the present recommended practice; but examination of many plants that have been split through the heart with the disk or harrow, shows they heal with difficulty, and many are black-hearted or diseased, giving free access to bacteria. The Orientals know better. An alfalfa plant should be good for at least four centuries; but this means that the heart of the plant must be held sacred."

**Big Corn Value.**  
Last year the Iowa Experiment Station pastured 16 hogs averaging 90 pounds, for a period of 180 days, upon an acre. They received in conjunction with the alfalfa pasture four pounds of grain per hundred pounds of live weight daily. The grain ration consisted of corn plus one-twentieth of meat meal. These hogs made a total gain of 3,109 pounds with an outlay of practically 10,100 pounds of shelled corn plus 617 pounds of meat meal. Counting the production cost of the crop at \$10.75 an acre, the corn at 50 cents a bushel and meat meal at \$2.50 per hundred weight, the net profit with hogs selling at \$6 was \$97.09. The \$6 hogs after all expenses were paid netted \$1.03 for every bushel of corn fed upon the alfalfa pasture.

**Destroying Grasshoppers.**  
E. E. W., Olpe, Kan., says grasshoppers are likely to take his recently sowed alfalfa and he wants formula for poison for destroying the hoppers.

One good bait for poisoning is made as follows: 400 pounds bran, 15 pounds middlings, 2 gallons syrup, 20 pounds arsenic; the whole mixture being made wet with water just to the point at which it will hold together and permit of distribution around over the field in small chunks ranging from the size of a grain of wheat to as large as a pea.

If it be possible to locate the hatching places of the young grasshoppers, millions of them can be destroyed by spraying the vegetation in front of them with paris green.

The hopperdozer is valuable in the destruction of grasshoppers, but it cannot safely be dragged over young alfalfa. However, it might be used in fields around the edges of the alfalfa.

At this season of the year the hoppers collect at night in the grass or stubble surrounding the field in which they are working, and this habit may be taken advantage of in destroying them, by spraying with kerosene emulsion or other arsenical poisons or by scattering straw along the edge of the infested fields and burning at night or early in the morning.

The deep plowing of the hatching places will cover the eggs so that the young hoppers will be unable to reach the surface.



## Cheaper Than Horses —More Dependable —Costs Nothing When Not Working

Plows 25 to 50 acres per day, costs 35 to 60 cents per acre. Double discs 60 to 75 acres per day, cost 10 to 20 cents per acre. Drills and Harrows (same time) 100 to 150 acres per day, cost 20 to 25 cents per acre. Harvests 60 to 100 acres per day, cost 20 to 30 cents per acre. Also hauling, pumping—any farm work—at lowest cost. The ONLY one-man farm power for plowing. Two men not necessary to run the Self-steering BIG FOUR

## The Big Four "30"



Pays for itself in actual saving in one to three years.

### Free Book

sent to all inquirers. Contains facts, figures and illustrations of inestimable value to every farmer. Shows just how to cut down your operating costs. Don't wait until next year to begin saving. Write for this valuable book TODAY!

- "Plowed 500 acres, cost 33 cents per acre." Chas. Rehak, Forman, N. D.
- "Thursday my boy plowed 52½ acres." Ole H. Bang, Oslo, Minn.
- "No machine of any kind will pay for itself as quickly as the Big Four." W. H. Mathews, Ortonville, Minn.
- "I wouldn't farm with horses again if I had to pay \$10,000 for my engine." Daniel Tschantz, Turtle Lake, N. D.

**Emerson-Brantingham Co.**  
Manufacturers of the Largest and Most Complete Line of Farm Machinery in the World  
31 IRON STREET - ROCKFORD, ILLINOIS

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.

**Lightning Rod Benefits.**

Subscriber T. H. B., Concordia, Mo., asks if lightning rods are a benefit. He says there are a good many farmers around him who do not believe in them, but he thinks they are all right.

A great many good people have lost faith in the lightning rod because their confidence has been abused by imposters and cheats. Many people have seen lightning rods erected on buildings and have seen these buildings destroyed by lightning and have jumped at the conclusion that rods are not in any case a protection. The failure of rods to do what was expected of them was not the fault of lightning rod principles. In the erection of poor and cheap rods a fraud was perpetrated on these principles. It is practically certain that the right kind of lightning rods, properly erected, do protect property from lightning.

About the best evidence that lightning rods do protect is that fire insurance companies have taken cognizance of good lightning rods properly erected. For example, a company doing business in Topeka gives a discount of 30 per cent from its regular rates on buildings properly rodded. A Chicago company gives a discount of 20 per cent. A mutual fire insurance company of Iowa accepts only rodded risks. According to the insurance reports of the Iowa Co-Operative Mutual Insurance Association, a man runs one chance out of 193 of having his buildings damaged by lightning if they are properly protected with the proper kind of rods.

**Hints to Exhibitors Farm Products.**

At the meeting of the Kansas State Fair Association, just closed, was a magnificent display of agricultural products. Some of the displays were those made by individuals, while others were county exhibits. In many instances, these displays would have shown to much better advantage and the premium money would, no doubt, have been shifted, had proper care been exercised in selecting and preparing these exhibits.

In preparing sheaf grains, select uniform heads and, of course, good sized heads. Have heads as nearly alike as possible and be sure that the heads are of the same variety. Let the sample contain no less than 150 heads. Do not select such plants where rank growth has taken place, as the quality of the grain from such plants is never the best. The medium size, medium length straw, with well filled kernels, always shows best. Remove all the leaves clinging to the straw. This insures a bright,

clean sheaf. Tie the sample with cloth or ribbon in about three places.

In making exhibits of forage, select the most leafy types to be found. The object of forage is to feed. Secure as large, growthy specimens as possible. Small stems are desirable, especially so in the case of alfalfa. If the sample was cut green, the same should be tied loosely and hung in a dark place. After drying, the bundles should be taken apart and the best stalks selected. These should be handled as little as possible, to prevent breaking and loss of leaves. Tie with cloth and keep the sample from the light so that it will bleach as little as possible before showing.

Samples of grain should be thoroughly cleaned. In such samples there should be no weed seeds, no light, shrunken or broken kernels and no foreign grain. It is well to hand pick the samples. The samples should be uniform, true to type and of good color.

When showing potatoes, select smooth, clean specimens, with as few eyes as possible. The exhibit should be of uniform size and free from indication of disease. The most desirable marketable potatoes range in size from five to ten ounces. Be sure that the exhibit is of one variety only, and that the specimens show the individual characteristics of the variety.

When selecting vegetables and root crops for show, do not select freaks or specimens not true to type. The object of the exhibition is to show marketable produce and unless the rules of the exhibition calls for the largest specimens, you will profit by selecting medium size, symmetrical, true to type, marketable products.

If these suggestions in general are kept in mind until showing time next year the exhibition you make will be more attractive and more premiums will come your way.

**Silo Filling Problem.**

M. R. E., Elk City, Kan., writes that soon after starting to fill his silo the cutter broke, necessitating sending to the factory for repairs. In the meantime he had bound all his corn. He now asks this question: "What would be the result if I wait about two weeks and cut my Kafir and fill the silo with Kafir and corn, using a load of each alternately? I would prefer filling with Kafir alone, but haven't enough."

The editor has had no personal experience along the line of this subscriber's difficulty, and we know of no farmer who has. We would make a guess as to the quantity of silage the Kafir would make and fill the silo with the corn al-

ready cut, to the point at which we could finish filling with Kafir, using the entire Kafir crop. Would the Kafir fill the silo, we would not consider using the corn fodder.

The dry corn should go into the bottom of the silo and should be put through the cutter. Run a hose into the cutter blower and take into the silo through the blower all the water the blower will take up. This will make fair silage of the corn. This method is not unusual. Mr. J. O. Benton of Onaga, Kan., last year put up 600 tons of silage made in this way from corn fodder, and he did the work late in October after the fodder had been shocked. If the subscriber has a windmill or gasoline engine doing his pumping and can supply the water to this fodder in this way, the operation will be easy. If not, the matter of watering this silage becomes difficult and laborious.

The plan proposed—of running in one load of green Kafir and one load of corn—will not be satisfactory because the two kinds of corn will not be sufficiently mixed to distribute the moisture as necessary for good keeping. If the subscriber were to arrange to put through the cutter alternate bundles of Kafir and corn, the results would be the most satisfactory he could bring about. In fact, if we were confronted with this situation this is the thing we would do. Under these conditions we would cut the Kafir a little greener than if the Kafir was going in alone. This would have the effect of moistening the dry corn to a greater extent.

The Kafir should be cut for the silo as soon as the seed is past the dough. In filling the silo with this mixture be very particular about the tramping. KANSAS FARMER has recently contained several articles dealing with all phases of this matter of putting up silage. Hunt up your KANSAS FARMERS of the past few weeks and re-read these articles.

**Fresh Manure vs. Rotten.**

There is a generally prevailing idea that rotten manure is a much more valuable fertilizer than manure fresh from the barns or yards. The fertilizing value of manure is determined by the amount of the various elements of fertility contained therein. The fertilizing elements are mainly nitrogen, phosphoric acid and potash. The value of these is figured here at 15 cents, 6 cents, and 5 cents per pound, respectively. On this basis a ton of fresh barnyard manure is worth \$1.98 and a ton of rotted manure is worth \$2.04, or 6 cents more. When the fact is considered that it takes nearly

two tons of fresh barnyard manure to make one ton of rotted manure, owing to loss by evaporation and leeching, it may be seen that much of the fertilizing matter originally contained is lost in the rotting process and that when fresh there are more tons and so more fertilizing material to make use of.

The Maryland Experiment Station reports some interesting observations on the experimental use of fresh and rotted manure:

Both were used on the corn and wheat crops, in comparison with unmanured land. The yield of corn on unmanured land was 38.1 bushels per acre. On land dressed with rotted manure a yield of 65.1 bushels was secured; and where the fresh manure was applied the yield was 70.7 bushels per acre.

The increased yield of corn from the use of rotted manure was 27.6 bushels, and from the use of fresh manure 32.6 bushels, an increase of five bushels per acre in favor of the fresh manure. On the wheat crop the effect was similar, though not so marked. On the unmanured land the wheat yielded 16.1 bushels per acre; where rotted manure was used, 19.1 bushels; and on the land dressed with fresh manure 19.7 bushels per acre were secured. The increase in favor of the fresh manure is only six bushels per acre on the wheat crop.

**Kansas Soil Survey.**

Within the next ten years it will be possible for a farmer or real estate man, or, in fact, anyone who desires the information, to turn to the Kansas soil survey and find what any given piece of land in the state is worth as a crop grower, what crops it will grow best, what part of it needs drainage, what of it needs fertilizers and much more information about the soil which is not available anywhere now. Six soil experts—three from the agricultural college and three from the bureau of soils at Washington—are making the survey.

Shawnee and Reno Counties were the first to be surveyed. That was done last year. The experts will finish Jewell, Greenwood and Cherokee Counties this year. Not a single acre escapes these investigators. Sample of the surface and subsoil of the various types found are taken and chemical analyses made in the laboratory. Hills, valleys, highlands, lowlands, and woodlands get a place on the map.

After the survey is made, tests in growing crops on the various types of soil will be made. It will then be known what crops are adapted to the soils in any locality and how much these localities can be depended upon to produce.

**HORSE PLAGUE CONQUERED**  
**WE WILL DESTROY THE GERMS AND WORMS**  
**BEFORE YOU PAY**



**A TRIUMPH OF ELECTRICITY**  
**THE MOST POWERFUL GERM DESTROYER**  
**PUT IT IN THE DRINKING WATER.**

The volume of Sterilizing liquid thus formed penetrates the whole digestive tract, DESTROYS all DISEASE GERMS throughout that organization.

It ANNIHILATES WORMS and THEIR LARVAE, not only the ordinary free and comparatively harmless worms, which live on the food in the stomach and bowels, but THE OTHER KIND,—the DANGEROUS KIND,—THE MESSENGERS OF DEATH,—which BORE into the TISSUES,—live on the BLOOD,—DESTROY the ELEMENTS of the BLOOD—POISON IT—finally inducing so-called MENINGITIS, and DEATH.

**GENERAL PURIFICATION CO., Madison, Wis.**

General Purification Company, Madison, Wis.

Ship me sufficient Bacilli-Kil to last my stock, listed below, for one month. I will pay transportation charges, and will use according to directions. I will report results in a month, and will then pay for it if it does what you claim. If it does not, you are to cancel the charge. I own and will use

your treatment on the following: .....Horses; ..... Hogs; ..... Cattle;  
 ..... Sheep; ..... Poultry.  
 Name..... P. O..... Shipping Station.....

**SEND NO MONEY**

**JUST FILL OUT THE COUPON AND MAIL TODAY**

We will send you enough Bacilli-Kil to last your stock 30 days.

**Don't Wait**  
**Protect Your Stock**

This Coupon will also bring our books on Feeding and Care of Live Stock.

Prices:  
 1-Gallon Jug... \$2.00 Per Jug  
 5-Gallon Jug... 8.00 Per Jug

**Bacilli-Kil is the Most Certain, Safest, Cheapest Known Preventive and Remedy For Germ Diseases**

**BECAUSE—IT IS NON-POISONOUS TO MAN OR BEAST.**

Can be given freely in feed and water, and if animal too sick to eat or drink it can be given hypodermically.

**BECAUSE—IT IS MANY TIMES MORE POWERFUL** as a disease germ destroyer, even than the POISONS sometimes used—generally with fatal results.

**BECAUSE—AS A DISINFECTANT IT HAS NO EQUAL IN CHEAPNESS, EFFECTIVENESS AND SAFETY.**

With it you can WASH, SPRAY and STERILIZE the bodies of YOUR STOCK,—SPRAY and STERILIZE your BUILDINGS and UTENSILS, YARDS and MANURE,—can SOAK YOUR UPLAND HAY in it before feeding—thus destroying all fungus, molds, worm larvae and other things with which the authorities say it is infested. Can also soak your grain in it.

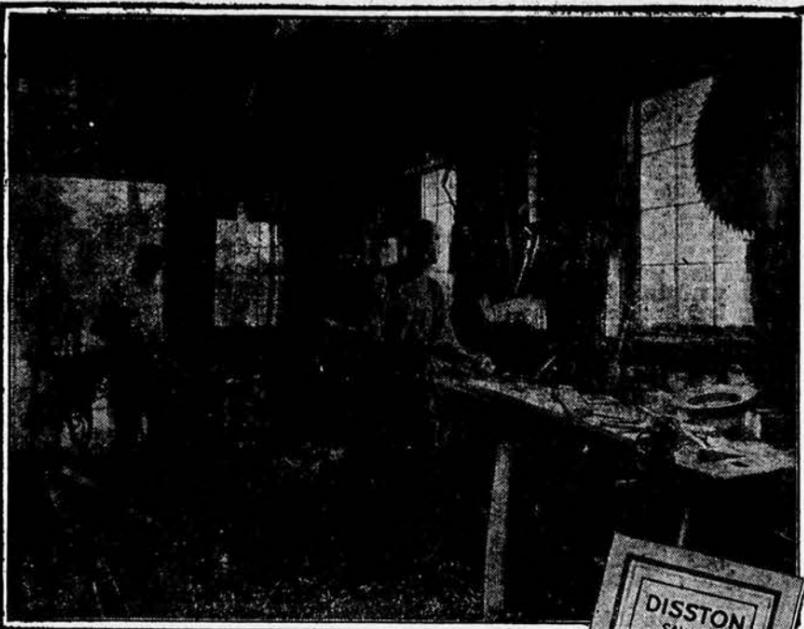
**BECAUSE—WE SPEAK FROM EXPERIENCE.**

Our Veterinarians and Bacteriologists have been at work in the thick of the battle—right on the firing line—have made post mortems on many horses—have treated and saved many entire bands of horses—have saved horses even after paralysis and blindness had occurred.

**FOR THE ABOVE REASONS**

BACILLI-KIL is equally effective in Preventing and Treating HOG CHOLERA.

We have saved thousands—Can save yours. Feed in the Slop—and Spray to disinfect.



When the Field Work is Over

and on rainy days, the farm that is equipped with an efficient assortment of tools sees much waste time made valuable. Improvements and repairs to machinery, buildings and wagons, together with numerous kinds of work in the woods become easy and profitable tasks.

# DISSTON

## SAWS TOOLS FILES

Sold by all Progressive Hardware Dealers

embrace many varieties especially adapted to farm use. Our book, "Disston Saws and Tools for the Farm", describes these. Its pages are filled with valuable suggestions on proper tool selection, as well as much information regarding the right care of tools.

Simply write for the "Disston Farm Tool Book", and it will be sent free by return mail. "There is no substitute for a DISSTON."

**HENRY DISSTON & SONS, Incorporated**  
Keystone Saw, Tool Steel & File Works  
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Warranted For Twenty-Five Years. Freight Paid to Any Station East of Rocky Mountain, except Texas, Okla., Colo., N. D., S. D., Wyo., Mont., N. M., La., Ga., Ala., Miss., and Fla., on all orders of three rolls or more. Special Prices to these States on request.

ONE-PLY	Weights 35 lbs.,	108 Square Feet,	\$1.10 per roll.
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TERMS CASH: We save you the wholesalers' and retailers' profit. These special prices only hold good for immediate shipment.

**Indestructible by Heat, Cold, Sun or Rain.**

Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to Southern Illinois National Bank.

**Century Manufacturing Co., DEPT. 708** (East St. Louis, Ill., or 100 E. 11th St., Kansas City, Mo.)



## The Rankin Manure Spreader

Also Gasoline Engines, Windmills, Corn Elevators, Feed Grinders, Scoop Boards. Special Introductory Prices in Every Locality. Write for Free Catalog. Box No. 51.



DAVID RANKIN founder of our business who made himself America's foremost farmer. He saved, what to others is waste-time and effort, and the saving made him rich.

**David Rankin Mfg. Co., Box 51, Tarkio, Mo., U. S. A.**

**Standard Books** FOR THE FARMER AND BREEDER FOR SALE AT THIS OFFICE. SEND FOR CATALOG. Address, Kansas Farmer, Topeka, Kan.

# LIVE STOCK



C. Larsen, South Dakota Agricultural College, says that fall freshening of cows in his state would add \$1,500,000 to South Dakota's dairy income.

**Hog Trouble.**  
Dr. A. T. Kinsley, vice-president of the Kansas City Veterinary College, states that he has not yet seen any of the cases of hog disease which are now puzzling the farmers, but from letters received he is inclined to think that the descriptions point to infectious pneumonia or so-called swine plague. This is, however, based entirely upon hearsay and the imperfect descriptions given by farmers.

If this should prove to be the disease, the Doctor says the best thing to do will be to use some means of eradicating the dust and of keeping the animals in pens or houses that have been entirely cleared of dust and thoroughly disinfected.

While chronic hog cholera does not have any particular action on the lungs, it very frequently happens that lung trouble or pneumonia is present in hog cholera cases.

As stated elsewhere, the only safe way in hog raising is to clean up and inoculate. Clean up the houses, pens and yards and keep them clean, then give every hog on the place the double serum treatment before he gets sick.

**The New Hog Disease.**  
"I have just returned from a trip in Mills County, Iowa, where I was called to investigate a new disease in hogs. I found this disease to be the old-fashioned swine plague, in which the lower half of one or both lungs are affected with various stages of pneumonia, and frequently contain necrotic centers, in addition to a marked pleurisy. The best treatment is to keep down the dust and keep the temperature as even as possible."—A. T. KINSLEY, Vice President Kansas City Veterinary College.

Other authorities show an outbreak of hog cholera, but generally in a chronic form, which is much slower in its action than the acute form of last year.

Dr. Kinsley's advice is sound, and the hog lots, pens and houses should be rendered as free from dust and rubbish as possible, and this can best be done by removing all of the rubbish possible and then spraying with a good germicide to lay the dust and kill the germs. Where possible, the hogs should be on alfalfa, clover or grass.

In addition to this, it is strongly recommended to give the hogs the double serum treatment before they show symptoms of disease. This can be done by the farmer himself after he learns how.

Consult our advertising columns for information about reliable germ and bacillus killers.

**Effect of Double Treatment.**  
Does the immunizing of brood sows in pig have a beneficial or deleterious effect upon the pigs? is a question often asked by farmers. Also, does the immunizing of the dam confer immunity upon the pigs?

It is the opinion of many veterinarians of standing, among whom may be named Dr. A. T. Kinsley, that the effect of the simultaneous immunizing method will be to produce abortion as a rule, or at least very frequently. Where this is not the case and an abortion is not produced, the operation will have no deleterious effect upon the pigs.

From this it would seem best not to administer the double treatment to brood sows that are near to farrowing time, but to immunize every hog on the place at the earliest possible moment and thus be forever free from danger of hog cholera until the new litters come.

In regard to the immunity conferred upon pigs by the immunizing of the dam, it is safe to say that, in the first place, nature confers more or less immunity on the young of all species, and young pigs are in but little danger as long as they depend wholly upon the mother's milk for their sustenance. As soon as they begin to eat, however, there is danger of infection if they are in lots or houses where cholera has been and the germs of which have not been thoroughly destroyed by disinfection.

For this reason it is very difficult to

determine just how much, if any, immunity is conferred upon the pigs by the immunizing of the dams. It seems reasonable, however, that some such immunity is conferred, but only for a limited time, and it is never safe to depend upon it. Have the pigs immunized as early as possible.

**Mules Not Immune.**  
The Manhattan Nationalist reports that 12 carloads of mules passed through that place last week bound for western Kansas to supply the motive power which was lost through the horse epidemic. The paper continues:

"Mules have seemed to be immune to this disease, and the farmers are taking chances on mules this time. There will be large shipments of mules to the western part of the state until the farmers have secured a large enough number to carry on their farm work. Many gasoline and steam engines have been imported for the fall plowing and it has been reported that some of the farmers have resorted to the old-time ox teams. The mules will be a great relief to the western counties."

Mules are not immune to the disease, though they seem not to have suffered so severely as did the horses. Perhaps this was due to the fact that there were not so many of them. This horse epidemic may prove a sort of blessing in disguise, just as did the great flood of 1903. While thousands of dollars were lost by the farmers in that flood, the fact remains that they never raised such crops in the Kaw Valley before that time as they have done since.

While the losses of horses have been almost unbearable during the present epidemic, the ultimate result may be the greater use of tractors in large farm operations and the restocking of the country with a very much better quality of horses.

Among other things it is poor live stock that keeps some men poor. None but the rich can afford to keep scrub stock, and they cannot.

**Hog Trouble.**  
From various sections, more especially to the east and north of us, have come reports of a new and mysterious swine disease which seems to be more or less fatal to the hogs and very alarming to their owners. It is stated that the disease is somewhat similar to pneumonia and not like the regular hog cholera as the farmers know it.

Most veterinary writers state that there are two distinct diseases which are very fatal to hogs and which are known respectively as hog cholera and swine plague. Some authors seem to lean to the opinion that the chronic form of hog cholera affects the respiratory organs and results in pneumonia and is generally called swine plague, while the acute form affects the digestive organs somewhat similar to typhoid fever in the human subject and is known as hog cholera. Dr. George F. Babb of Topeka, who has had a large experience in the treatment of swine diseases, was questioned in regard to the matter and made the following reply: "There has been and still is much confusion in connection with the two diseases—hog cholera and swine plague. Very frequently the two diseases are found at the same time in the same animal and thus the differentiation is difficult. True hog cholera, caused by a filterable virus, is manifested chiefly by the well known hemorrhage into the tissues in the acute type of the disease, while in the chronic type the intestinal ulcers are the principal lesions. True swine plague caused by a specific bacillus is also manifested in the acute type by the same lesions as the acute type of hog cholera, but in the chronic type is characterized by a pneumonia of greater or less extent. It is a fact that the blood and internal organs of hogs that have died of chronic or acute hog cholera usually contains the specific germ that causes swine plague. Oftentimes though the two diseases may be present in an animal, one or the other will give its particular lesions more prominently. Undoubtedly the new and mysterious disease in question is the combination of swine plague and hog cholera in which the pneumonia symptoms and lesions of the former are the more prominent."

**Warranted to Give Satisfaction.**  
**Gombault's**  
**Gaustic Balsam**



**Has Imitators But No Competitors.**  
 A Safe, Speedy and Positive Cure for  
 Curb, Splint, Sweeny, Capped Hock,  
 Strained Tendons, Founder, Wind  
 Puffs, and all lameness from Spavin,  
 Ringbone and other bony tumors.  
 Cures all skin diseases or Parasites,  
 Thrush, Diphtheria. Removes all  
 Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism,  
 Sprains, Sore Throat, etc., it is invaluable.  
 Every bottle of Gaustic Balsam sold is  
 warranted to give satisfaction. Price \$1.50  
 per bottle. Sold by druggists, or sent by ex-  
 press, charges paid, with full directions for  
 its use. If send for descriptive circulars,  
 testimonials, etc. Address  
 The Lawrence-Williams Co., Cleveland, O.

"The farmer who followed the advice given on page 6 of KANSAS FARMER issue of September 14 has probably saved his horses which he would otherwise have lost. That was advice of the soundest," said Dr. Burton Rogers of the Kansas State Agricultural College.

**It Was the Horses.**

Horses have been the companions of fire fighters since the days when the cities began to use them in the place of hand-drawn hose wagons of the old volunteer regime. In the old days, when a fire broke out, the townspeople gathered on the sidewalks and in windows to watch the run, but it was the horses they looked at, not the men. The new devices have in a way taken the thrill out of a fire run. The average man or boy who would follow a team of spanking horses for ten blocks will not take the second look at a motor engine racing down the street. With the passing of the horse much of the sentiment and romance of the fire station is gone and we who live in town pay very little attention to such things nowadays. At a big exposition of apparatus at the fire chief's convention in Denver last week not a horse engine was shown, but there were plenty of auto trucks tearing around town all the time and some of us old folks had to jump lively to keep out of their way.—L. M. WILCOX, Colorado.

**An Effective Remedy for Worms in Horses.**

Every farmer will be pleased to learn of a most effective remedy for the dreaded worm plague of horses which, on account of its absolute reliability, has become very popular. It is put up in gelatine capsules which, as soon as they reach the stomach, dissolve, and by a peculiar action kill every worm, passing them off dead in a very short time. Hundreds of bots and other worms have been removed from a single horse by two of these capsules. They can easily be given and used on mares in foal and colts, as they do not injure the stomach in any way. Thousands of farmers have used these capsules with excellent results, and no horse owner should neglect to give some to his horses right now, even though they may not show any signs of worms. This excellent remedy, invaluable for colts, can be had from THE BREEDERS' REMEDY CO., 141 Wisconsin St., Dept. 12, Milwaukee, Wis., at \$1.25 for 6 or \$2.00 for 12 capsules prepaid.—[Adv.]

**Do It Yourself.**

KANSAS FARMER has urged upon its readers the necessity of depending only upon qualified veterinarians or state officials in the event of serious epidemics among live stock, and this advice is sound in the case of emergencies. But there is no reason why the farmer should not learn of the various diseases and their preventives or remedies and administer them himself. The fact that there are fraudulent "remedies" on the market, and the fact that there are charlatans practicing under the guise of veterinarians, is a most unfortunate condition which should be remedied, but these facts should not condemn all remedies nor all veterinarians.

It is a well known fact that there are a number of perfectly reliable business houses that are now manufacturing perfectly reliable anti-hog cholera serum, and bacterins of various kinds. These are not to be condemned because there are fakes in the field.

One large manufacturer of a bacillus-destroying remedy went into the midst of the horse epidemic, accompanied by a skilled veterinarian, and made a thorough test on the sick horses before he was willing to announce his presence or purpose. His success was such that he now feels warranted in advertising his remedy as a safe and successful one to administer to horses for the unknown plague. Another large firm is said to have a number of men in the field testing a hog cholera remedy in order to make sure before advertising it. Both these firms have large interests at stake and cannot afford to put out any remedy that will not do what they claim for it. Such men make no charge for their services when testing their remedies.

Another important point is, no fake advertising appears in the columns of KANSAS FARMER. When the advertisement of any remedy appears in these columns it is because the proprietors have put up some mighty solid and substantial evidence that it is genuine and will do the work.

With the aid of such proprietary remedies and with the skill which he can easily acquire, the farmer can care for his stock at comparatively small expense.

**FARM CUSHMAN**

**The High Power, Engine for All Farm Work**

Take it wherever you have use for it—it weighs less than 200 pounds. Catalog Free.



**Original Binder Engine**

**4 Full Horse Power**

Pulls more than rated power. 4-cycle automatic throttle governor. Fuel consumed is proportional to work—no waste. Easy to move and handle, easy speed change, fits in any place, simple, dependable. Up-to-date farmers are buying the Farm Cushman because it's an all-purpose engine suited to every power job, from turning the grindstone in operating the binder. Write for catalog showing what other farmers are doing. We build 6-8 and 8-10 h. p. specialty engines for heavier work. Get descriptive catalog. Don't buy until you see it.  
**CUSHMAN MOTOR WORKS**  
 2048 N St., Lincoln, Neb.

**\$1. for a Horse**

Save a horse and you won't have to buy one. Don't sell or destroy any horse on account of Spavin, Splint, Ringbone, Curb, Sprains or lameness. Spend one dollar for a bottle of

**Kendall's Spavin Cure**  
 —the old reliable remedy. Thousands have made big money buying "broken down" horses, then curing them with Kendall's. Thousands have saved big money using this safe, reliable, economical cure Mr. G. H. Corbin of Kingmont, W. Va., writes: "Gentlemen:—Have used a great deal of Kendall's Spavin Cure and have never found anything equal to it. I used it on a mare which I only paid fifty dollars for and since I cured her of the Spavin I have refused to take two hundred dollars for her."  
 Can you call a horse "hopeless" in the face of these facts?  
 Get Kendall's Spavin Cure at any druggist's. Price, 50¢ per bottle, 6 bottles for \$3.00. "A Treatise on the Horse" free at druggists or from  
**DR. E. J. KENDALL CO.**  
 Keosauqua Falls, Vermont, U. S. A.



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Big, bright, close-woven SOLD DIRECT on 30 days free trial. 78 styles of Fence and 54 styles of Gates. Send for our big, handsome four-color Catalogue. It will save you Money, Time and Freight.  
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**\$10.00 Sweep Feed Grinder** | **\$14.00 Galvanized Steel Wind Mill**

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

**CURRIE WIND MILL CO.,**  
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**Lump Jaw Cured** in three weeks with one application of

**Adam's Rapid Lump Jaw Cure**  
 Easy Method. No Scars. Positively Guaranteed. Send for valuable Free booklet on animal diseases.  
**H. C. ADAMS MFG. CO., Dept. 26, Algona, Iowa**



**The Range With a Reputation**

**The Economy of A New Range**

It is a mistaken idea of economy to try to get along—to attempt to get results with an old worn out range or cook stove merely to save the price of a new one. You can probably stick a knife blade anywhere in the seams of your worn out range where the bolts are loose and the stove putty has crumbled away and you're burning twice the fuel necessary. You can save the price of a **Great Majestic** in the saving of fuel alone—and that would be good management and real economy. Don't trust wholly to a printed description in buying a range, because a very glowing description can be given of a very ordinary range. If you are considering a new range, it will pay you, before investing your money in any range to go to some dealer who handles them and carefully compare, point for point, with any other—the

**Great Majestic Malleable and Charcoal Iron Range**

**A Perfect Baker—Fuel Saver—Outwears Three Ordinary Ranges**  
 ONLY range made of malleable iron and charcoal iron. Charcoal iron won't rust like steel—malleable iron can't break. Put together with rivets—joints and seams absolutely air-tight always. Oven lined with guaranteed pure asbestos board, covered with an iron grate—you can see it—insuring a dependable baking heat with half the fuel required in ordinary ranges.

**All Copper Movable Reservoir—Other Exclusive Features**  
 Reservoir is in direct contact with fire, heats through pocket stamped from one piece of copper—patented feature only in Majestic. Oven Thermometer—open end ash pan—ventilated ash pit—ash cup. Sold by dealers in nearly every county in 40 states. Write for our booklet, "Range Comparison."  
**Majestic Mfg. Co.,**  
 Dept. 140, St. Louis, Mo.

**It Should Be In Your Kitchen**



**My Chatham Mill**

**Grain Grader and Cleaner**

Loaned free for 30 days—no money down—freight prepaid—cash or credit. **FREE! LOAN!**

It grades, cleans and separates wheat, oats, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats, smut, etc., from seed wheat; any mixture from flax. Sorts corn for drop planter. Rids clover of buckhorn. Takes out all dust, dirt, chaff and noxious weeds from timothy. Removes foul weed seed and all the damaged, shrunken, cracked or feeble kernels from any grain. Handles up to 80 bushels per hour. Gas power or hand power. Easiest running mill on earth. Over 250,000 in use in U. S. and Canada. Postal brings low-price—buy-on-time proposition and latest Catalog. I will loan 500 machines. "First come, first served." Write today if you want to be one of the lucky 500. Ask for Booklet 82  
**THE MANSON CAMPBELL COMPANY, Detroit, Kansas City, Minneapolis**



**Hunting Season Is Here**

EVERY BOY WANTS A GUN.

WE HAVE ONE FOR YOU



**HUNTER'S PRIDE SHOTGUN**

Best quality, high test, hardened blue steel barrel, full choke. Extra heavy reinforced breech with stock and fore end of genuine walnut. Hard rubber butt plate. Patent stop on fore end. Can be taken down same as double barrel gun. The frame is best grade forged steel, fully nickel plated. Has top stop and rebounding hammer, with shell ejector. The gun is fully warranted for the use of smokeless powder shells.

The real live, worth while boy does not live who would not like to own a good shotgun or rifle. We have one for you.

Read the description of these fine guns, and fill in your name and address for one at once.



**New Marksman Rifle**

Take down, single shot. Has heavy breech designed especially for smokeless powder ammunition. Has a 20-inch new trip-up barrel. Blue frame, patent lever, positive shell extractor. Full oval stock. Shotgun butt with rubber butt plate. Bead front and open rear sights. Weight four pounds. Shoots 22 calibre, all length cartridges.

KANSAS FARMER, Topeka, Kan. Send me full particulars. Hunter's Pride Shotguns. Cross out name of gun not wanted. New Marksman Rifles.

My Name.....  
 Address.....



## The Paint Question Settled Once and Forever



### Explanation of Map

Symbol Formula Humidity Climate  
 Triangle —No. 1 80 & over Damp  
 Square —No. 2 65 to 75 Medium  
 Circle —No. 3 50 to 60 Dry  
 Cross —No. 4 Under 50 Very Dry

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 Lincoln Paint and Color Company

DEALERS and their customers are showering us with compliments on our discovery that four kinds of paint were needed in this country to suit the different climatic conditions.

This discovery led us to originate

# Lincoln Climatic Paint

(Completely Machine Mixed and Ground)

—made on four separate formulas  
 —to fit the four climates.

Heretofore all American manufacturers have made their paint the same for all parts of the country. Each has used the same formula for damp and dry sections alike.

No wonder that soon after such paint was applied in some sections it began to crack and drop off the buildings or become faulty otherwise. Probably you have seen paint act like this and didn't know why. Yet it was only because no paint has been climatically adjusted until now in Lincoln Climatic Paint.

You can avoid all these paint troubles if you secure Lincoln Climatic Paint of the formula prepared for your locality.

You have merely to refer to the map above to determine the correct formula you need. When ordering specify the symbol and number, and you will secure a paint which is prepared for the exact weather conditions in which you live.

It's simply a proposition of getting all your money's worth and you owe it to yourself to be on the safe side and insist upon Lincoln Climatic Paint.

### Our FREE Book

telling about the discovery of Lincoln Climatic Paint will be sent to you on postal request. Write today, and we also give you the name of dealer nearest you who has a copy of the first climatic map of the U. S. ever published. Send postal NOW.

## Lincoln Paint and Color Company

Dept. 85, Lincoln, Nebraska  
 Factories: Lincoln, Nebraska, and Dallas, Texas  
 Lincoln Trade Mark covers a complete line of highest grade paints, varnishes and general paint specialties for all purposes.



# DAIRY



"The ill-favored, chance-bred, mongrel bulls that are being used in the common herds of the country testify to the fact that the improvement of dairy cattle is the most neglected phase of dairy farm management."

Col. Charles F. Mills of Springfield, Ill., a leading promoter of American livestock interests, has been made chairman of the advisory committee of the livestock department of the Panama-Pacific International Exposition to be held at San Francisco in 1915.

In selecting a dairy sire we must bear in mind that good qualities may be bred out more rapidly by the use of an inferior breeding bull than they can be improved by the use of a well-bred sire, writes L. J. Meredith.

Whether we begin by selecting the best calves from our common cows or whether we buy high-grade or pure-breds, we must have a good sire at the head of our herd. By the use of a good sire we have a reasonable assurance that we shall achieve success. With a poor sire we are certain of failure.

Thunder storms do not cause milk to sour, but the same conditions which cause thunder storms make the milk sour. For instance, the air is close and warm at such times, consequently the heat remains in the milk, so prevents it from cooling. Warm temperatures are conducive to rapid multiplication of bacteria which sour the milk.

Answering subscriber A. L. H., Carbon-dale, Kan.: The Holstein-Friesian Association prescribes that for advanced registry the animal must not only be pure-bred, but must meet these performance records: If a cow calves at two years of age, she must make 7.2 pounds of fat in seven consecutive days; at three, 8.8 pounds; at four years, 10.4 pounds; at five years, 12 pounds. If a cow calves between two years and three or four or five years of age, for every day of increased age .00439 of a pound of fat should be added.

"Each day emphasizes the belief that breeding grades together does not result in a grade, but a mongrel, that has no lasting quality save perhaps color. A grade can only be such when continuous use of a pure-bred sire is made. A grade sire can only give half of what superior blood he may possess, and the other three-fourths is just mixed blood, and yet a more confusing mixture results while the pure-bred sire is "halving" out the common blood, each generation. Many a man who is trying to breed up from grades is actually breeding down and out."

We believe in the whitewashing of the barn at least twice per year. The dairy barn, in particular, should be given this treatment. The whitewashing should be done in the spring so soon as the barn is no longer used. It should be whitewashed again in the fall just before stabling is begun. KANSAS FARMER has printed recipes recently for good whitewash. Whitewashing has the effect of keeping the stable sanitary—a thing necessary for the best health of cows and milkers. More than this, it makes the stable pleasant and cheerful and will be conducive to cleanliness during the entire stabling period. This paper is strong in the belief that the milking stable should be made just as pleasant and comfortable as can be. Whitewashing will help.

We have many times made the remark that the time expended in choring on the farm paid better than the same amount of time devoted to any other thing. Where there are many chores there must be much live stock. That it pays to grow and feed and putter around with live stock, is generally conceded. If the choring in connection with the cows, the calves, the hogs, is neglected, it is certain that the animals will not thrive as they should and there is more money in a thriving, growing animal of good breeding than in any other one thing kept or done on the farm.

"As a rule, the bull hands back to a man on the points of his horns the exact treatment accorded him at the points of the pitchfork prongs," pointedly says Dean Shaw, of the Michigan Agricultural College. "The club has no place whatever in the handling of a bull, and the same is also true of boisterous conduct of any kind on the part of the attendant. Quietness and gentle, but firm, treatment are essential to the proper training of the bull. Never undertake to make the animal do anything without accomplishing the same. If there should be any question about the result do not undertake it. The man who is afraid of a bull should not attempt to manage him, as the bull will detect the first evidences of fear and begin to take advantage at once, finally becoming ungovernable. On the other hand, no man should pursue foolhardiness and expose himself to danger unnecessarily."

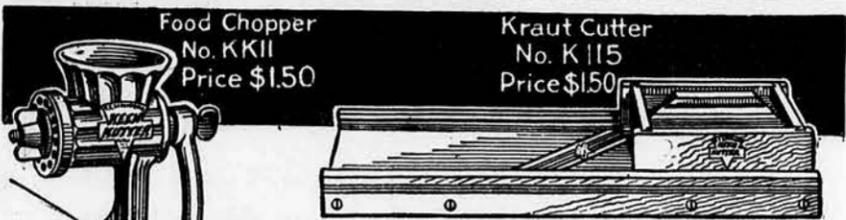
An advantage in testing cows for butter fat production, and which is not usually thought of, is the effect that a tested dam has on the sale of her male calf. This advantage appears with greatest import in the herd of pure breeding. Strange as it may seem, there are dozens upon dozens of pure-bred herds from which male calves are sold for breeding purposes and the cows are not tested. If it is known that the dam produces, say, 400 pounds of butter fat per year, her male calf will sell for much more money than if she produces only 300 pounds of butter fat or if her annual product is not definitely known. In the case of grade herds the effect of testing will be worth much more than it costs in the case in the prices to be obtained for the heifer calves, the same principle applying as mentioned above in connection with the sale of male calves. In the grade herd this principle would apply in the sale of male calves except that purchasers of males usually are not looking for grades, and the use of grade males in improving the dairy herd is a practice to be discouraged. From any point you may elect to consider it, the testing of cows is worth many times more than the cost.

Practically every dairy paper we pick up has a communication from some dairyman who has begun testing his herd and which communication expresses the owner's surprise as to the relative merit of different cows. Very often the cow he thought was the best proves to be one of only average ability, while those which were not so highly regarded in his estimation prove to be among the best. It is not unusual, either, for the dairyman to find in his herd as a result of testing, a superior cow and the value of which cow was in actual dollars and cents increased four or five times over what he thought her value to be. For instance, an Oregon dairyman at the conclusion of a year's test found that he had one cow which in 12 months produced 709 pounds of butter fat. He thought the cow a good one, but did not suppose that he possessed any such cow as the test proved. A cow of such producing ability is a top-notch. This cow, if she is pure-bred and not too old, will sell for \$700 or \$800. The dairyman says he would have taken \$150 for her any time before he made the test. Now he would not sell her at all. He will make her the foundation of his future herd.

It is conceded by every man who has carefully investigated the developing of a good farm dairy herd that the best and cheapest method of obtaining such herd is by breeding up by the use of a pure-bred sire and by persistent selection and development of the best heifer calves. This plan is recommended, first, because it does not involve any considerable cash outlay, and second, because in the breeding up process the owner is learning those fine points in connection with breeding, selection and feeding, which are essential in making the finished and expert dairyman. The man who has had no training or experience in dairy lines but who with a full pocket-book sets out to buy a dairy herd, in most instances fails in the care and handling of the animals procured. To avoid this experience, resulting in loss

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Food Chopper  
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More attention than ever before is being given to outfitting the kitchen properly. Food and meat choppers, cleavers, cutters—all are as essential in the modern kitchen as pots and pans. They are actual money savers, too. You will find them included in

# KEEN KUTTER

## Kitchen Furnishings

They give a housewife genuine pride in her kitchen, besides making the work lighter, more quickly done, less tiresome. Everything you need for your kitchen down to can openers, can be had with the Keen Kutter trademark—a guarantee to you that

"The Recollection of Quality Remains Long After the Price is Forgotten."  
 Trade Mark Registered —E. C. Simmons

If not at your dealer's, write us.  
 Send for free tool booklet No. 896.

Also, for Simmons Cream Separator Booklet No. 1381.  
**SIMMONS HARDWARE CO., Inc.**  
 St. Louis and New York, U. S. A.



Cleaver  
 No. K75  
 Price \$0.60



Mincing Knife  
 No. K102  
 Price \$0.25



# The Horse as a Side Line

(Continued From Page Four)

profit in the farm work she does. It is just as easy to raise good colts as it is poor one, the cost is no more, while the selling price is double or greater. It seems but a reasonable proposition that every farmer should produce enough colts on his farm to furnish his own horse-power, and if this can be done as cheaply, as easily, and without interference with farm work, as is the case on nearly every farm, then it would be practically no more trouble or cost to raise other animals of like class for the market.

It has often been said that surplus horses will eat their heads off, and this may have been true at one time, but it is not so now. Wouldn't you like to have a good thrifty bunch of well bred draft horses on your farm that you know could be turned into cash at any time? Do you not know that the high-grade draft horse on the farm will pay you more for your grain and forage than the dealer will at any time except during such stress of weather as we had last winter when prices for feedstuffs became abnormal? It is my belief that, even under such circumstances, the draft horse will pay more for your home-grown feedstuffs than you can get from any dealer at any time, and he will certainly do it, as a general average proposition. When you sell your feedstuffs to your draft horses you save the labor and expense of hauling them to market and put your hay and grain in shape so that you can drive it to market instead.

Every farmer in every community, and especially in those communities which have been devastated by the horse epidemic, should unite with every other farmer in seeing that the horse stock of the country is improved, and this can only be done through the use of a good sire to begin with and the following of this start by the use of good brood mares. Select the type and the breed of horses that will meet your requirements and will find the most ready sale on the market, and adhere strictly to this type and breed. Draft horses should have the first place because of their superior demand for both farm and city traffic, and good draft stallions should be used for the production of this type. Where carriage or saddle horses are desired, a proper sire should be provided, but there never should be any crossing allowed, under any circumstances. The crossing of breeds and the mixing of types produces scrubs and serves to un-

do the work of the skillful breeder more rapidly than can be accomplished in any other way. Years have been spent in establishing the breeds until we now have the draft horse which has never been exceeded for his purpose; the track horse, which has no superior in the world; the saddle and the carriage horse, with variations, each of which has his proper sphere of usefulness which cannot be filled so well by any other. The crossing of any of these is the beginning of a tearing down process which can lead only to the scrub. No farm community should tolerate for a moment a scrub stallion, and the owner of such an animal should be barred from society until he reforms.

On the average farm in Kansas there is an equipment of farm buildings and such a variety of crops that the maintenance of a few more brood mares of the proper type would add practically nothing to the expenditures, but would, on the other hand, serve to increase the fertility of the farm, furnish additional motive power in emergencies, consume much that is not marketable and would otherwise be waste material, and at the same time produce a crop of colts that would net the farmer several hundred dollars a year in such an easy manner that it would be almost like finding it. One has but to follow the market report for the past four or five years to know that high-class draft horses have always maintained a good price, and this with an upward trend. A good draft colt from a ton horse and a 1,600-pound mare will easily sell for \$100 at weaning time, while if kept to three years old and reasonably well broken to harness, may easily reach \$250 to \$300.

After the work of horse breeding is thoroughly started the farmer can have a crop of three-year-olds to sell each year, and, as he will get at least eleven months' work in the year out of each brood mare, and should get twelve months' work out of each stallion, the cost of the three-year-old at selling time would not exceed \$75 or \$80. All that he receives above this cost is so much profit. Simmered down, the proposition amounts to this: We must have the horses with which to do the farm work. If brood mares are used, they return a profit in the work done, the colts raised and the manure furnished for the field, and of these the colts are practically clear profit.

## Advice to Live Stock Shippers

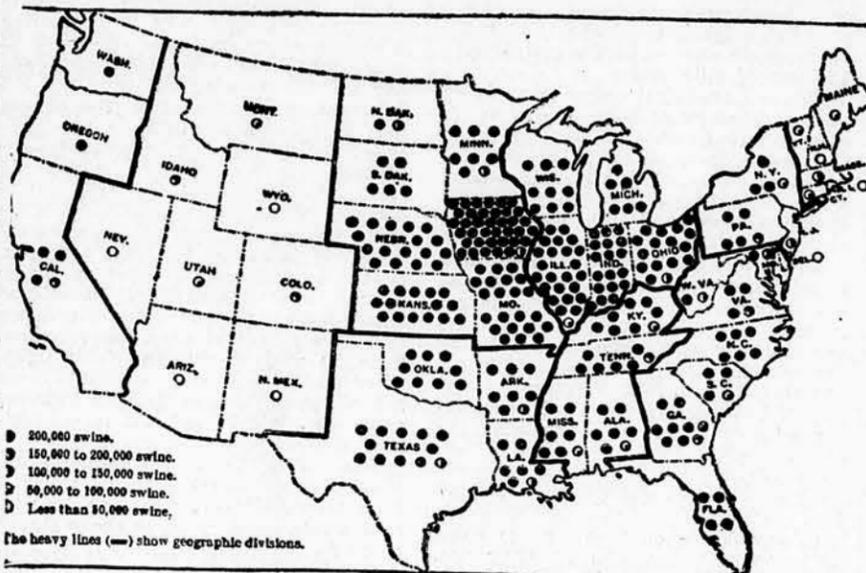
It is the contention of the live stock commission men that much money is lost to inexperienced shippers of live stock by reason of failure to handle stock properly. An old commission firm gives this advice:

"All stock should be handled slowly and with care, and never permitted to go out of a slow walk."  
"Do not load stock when filled with

crowded. When stock is crowded, extra shrinkage results.

"Consign direct to the commission firm you desire to patronize. Write or wire that firm in advance, giving the number of cars and kind of stock shipped.

"It is good for owners to go to market with anything they have to sell. It gives them ideas whereby they may profit in the future. Live stock shippers



DISTRIBUTION OF SWINE THROUGHOUT THE UNITED STATES.

feed and water. When this rule is observed the stock will eat and drink better upon arrival at stock yards, and larger net results will follow.  
"Load cars comfortably full, but not

should keep in close touch with their commission firm in order that they may be able to advise with them at all times regarding conditions of markets, demand for certain kinds of stock, etc."

(Advertisement)

## Guy T. Helvering FOR CONGRESS

Guy T. Helvering, the Democratic candidate for Congress in the Fifth Congressional District, does not belong to the "Professional" class of candidates, who talk about the farmers' interests without a definite knowledge of the chief industry of Kansas.



GUY T. HELVERING

Mr. Helvering is a farmer in fact. His whole life has been spent in the open, from his boyhood days, when he helped his father as a truck gardener, to the present, when he operates one of the best farms in Marshall County. He owns 240 acres near Marysville, which has his personal attention every day. His actual work on this farm gives him first-hand knowledge in the study of agricultural conditions. The new lessons in modern farming are his through actual experience. As a Marshall County farmer, he has an education that will be valuable to himself and to his district as a member of Congress.

Mr. Helvering believes that Emerson never uttered a greater truth than that, "The farmer was the first man, and all historic nobility rests on possession and use of land." He declares also, that the farmer is at the basis of all constitution of government.

While farmers now enjoy practically all the conveniences of town life in the modern advantages of daily mail delivery, telephone, automobiles, and other improvements devised for human comfort and convenience, Mr. Helvering, if elected to Congress, will seek to extend these advantages so that every farmer in his district who has a telephone may receive daily weather forecasts, an advantage which hundreds of thousands of farmers in Ohio and other states are enjoying.

Mr. Helvering is prominent among the public men of Kansas who depreciate the movement of the boys and girls from the farms to the towns and cities. With him, it is one of the vital problems of the hour. He argues that farmers are entitled to the fullest appreciation of their high and honorable position in the community, and that children on the farm should be impressed with the truth, "That for health and substantial wealth, for rare opportunities, for self-improvement, for long life and real independence, farming is the best business in the world."

He is an earnest advocate of the education of the sons and daughters of farmers that will fit them for the most useful living. In addition to the instruction offered in the country schools, the high schools and the great agricultural college located in the Fifth District, there should be rural libraries where books of a refined and elevating character can be procured.

Mr. Helvering fully appreciates the statement of a well-known Kansan, "The lack of social life is severely felt in the country, and if the future farmer is to come from the flower of our youth, country life must be made interesting and attractive.

Guy T. Helvering stands before the voters of the Fifth Congressional District as a representative young man who recognizes the fundamental truth that it is the tiller of the soil to whom the people look for sustenance, and that agriculture is the most honorable of all occupations.

The farmers of the Fifth District thus have an opportunity to vote for a man to represent them at Washington who knows their needs. His life work and his interests and sympathies center about their high and honorable calling. Every vote for Mr. Helvering means a vote for the advancement of the interests of the farmers of his district.

### WHITE PLYMOUTH ROCKS



### Best All-Purpose Fowls in Existence.

White P. Rocks hold the record for egg laying over all other breeds. 289 eggs each in a year for eight pullets is the record, which has never been approached by any other variety. I have bred W. P. Rocks exclusively for 30 years and have some fine specimens of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45, and I prepay expressage to any express office in the United States.

THOMAS OWEN, Sta. B, Topeka, Kan.

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Only successful self-feed; two men can operate it; 20 per cent less expense to operate. Record run, 3 tons in 1 hour.

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The strongest and most accurate scale in existence.



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\$9,000 offered for certain inventions. Book "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free report as to patentability. Patents advertised for sale at our expense in Manufacturers' Journals. Patent Obtained or Fee Returned. CHANDLER & CHAMBERLAIN, Patent Attys, 140 F. Street, Washington, D. C.

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mortgages for sale, \$200.00 and up. Ample secured by second deeds of Trust on elegant Kansas City, Mo., property. Write us for photos and particulars. FRANKLIN L. GRAVES, 1018 Com. Bldg., Kansas City, Mo.

### NEW LUDWIG REVERSIBLE CORN HUSKER

Can be used on either right or left hand, hook can be shifted to any position to conform with position of hook on any other husker. Spring on hook relieves pressure on hand, also causes hook to penetrate husk, and will not shell the corn. This alone saves the price of half dozen huskers in a single day. No rivets to hurt the hand. Most practical and economical corn husker made. Price, 25c, at your dealers, or direct. LUDWIG MFG. CO., Sandusky, Ohio.

### SANITARY CHICKEN ROOSTS

Mites are the greatest menace to chickens. The only way to be rid of them is by using our roosts. Hundreds of them in use. Made in different sizes. Cost but little. Address Only Sanitary Roost Co., Belleville, Kan.

### USE THOMAS HUSKERS

Catalog free. E. M. THOMAS, Shenandoah, Iowa.

### THE FARMER'S FRIEND KNIFE

The Handiest and Best Knife Ever Manufactured.



(One-fourth Actual Size.) The Farmer's Friend Knife is made for practical, everyday use. You have paid \$1 or \$1.50 for a knife not as good as this one. Brass lined, German silver mountings and stag horn handle. Large blade, 2 3/4 inches long. Reamer or punch blade, 2 1/4 inches long. This blade indispensable for making various sized holes in leather for buckles, rivets, belt lacing, etc. Both blades are of finest tempered tool steel, finely ground and polished. Every Knife Guaranteed Fully.

### OUR OFFER.

Sent free to anyone sending us \$1 for one new yearly subscription to KANSAS FARMER, or sent free to any present subscriber sending \$1 for one year's renewal and 25 cents extra for shipping.

KANSAS FARMER, Topeka, Kan.

Ask your dealers for brands of goods advertised in KANSAS FARMER.

# The GRANGE

## DIRECTORY OF THE KANSAS STATE GRANGE OFFICERS.

Master.....George Black, Olathe  
 Overseer.....Albert Radloff, Topeka  
 Lecturer.....A. P. Reardon, McLouth  
 Secretary.....O. F. Whitney, North Topeka  
 Chairman of Executive Committee.....  
 .....W. T. Dickson, Carbondale  
 Chairman of Legislative Committee.....  
 .....W. H. Coultis, Richland  
 Chairman of Committee on Education.....  
 .....E. B. Cowgill, Lawrence  
 Chairman of Insurance Committee.....  
 .....I. D. Hibner, Olathe  
 Chairman of Woman's Work Committee.....

### Manhattan is Working.

Manhattan Grange No. 748, is in a good condition and has done some good work this year. We occasionally get a new member, but our greatest need is a better attendance. We have on our roll 216 members, with a fair average attendance.

We have had our meetings during the summer at the homes of the members, and enjoyed many good social days.

We meet twice a month, and have one day for degree work and one for program. Such questions as, "Removing the Tax On Oil," "The Utility of the County Assessor," "The Single Tax," and many others, have been thoroughly discussed this year.

We have also instructed our delegates to vote to authorize the executive committee to employ a competent agent to buy or sell, for any patron, any article he may wish.

Occasionally we have a paper, edited by some member of the grange, called "The Spirit of the Grange," in which we may advertise anything we wish to buy or sell. Sometimes we also get advertised, whether we wish it or not.

We had one program on the subject of "Rodents, and How to Get Rid of Them." This was both interesting and instructive. All programs are interspersed with music.

We will, from this on, be planning for the State Grange meeting, which is to be held in Manhattan, December 10-12, this year.—FLORA M. ALLEN, Secretary.

### Postal Express.

The more I study the ideas of David J. Lewis on postal express, as set forth in the Gardner postal express bill before the Senate, and the Goeke express bill reported by the Committee on Interstate and Foreign Commerce, to the House, with recommendations that it pass, the more I am convinced that we are at last nearing the correct solution of the parcels post problem. The Lewis great thought is how can this government provide an adequate law cost system of transportation of the perishable light weight products of the farm direct adequate service to the farmer of what he needs from his nearby trading town. To attain all this there must be:

1. A cost-of-service railway postal express system in place of the present private express companies now using the railways and charging all the traffic will bear.

2. The 42,000 rural mail carriers must hereafter not only carry mail, but also act as express agents in collecting and carrying the light weight food products of the farm to the cities and merchandise from the cities to the farmers.

3. Finally, there must be a city express service that will deliver the produce gathered along the rural routes to the city consumers.

To accomplish all this is absolutely necessary to act upon Mr. Lewis' contention that the present express companies are parasites on the railways and no real part of them. Mr. Lewis is right in holding that the government should condemn and take over the express companies and operate them as a part of the postal service for the benefit of the people. To give all the people the complete low cost express service absolutely necessary to meet their needs, the government must have a monopoly of the collection, carriage and distribution

of all packages the same as it has of letters. If the government is going into the parcels post business in earnest, it needs the express companies' contracts with the railways, as well as the trained express employes and the express equipment, except where there is duplication of service. This is the purpose of the Gardner and Goeke bills.

I cannot close without pointing out that next in importance to production is transportation and distribution; that every year there is wasted on the farms of this country tens of millions of dollars worth of light weight products, all of which are needed and could be used by the people of our cities; that our farming people (40 per cent of the whole population) are without an express service which the 42,000 rural mail carriers could and should perform; and, finally, that the only satisfactory solution of the parcels post problem begins with condemning the express companies and operating the business by the postoffice department. This done, all the other steps essential to the most perfect express system of any nation are easily taken.

Any parcels post system which compels the government to duplicate any considerable part of the vast equipment, railways, terminal facilities, etc., in order to compete with the existing express companies is a mistake, for upon the people then falls the burden of supporting as well the competitive express companies; and the parcels post rates will be higher than they would be if this competition was eliminated. The great

danger now confronting the friends of the postal reform is that of hasty action by Congress before all the factors of the great problem have been fully considered.—PROF. W. A. HENRY.

### Imported Hardy Alfalfa.

The United States Department of Agriculture has worked more persistently on securing hardy varieties of alfalfa than on any other one similar thing. It has been the aim of the department to find hardy forms of common alfalfa adapted to severe conditions of drouth and cold. A yellow flowering species found widely distributed throughout the dry and cold steppes of Russia, seems to be the most promising. The results of tests made seem to indicate that the value of this species lies principally in crossing with the common alfalfa of this country to produce hardy and drouth-resisting hybrid strains. All of the new alfalfas brought to this country do not appear to be sufficiently productive to make them generally profitable under cultivation, although many of these forms are unquestionably hardy and drouth-resistant. It is believed that within a few years some valuable results will have been obtained as a result of the department's work.

### Important Experiment.

Is it possible, by careful cross-breeding of susceptible and unsusceptible animals, to produce strains that are immune to certain diseases, such as hog cholera, Texas fever, anthrax, blackleg, glanders and other diseases dangerous to

the animal world? An answer to this big question is being sought by two experimenters at the Kansas Agricultural College—Perry Van Ewing, assistant to President Waters, and John W. Calvin, an assistant in animal nutrition. An experiment begun recently with fifty mice—twenty-five white and twenty-five gray ones—may, if successful, be valuable in throwing light on the problems of breeding for immunity in the higher animals.

Plant breeders have been very successful in producing strains immune to plant diseases. Notable among these successes is the strain of wheat which is immune to wheat rust. This variety of wheat revolutionized wheat growing in the northwest. But very little experimental work of this sort has been done with animals, though with so many contagious and infectious diseases with which to contend, the field and the need for such experimentation is great.

White mice are susceptible to certain diseases to which gray mice are immune, and vice versa. These breeds are to be crossed and the hybrids interbred among themselves. Then by inoculating the resultant offspring with germs of some disease to which white mice are susceptible, for example, it is hoped to obtain a strain of white mice, finally, that is immune to this disease. This is made possible through the famous discovery known as Mendel's law. An attempt likewise will be made to attain the same end by selecting individual white mice, without crossing, which show marked resistance to disease.

# Three new styles



Victor-Victrola XI, \$100  
Mahogany or oak



Victor-Victrola X, \$75  
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Victor-Victrola XIV, \$150  
Mahogany or oak

The greatest feature about these new instruments is the unequalled tone which has given the Victor-Victrola its supremacy among musical instruments.

There's nothing new about that of course, for this wonderful tone characterizes every Victor-Victrola.

The newness of these three instruments is in the design, and the improvements are really astonishing.

More beautiful, more artistic, more complete—and with no increase in price.

The greatest values ever offered in this greatest of all musical instruments.

Any Victor dealer in any city in the world will gladly show you these instruments and play any music you wish to hear.

Write to us for the handsome illustrated Victor catalogs.

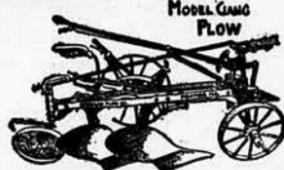
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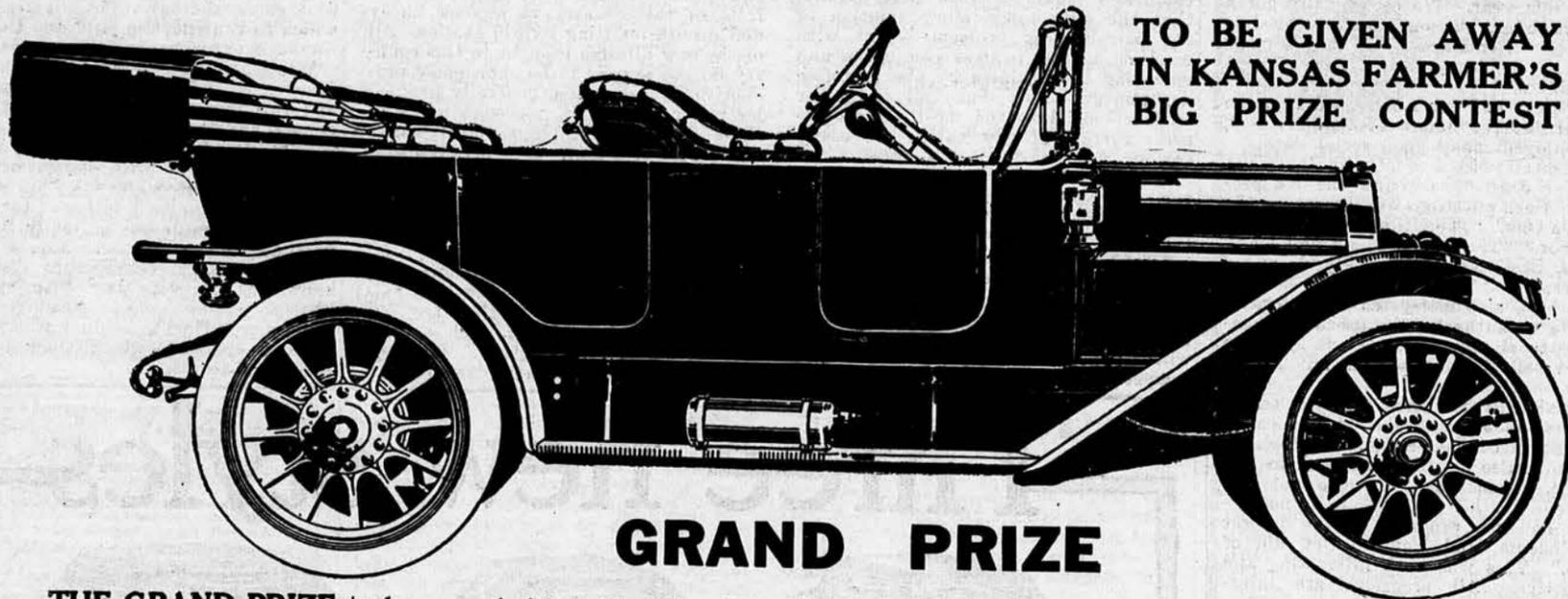
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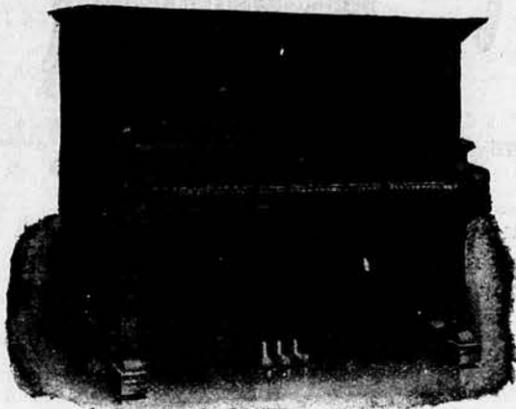


TO BE GIVEN AWAY IN KANSAS FARMER'S BIG PRIZE CONTEST

### GRAND PRIZE

**THE GRAND PRIZE** to be awarded is a Model "69T" 1913 Overland, 5-passenger touring car, fully equipped. This car is a leading favorite of the middle west, and is built for elegance and comfort, as well as power and durability. This big, handsome machine will be awarded to the one securing the highest number of votes.

**THIS IS YOUR REAL CHANCE.** Jump into the race, come in first under the wire and show your friends that you and your family can own, enjoy and drive your own touring car.

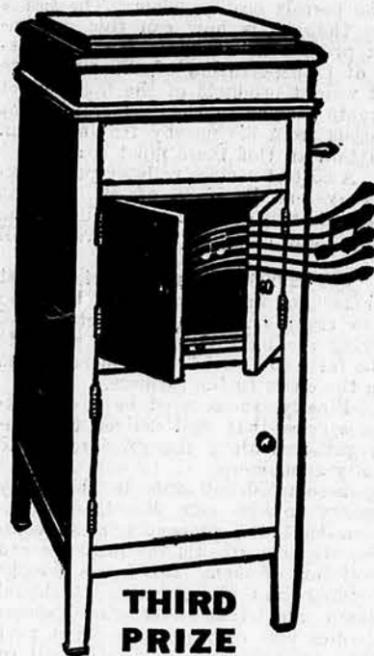


### SECOND PRIZE

The second highest vote getter will be rewarded with a handsome \$400.00 CRAMER PIANO. This instrument is made by one of the leading piano manufacturers of Boston. The case is beautifully and artistically finished, with choice of either oak or mahogany. The keyboard consists of seven and one-third octaves, with keys of real ivory. Its latest improved and scientific sounding board and high grade strings give it the sweetest and most melodious tones to be desired. It is an instrument of which any householder can well be proud.

The third prize to be given is a beautiful \$150.00 **VICTOR VICTROLA**, complete, with 12 double disc records, furnishing 24 selections of music, etc. This make is considered the highest achievement in the art of music reproducing instruments. It is enclosed in a magnificently finished cabinet, which also contains recently devised record filing albums.

Third position at the close of the contest can well be eagerly desired, for this prize is worthy to adorn the most splendid home in the land.



THIRD PRIZE

The candidates securing the fourth, fifth, sixth and seventh highest number of votes of the entire contest will be awarded respectively the first, second, third and fourth choice of the following prizes:

A \$50.00 Victor Victrola in a fine mahogany case, with six double-disc records.

A high-grade Business College Scholarship in one of the best Business Schools of Topeka, and

Two fine \$50.00 Gold Watches, either ladies' or gentlemen's, fully guaranteed and of widely-known make.

The prizes will be given to the winners **FREE** and without restrictions whatever. They will be theirs to do with as they choose.

Do not say, "They will be splendid prizes for somebody." Be that "Somebody" yourself. With this excellent line-up of prizes, you have all the chance in the world to win if you will just get busy right now, today, and start out to gather votes. Let your ambition shine. Only the ambitious, who recognize the good opportunities when they meet them and make use of their better qualities, are favored with the good things which the world affords. Nominations are commencing to come in. Be one of the first by sending yours in today, and be one of the leaders.

It costs you absolutely nothing to enter the race. Every man and woman of good moral character, living in Kansas, is eligible as a candidate.

Votes will be allowed on both new and renewed subscription orders. The territory in which to conduct your campaign and secure votes is unlimited. The world is yours to campaign.

Help us boost our state by boosting for **KANSAS FARMER**. Every boost for Kansas means a boost for your own personal interest.

We will render all possible assistance to you as a candidate. You can win one of these big prizes by employing system and putting energy and enthusiasm into your efforts for votes.

You can win just as easily as your neighbor. Don't put off entering the merry race; the sooner you start the longer time you will have to secure votes. Send the Nomination Coupon today. We will immediately mail you full information as to prizes, rules, regulations, instructions, plans, blanks, etc., free.

Look for the Vote Coupon on another page. Clip it out and send it to the Contest Department so that it will reach it within 10 days of the date printed on it. It will count 25 votes for you. Tell your friends to save these coupons and send them in for you. Every one you get boosts your standing.

#### NOMINATION COUPON.

You can nominate yourself, or anyone you may choose.

Date.....  
The first coupon you send in will entitle you to 5,000 votes.  
Contest Department **KANSAS FARMER**, 625 Jackson St., Topeka, Kan.  
I desire to nominate

M.....

Postoffice.....

R. F. D..... State.....  
as a candidate in **KANSAS FARMER'S** Great Prize Contest.

Signed.....

Address.....

Please send full information regarding prizes, plans, rules, etc.

# The Farmer's Interest in Government

**B**ECAUSE the farmer combines in one person, the occupation of worker, manufacturer and merchant, his interest in political matters and the effects of governmental policies, is more than that of any other individual.

And because his mode of life renders him free from the passions and prejudices of men in other occupations, he is more open-minded than most men are.

Also, he knows the value of facts—as opposed to fancies, and he judges men and affairs by results shown by the harvest of accomplishment.

No farmer need be told that under the present administration greater prosperity has existed upon the farm than has existed in the same period of time in the history of this country. The natural question in the minds of all of us is:

Do we want to change conditions by a change in administration?

Mr. Taft never has made any glaring promises that he would do any special favors for the farmer, nor has the farmer asked such. The farmer only wants justice. Mr. Taft has a judicial mind, and, always, in administrative affairs, he has kept in mind justice.

The most truthful accusation against Mr. Taft is that he is not a politician. He has had political advice in plenty, and he has been repeatedly told when he advocated certain measures, that such action might mean his political death. His invariable answer has been that the one consideration he had in mind was:

"Is this the right thing to do?"

## Tariff Revision

On no subject has Mr. Taft been criticized more freely by his opponents than on the subject of the tariff.

Right here it is well to state that Mr. Taft has strictly adhered to his promise of a downward revision of the tariff while maintaining the protective principle.

For the first time, a President of the United States has taken decisive and effective steps to remove the question of tariff tinkering from politics.

Against the opposition of the politicians of both parties, he established a non-partisan tariff board or commission, whose special duty was to ascertain the difference between cost of production at home and abroad.

Its duty was to make such a report that a schedule could be framed which would take care of the difference in cost and permit manufacturing to be carried on in this country.

Before this tariff commission reported, a job lot of political, vote-getting measures were presented to Mr. Taft for signature.

The President promptly vetoed these bills.

The facts afterwards presented to him, by the Tariff Board, clearly showed that if these "pop-gun" bills had become laws, immeasurable injustice and injury would have been inflicted upon many American Industries.

Anyone who will read President Taft's messages, in which he stated his reasons for these vetoes, can ascertain these facts for himself.

The President vetoed these bills after he had been warned by political friends that

if he did so it would mean the end of his political life.

The interest of the farmer as worker, manufacturer and merchant, is in the maintaining of the home market.

The home manufactories built up under the protective policy have created the home market.

It is the policy of the Republican party to maintain this protective principle, and by an intelligent tariff commission, recommend reductions in the tariff in the interests of all the people where these reductions can be made without injuring our local industries. If it were not for our local manufactories, the farmer would be receiving one-half what he is now getting for his products.

The Democrats claim that the farmer is paying an excessive tariff tax and selling his goods in an open market.

As an actual matter of fact, we export but 4 per cent. of the wheat raised in this country a little over 2 per cent. of the corn raised, and less than 1 per cent. of oats. It is the protective policy of the present administration which has fostered local manufacture, so that we consume at home practically all of the farmers' produce.

The desirability of the home market is recognized by every civilized nation, and even England, which is called a free trade country, values the home market so highly that a law was recently passed in that country making it necessary for manufacturers of American goods who manufacture under patents to locate branch factories in England to protect their patents.

Since this law was passed, many American manufacturers have been compelled to erect factories in England.

Hence it is seen that England is only a free trade country when she can manufacture cheaper than we can. It is the home market that every government seeks to foster.

The home market is the farmers' market.

\* \* \*

Most important in connection with this tariff question is to have information obtained by a tariff board, non-partisan and scientific.

Then we secure a tariff which represents just the difference between the cost of production abroad and at home.

President Taft created this board; fought for it; worked for it, and was guided by it, and every sane man knows that such a board is the only body of men who can properly develop the essential facts.

A permanent tariff commission—a bill for which received the vote of every Republican in the last House, but which was defeated by a solid Democratic vote—should be established. Re-elect President Taft and give him a Republican Congress and it will be. Then we can revise our tariffs, as other countries do, fairly, justly and upon a scientific basis.

## Trust Prices

It has remained for President Taft's administration to uncover causes of high prices on certain manufactured goods and to expose trust methods which have been wrongly attributed to the tariff.

In completing and bringing to a successful issue cases which his predecessor started (and now says it was no use to start) certain facts were disclosed and the President promptly took steps to correct evils that were apparent.

Certain practices were in vogue under the protection of the patent laws. By a special message to Congress, Mr. Taft asked for amendments to these laws.

In his report recommending such a law as the President requested, the Chairman of the Committee on Patents gives the following explanation of the purposes of the different clauses:

"Clause (i) is directed against the practice of temporary cut-throat competition so persistently pursued by the Standard Oil and Tobacco Trusts.

"Clause (j). This clause is designed to prevent the illegal and immoral methods so frequently pursued by the Standard Oil and Tobacco Trusts of illegally securing secret information as an instrument for preventing competition."

The report quotes a number of court decisions—two of which are very significant, and from which the following extracts are taken:

"That one of the parties had acquired over 100 patents pertaining to straw stackers."

Another, "was charged with having acquired 85 patents on spring-tooth harrows."

It isn't the tariff laws that need tinkering in such cases. It is the patent laws that need amending.

Mr. Taft has recommended a revision to correct existing patent evils, and perhaps the strong opposition to him of the Farm Machinery Trusts and the cordial support of these interests for the Third Term candidate may have an explanation in this direction.

## Control of Trusts

The Taft administration has made it unpleasant for the gentlemen who operate illegal combines and these gentlemen now want some one to "control" them.

They want to be told just what they can do and whom they can "do,"—and the Third Term Party has promised to tell them this.

The Taft administration plays no favorites. It demands that all business be honest, and then it pledges its best efforts to make all honest business prosperous.

\* \* \*

Another point to present to the people of this country:

The present incumbent of the White House has never had his word questioned.

He has never felt under the necessity of calling his opponents bad names nor applying any epithets. His word never has been disputed—either his private statements or his public utterances.

Mr. Taft doesn't try to fool the people. He doesn't go out and pitch a few forks of hay to carry the idea to the farmer that he is "one of us." Neither does he get his picture taken hacking at a tree with an ax—in order to have campaign material.

Mr. Taft is a sane, able, dignified gentleman.

\* \* \*

Mr. Taft stands for an effective Parcel Post.

Mr. Taft is for every advanced form of governmental administration for the benefit and advantage of the whole people.

REPUBLICAN NATIONAL COMMITTEE  
CHARLES D. HILLES, Chairman  
JAMES B. REYNOLDS, Secretary



Dont Forget This

Don't forget that Calumet Baking Powder is not an experiment—it is not a new product.

And don't forget that

CALUMET BAKING POWDER

is a wonderful saving over the high price kind. It is moderate in cost—economical in use—a joy to the cook.

RECEIVED HIGHEST AWARDS World's Pure Food Exposition, Chicago, Illinois.



You don't save money when you buy cheap or big-can baking powder. Don't be misled. Buy Calumet.

DON'T PAY TWO PRICES



Hoosier Ranges and Heaters

Why not buy the Best when you can buy them at such low un-

O. K. FURNACES

Burn any fuel. Steady fire. Heat most space with least fuel. Easy to operate. Last longest.

GEM OIL GAS BURNER

Used and recommended by hundreds of people. There's a reason. Let us tell you.

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HOME CIRCLE



Her Looks. Little dabs of powder. Little specks of paint. Make my lady's freckles Look as if they ain't.

To bleach any kind of white goods that have become yellow, soak for a few days in buttermilk.

When baking potatoes, either sweet or Irish, grease them a little before putting them in the oven.

If you wish plants, such as geraniums and begonias, to branch, tie a piece of sponge on the leaf scar where you would like to have the branch.

It is said that a particle which has become lodged in the eye, can be removed by slicing off a small piece of raw potato and putting it into the eye.

The news that front closing in both one-piece gowns and blouses is growing in favor, will be welcome news to many who have struggled with the back closings for several seasons.

Wet newspaper is a great help on sweeping days. Take the paper and wet it in hot water, then squeeze it until it stops dripping.

Now is the time to get your bulbs planted if you are planning to have them in bloom during the winter.

there is a great variety of color to be had. One of the first essentials to healthy plants is good, rich soil, and this is as true for house plants as for those grown out doors.

Bulb Culture.

Dutch bulbs are getting so common and there has been so much written about them, I am often in doubt but what the reader may understand how to care for them better than do I.

I believe it pays to set bulbs in pots and put away in a cool dark place, early. You put away to let the bulb root, why not give it time to form a strong feeding apparatus?

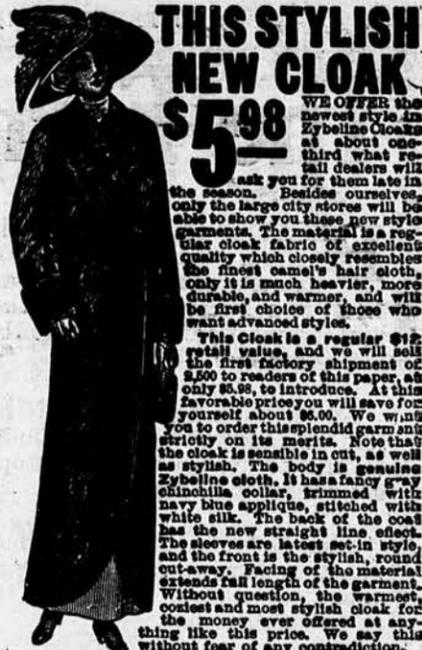
We have three pattern orders to which no signatures are attached. One from Nortonville, Kan., No. 5128,24; one from Kansas City, Kan., No. 5430,8;



No. 5562. Ladies' Waist.—In this dainty model we have one of the more dressy styles which will be excellent as part of a three-piece suit.



No. 5071. Children's Dress.—A simple dress for a little girl may be very easily made from No. 5071, which is cut with body and sleeves in one, and is to be slipped on over the head.



THIS STYLISH NEW CLOAK \$5.98

WE OFFER the newest style in Zybeline Cloaks at about one-third what retail dealers will ask you for them late in the season.

We Guarantee Every Cloak to Suit. Our special introductory price for this exclusive garment, in genuine Zybeline, is only \$5.98.

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We offer newest styles in Chase's Pony Skin or Caracul Special Quality Cloth COATS, guaranteed to be the most serviceable cloth made in this class of goods.

DON'T WAIT if you want this big bargain at \$4.95. Order No. 5K416.

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# POULTRY



Preparations for winter are now in order.

The first requisite is to see that the poultry house has been thoroughly cleaned and renovated.

By this we mean that all the filth in the house has been removed and the place whitewashed and fumigated.

The next thing to do is to see that all cracks and crevices have been battened, so that no drafts may fall on the fowls.

If you have a perfectly tight poultry house, no artificial heat is necessary; in fact it is claimed to be deleterious to the health of the chickens.

Some kind of material for covering the poultry house floor should be provided, such as cut straw or hay or plenty of leaves. These must be renewed several times during the winter.

A supply of vegetables, such as turnips, cabbage, beets, etc., should be provided so that the fowls may have plenty of green stuff to last them till green grass comes again in the spring.

A supply of dusting material should be on hand, such as dry earth, ashes, or road dust, so that the fowls may have the means whereby to keep themselves free from lice and mites during the long winter months.

Other accessories are grit and charcoal, things very essential for the health and well being of the fowls, especially where they are penned up, for there is no chance for them to pick up any grit, as there is when they have free range.

As to the feeding of the fowls during the winter, it will make a difference which branch of the business you are in; whether you keep fancy poultry or whether you have the common kind and want all the eggs you can get.

If you keep pure-bred poultry and wish to have plenty of eggs for hatching in the spring, it is not necessary to feed them extra heavy. Only enough to keep them in good health and condition, until about a month before you want the eggs, then feed all the nourishing and egg-making food the chickens can stand.

If on the other hand you want all the eggs you can get during the winter for market purposes, you must feed heavily from the start and keep it up all winter. Hens won't lay eggs in cold weather without an abundance of food. They must have not only enough to sustain their bodies, but a surplus for the production of eggs. The colder the weather is, the more food they require, for it takes extra food for the warmth needed to counteract the cold weather.

A French naturalist has submitted to the Academy of Sciences the result of his researches into the effects of different forms of diet on poultry. He says that ducks that were fed on fish began to lay when they were about seven months old. Eight days later the ducks that were fed on meat began to lay. Those that were fed on vegetables did not begin to lay until two and a half months after that, when they were about ten months old. Between December 17 and May 14 the ducks that ate fish laid 54 eggs; those that ate meat, 45 eggs, and those that ate vegetables, 19 eggs. Moreover, the weights of the eggs differed; those of the meat-fed birds were the heaviest, those of the vegetarians next, and those of the fish-fed birds were the lightest. It would be out of the question to think of a fish diet for poultry in an inland state like Kansas, where fish is at a premium; though a desiccated fish can be bought in the east that is cheaper than meat scraps. One thing we can learn from the experiment, that an addition of fish or meat to the vegetable and grain rations of fowls will undoubtedly increase the egg production.

**Ducks in China.**  
There are more ducks in China than in all the rest of the world. China, literally, is white with these birds, and day and night the country resounds with their metallic and scornful voices.

Children herd ducks on every road, on every farm, on every pond, on every river. There is no boat, little or great, without its duck quarters.

Even in the cities of China, ducks abound. They dodge between the coolies' legs. They fly squawking out of the way of the horses. Their indignant quack will not unseldom drown the roar of urban commerce.

All over the land there are great duck hatching establishments, many of them of capacity huge enough to produce 50,000 young ducks every year. Duck among the Chinese is the staple delicacy. It is salted and smoked like ham or beef.

**To Increase Egg Laying.**  
A significant statement in Secretary Wilson's report shows that investigations are now being made by the Department of Agriculture in conjunction with the Maine Experiment Station with a view of developing a strain of chickens with increased egg-laying capacity. Several hens have been found to lay more than 200 eggs in one year, and the results seem to indicate that by selecting and proper feeding the best layers for breeding purposes the average egg yield of a flock can be increased.

Poultry, says the secretary, is one of the steady and helpful services of farm income. Movements are already on foot which may be expected to increase the egg production per hen by at least a dozen a year within a generation, and there are poultrymen who are not enthusiasts who foretell double that increase. If the hens of this year had each laid a dozen eggs more than they did, the prediction is made by Secretary Wilson that the increased value of this product would have been possibly \$50,000,000.

With eggs as low as a cent apiece—a very cheap and nutritive food—a well-bred hen laying 200 eggs a year, as developed at the Maine station, will have a value of \$2. An estimate is made that \$1 a year will keep her in comfortable if not luxuriant quarters. The trouble is that millions of barnyard scrubs do not yield a hundred eggs a year. If one wants to obtain eggs from his hens it is necessary to have healthy, vigorous stock, properly fed. To do their best, hens should be fed grain, animal and green food. They should be fed enough to keep them in good condition but not overfat, and should be induced to take plenty of exercise.

A good system to follow for winter feeding is mash once a day and grain scattered in the litter twice a day. The mash may be fed dry or slightly moistened. When the former, it is usually put into a trough or hopper hung against the wall, fowls allowed to have access at all times. A mash at the Maine station is as follows: Two hundred pounds wheat bran, 100 pounds each of cornmeal, wheat middlings, linseed meal, gluten meal and beef scraps. Another mash may be mixed as follows: One hundred pounds each of cornmeal, ground oats and wheat bran.

**Farm Whitewash.**  
The Australians use a whitewash which it is claimed will not rub off. It is prepared in the following manner: Dissolve two pounds ordinary glue in seven pints of water and when all is dissolved add six ounces of bichromate of potassium dissolved in a pint of hot water. Stir the mixture up well, and then add sufficient whiting to make it up to the usual consistency and apply with a brush in the ordinary manner as quickly as possible. This dries in a very short time, and, by the action of light, becomes converted into a perfectly insoluble waterproof substance which does not wash off even with hot water and at the same time does not give rise to mold growth, as whitewash made up with size often does. It may be colored to any desired shade by the use of a trace of aniline dye or powder coloring, while by the addition of a small proportion of calcic sulphite its antiseptic power is much increased.

## More Money in Making Sausage than in Selling Hogs on the Hoof — Use Enterprise Machines

Market conditions for farm-made pork products were never better than right now. Don't lose several dollars per hog by selling them alive. Cut them up yourself. Use an Enterprise Meat AND Food Chopper—and a combination Enterprise Sausage Stuffer and Lard Press and realize the most money out of your hogs.

### The ENTERPRISE Meat AND Food Chopper



enables you to make the sweetest, juiciest and most nourishing sausage meat you ever produced.

The big use for a chopper is to cut meat, less frequently to cut other food. But both are important. Therefore, be sure you get a *Meat AND Food Chopper*. It's useful not only at hog-killing time—but always useful in the kitchen. The exquisite dishes you can prepare from left-overs and bits of food that otherwise would be wasted are a source of delight to the family that lives well. It also contributes so much to economy in furnishing the table that it is really indispensable. It repays its cost almost every week in the farm home.

There are lots of choppers that cut meat by crushing and mangle it, but only one that really cuts—the ENTERPRISE Meat AND Food Chopper. Has four-bladed knife—four cuts at every turn of the handle.

"ENTERPRISE" Meat AND Food Choppers are made in 45 sizes and styles for hand, steam and electric power. We also make cheaper food choppers, but recommend the above.

No. 5. Family size : : : \$1.75  
No. 12. Farmers' size : : : 2.25  
No. 22. Farmers' size : : : 4.00

"The Enterprising Housekeeper," 200-Recipe Cook Book, sent for postage, 4c. Enterprise specialties are for sale at hardware and general stores everywhere.

### The ENTERPRISE Sausage Stuffer and Lard Press

makes failure entirely a thing of the past in sausage making. It prevents air bubbles—and air bubbles are the main cause of sausage spoilage. To have good sausage *always*—keep out the air. It can be done surely and easily *only* by using an Enterprise Sausage Stuffer with the patented corrugated spout. Other machines offer corrugated spouts—but such corrugations are more for looks than for any practical purpose, for the corrugated spout of the ENTERPRISE is patented and cannot be used or imitated by any other machine. It can be had only with the Enterprise Sausage Stuffer and Lard and Fruit Press—three machines in one. The change to either use is instantly made. They can be had in 9 sizes and styles—up to eight-quart capacity. All are accurately machined. Plate fits closely without binding. Meat does not squeeze out. These presses are an absolute necessity at butchering time. Illustrated catalogue on request.



No. 25. 4-Quart Japanned Price, \$5.50 Tinned and Japanned

**THE ENTERPRISE MFG. CO. OF PENNA.**  
Dept. 56, Philadelphia, Penna.

## WANTED!

The name and address of every possible gasoline engine buyer who reads this ad. Send me your name *quick* for my latest *special offer* on the *best* gasoline engine that ever turned a wheel. Let me tell you how you can

**Save \$50 to \$300**

real cash, according to the size engine you need—sizes 1 1/2 to 15 h. p. Don't doubt—write me now. You never lost anything by getting information. Why shouldn't you deal with me direct—the manufacturer—and keep in your own pocket the dealer's and jobber's profits! Get your engine fresh from the paintshop—fully tried out and tested. You simply must get my offer—and see my big four color catalog. Don't wait—write your postal or letter NOW before you turn over this page.

Wm. Galloway, President, THE WM. GALLOWAY CO., 3858W Galloway Station, Waterloo, Iowa  
REMEMBER—We carry stocks of all our machines at Chicago, Kansas City, Council Bluffs and Minneapolis—insuring prompt shipment.

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## Biggest Stumps Pulled For 4c Each—In 5 Minutes!

E. C. Culbreath, Johnston, S. C., does it. Thousands of others doing it. Why not you! Pull an acre of stumps a day. Double the land value—grow big crops on virgin soil! Get a

### HERCULES

—the only all steel, triple power stump puller made. More power than a locomotive. 60% lighter, 400% stronger than cast iron puller. 30 days' free trial. 3 year guarantee to replace, free, castings that break from any cause. Double safety ratchets. Free book shows photos and letters from owners. Special prices will interest you. Write now. Address Hercules Mfg. Co., 1103 21st St. Centerville, Iowa

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You furnish the rig—we furnish the goods. You establish a permanent trade with farmers of a whole county. Sell the goods on free trial, "pay-when-satisfied" plan. Forty different articles. Medicines, extracts, soaps, toilets, spices, stock and poultry necessities, etc. Every article a repeater and a money getter for agents. Good commissions paid every week. Two hundred positions open to men in good physical condition who are able to give bond and furnish good team and wagon. You can learn all about it by asking for our free book.

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# BARGAINS IN LAND

## FREE A PLAIN TALK FREE

is the title of a booklet which we issue. It is a Straight-from-the-Shoulder, Heart-to-Heart, Common Sense Chat. It is the account of a successful Developed Colony—the Story of Big Four Colony and the thriving Town of Big Wells, located in Dimmit County, Southwest Texas. It outlines our ideas, methods and plans of honest and successful Town and Community building. It is Free to every man who honestly contemplates a change of location and wishes to acquire the Best that Country affords in Soil, Water, Climate, Products and Health. Here are some of the topics which will prove interesting to the Home-Seeker:

"Modern Town and Community Building," "Modern Pioneering," "A Self-Supporting Community," "A Self-Sustaining Town," "What We Did," "The Man of Modest Means," "The Things that Make or Un-Make Towns and Communities," "What Big Wells is Today," "Some Things it Has," "Some Things it Needs," "Saving and Investing," "Every Buyer's Property Inspected," "Plan of Sale," "What We Tell Our Agents to Tell Others," "Big Four Colony Maxims," and others.

### WRITE FOR THIS BOOKLET TODAY

Of the 60,000 or more subscribers of KANSAS FARMER, it is safe to estimate that 6,000 of them desire to change location, get into a new country, acquire cheap lands and enjoy the prosperity which they know they desire. If you are one of this number, clip, sign and mail us the Coupon today. It does not obligate you to invest. HOWELL BROTHERS CO., SAN ANTONIO, TEXAS.

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Town.....  
Without any obligation upon my part to invest, please mail me your "Plain Talk Booklet." I am thinking of locating in a new country, and want to know more about Southwest Texas. Name me price and terms on ..... acres in

Big 4 Colony. I will endeavor to visit you about (date).....  
If convinced that it will pay me to investigate your proposition. Send me also your State Map, Testimonial Folder and the Big 4 Picture Book.

Mention Kansas Farmer when writing. Name .....

## DICKINSON COUNTY BARGAINS

We have many fine river and creek bottom lands and also fine upland farms for sale. Good wheat, corn and alfalfa lands at reasonable prices. Write for lists. Mention **BEINEY, PAUTZ & DANFORD, Abilene, Kansas.**

**WE MATCH TRADES FOR OWNERS**—List your property with us and let us match it. **OWNERS' EXCHANGE, Salina, Kan.**

**BARGAINS** in Ness County land, large and small tracts. Write now for lists and literature. **C. H. Brassfield, Ness City, Kan.**

**FARM BARGAIN.** 235 acres, 4 miles from Garnett, Kan., 85 miles to K. C. A snap at \$36 per acre. Must go in next 30 days. **SEWELL LAND CO., Garnett, Kan.**

**240 ACRES,** 4 miles from Coffeyville, 50 acres in alfalfa, creek runs through, all fenced hog tight, well improved, \$62.50 per acre. **ELLIS & MORGAN, Coffeyville, Kansas.**

**BUY FROM OWNER.** Eight farms for sale; two 80's, three 160's, one 200, one 400, and one 176, all in Allen County, close to town. **H. M. BURTIS, Humboldt, Allen Co., Kan.**

**WHEAT FARM FOR SALE.** 240 a. wheat farm, well improved, 120 a. in cultivation, good orchard, all fenced. Easy terms; priced right. **FOWLER & DRAGOO, Lucas, Kan.**

**WEST FLORIDA LAND FOR SALE**—2,500 acres, with oyster water front, 19 miles from Pensacola, 1 mile from R. R. station. Very fertile. No swamp all tillable. Location and soil considered the best tract of land in west Fla. The tract at \$15 per acre. Save this ad. Address the owner, **G. W. SOULE, Camp Walton, Florida.**

**FOR SALE - SPLENDID 240 ACRES** Smooth prairie land, deep rich soil, pasture, meadow, spring and well water, orchard, good buildings, location fine. Can divide. Deal with owner. A bargain. **S. C. BEWICK, Nevada, Mo.**

**BARGAIN**—Improved Logan Co., Kan., 160 alfalfa, stock and grain farm, 5 miles railroad station. Price, \$2,500; \$1,000 cash, balance time. Also 10 acres Florida Everglades, \$300, payable \$10 per month. **H. M. DAVIS, Ft. Lauderdale, Fla.**

**BARGAIN.** Forty acres, 2 1/2 miles from depot, 3 miles from Baker University. Good soil, large brick house, fine cellar, good well and wind mill, fruit, barn, and other outbuildings. Price, \$4,000. Write for list. **WM. M. HOLLIDAY, Baldwin, Kan.**

**240 ACRES,** 1 1/2 miles to Oskaloosa, the county seat of Jefferson Co., 210 acres tillable, good soil, good and plenty water, 55 acres now in wheat, wheat to go with farm. Improvements: Fair house, two barns, one new, 34 by 50 ft. two corn cribs, new, 12 by 30 ft., cattle shed, 32 by 24, new, granary, 12 by 20, small orchard. Price, \$75 per acre, if sold soon. No trades considered. **FORD & WEISHAAR, Oskaloosa, Kan.**

**FOR SALE**—Blacksmith shop and tools, 1 lot, dwelling house, 3 rooms, and two lots, 50x135 ft., for \$1,100. In a real live town, 55 miles from Denver. No competition. Besides this I have some of the best land bargains in Eastern Colorado. Homestead relinquishments from \$300 to \$1,000 for 300 acres, and deeded land from \$7.50 to \$20 an acre. We raised from 20 to 30 bushels of wheat to the acre here this year, and corn 30 to 40 bushels. **HARRY MAHEE, Deer Trail, Colo.**

### READ THIS.

270 a. good, well improved stock farm, 4 1/2 miles from Garnett, Kan., 2-story, 7-room house, with well at door; cellar, new large barn and stallion stable, and other outbuildings, 175 a. in cultivation, 40 a. in bottom, just sowed to alfalfa this fall, 40 a. prairie mow land, balance pasture, plenty of fruit, well fenced, has 10 a. of fine walnut timber, creek runs alongside, good limestone, lays so as to drain well. This is a fine, slightly, shady place, 1 mile to school, phone and R. F. D. Price, \$65 per a.; 30 days option; no trade. Can make easy terms. Address

**W. L. MORRIS,**  
Owner's Agency, GARNETT, KAN.

**12,000 ACRES** Logan, Gove and Thomas County lands; 160 to 2,000-acre tracts; \$7 to \$20 per acre. **Attwood Real Estate Co., Oakley, Kan.**

**STEVENS CO. KAN., WANTS YOU**—New railroad building, fine water, fine climate, improved farm land, \$10 to \$20 per acre. **J. A. THOMPSON, Niagara, Kan.**

**"EVERYBODY IS DOING IT."** Doing What Listing their merchandise for trade. We make offer by return mail. **OWNER'S SALE AND EXCHANGE, Independence, Kan.**

**BARGAINS.** 160 acres.....\$25 per acre  
160 acres.....\$20 per acre  
80 acres.....\$30 per acre  
**J. D. BENEAU, La Cygne, Kansas.**

**CHOICE SOUTHEASTERN KANSAS** farms, \$30 to \$50. Large list. **M. T. SPONG, Fredonia, Kansas.**

**BUY FROM OWNER.** We have a list of farmers who wish to sell. Will introduce you, and you buy direct from them. If interested, write **H. M. Burtiss & Co., Humboldt, Allen County, Kansas.**

**A BARGAIN.** 160 acres, 2 1/2 miles town, large house and barn; fine soil, 100 acres wheat with place, \$2,500 to \$2,500 down, balance 3 years at 6 per cent. A fine farm, cheap. **I. R. KREHBILL, Geneseo, Kansas.**

**COME QUICK** and look this one over: 160 acres, well located, good soil, 130 under cultivation, well and mill, fenced. Price, only \$14 per acre. Terms to suit. Other bargains. List on request. **MARRS & DAY, Meade, Kan.**

**FOR SALE**—590 acres adjoining the city of Chanute, Kansas. Fine improvements, all rich bottom land, 70 acres alfalfa, all good alfalfa land. The entire farm is leveled. \$60 per acre. Write or call. **J. F. Brinegar Realty Co., Chanute, Kan.**

**Get an Oklahoma Farm on Payments.** Oklahoma farm lands to actual settlers, with or without cash payment down, balance in yearly payments. Over 100 farms to select from. **Joseph F. Leche, Wynnewood, Okla.**

**160 ACRES,** 3 miles Harris, Kansas; 110 acres cultivation, balance pasture; buildings poor. Price, \$12,000; mortgage, \$3,000. Wants merchandise. **80 acres Colorado, 3 miles town. All can be irrigated. No improvements. Price, \$5,000. Wants hardware. SPOHN BROS., Garnett, Kansas.**

**THERE IS NO HURRY, TAKE YOUR** time, as the Independent Benevolent and Educational Association has always on hand bargains in real estate. Inquire about the **DIVIDED RISK** plan in real estate. **I. B. E. A., Box 247, Holington, Kan.**

**160 Acres Arkansas Land,** 5 miles from county seat; one 4, one 3 and one 2-room house; barns and wells; 75 acres in cultivation. A bargain if taken at once at \$2,000. Terms on half. Write **FRANK BATES, Waldron, Ark.**

**OUR BEST.** 365 acres, 4 miles from town, two quarters, 1 mile apart, owned and operated by one man. Two good sets improvements; every foot tillable. Price, \$65. Must be seen to be appreciated. **DONAHUE & WALLINGFORD, Mound Valley, Kan.**

**LOWER YAKIMA VALLEY, WASH.** 20 acres at Richland, Benton County, Wash., on the Columbia river, highly improved, irrigated orchard tract set to best varieties of commercial apples, with peach and pear fillers. Trees 4 years old and will come into bearing next year. Best of soil, abundance of water and mild climate, 4 acres of strawberries paying \$400 per acre; alfalfa yielding 4 cuttings, or 8 to 10 tons per year. Comfortable home and good barns with a well equipped dairy and 10 grade Jersey cows. For particulars, address owner, **C. D. Mitchell, Richland, Wash.**

**LOTS** in Plains, Kan. Residence and business. Cheapest locations. Prices, \$17.50 to \$50 now. Will advance rapidly. Easy monthly payments. A Postal for full information. **JOHN W. BAUGHMAN, Plains, Kansas.**

**Eastern Kansas Farm Bargain**

Forty acres, 1 1/2 miles from railroad town; 30 acres in cultivation, 3 acres orchard, balance pasture; farm all smooth; 4-room house in good condition, barn 30x36 with loft, corn crib, hen house and sheds; good water; close to graded school, R. F. D. and phone. Price, \$2,500, for quick sale. **J. C. BAPP & CO., Osage City, Kansas.**

**Will Carry 500 Cattle** 2,000 acres, 4 miles from Kingman, Co. seat, 800 in cult., 3 sets improvements, 150 acres alfalfa. Price, \$55, half cash. **JOHN F. MOORE LAND CO., Kingman, Kan.**

### A Fine Stock Proposition

800 acres, 3 miles from railroad town, Ness County, Kansas. 35 acres alfalfa, 150 acres under cultivation; 6-room house, barn, granary, all fenced, good well at house, spring in pasture. Is a bargain at \$20 an acre; part time, 6 per cent, if desired. Write **Jas. H. Little, the Rush County Land Man, La-Crosse, Kansas.**

**FARM BARGAIN.** 240 acres, mostly upland, 120 acres in cultivation, a part of which is low alfalfa land, 80 acres in pasture, 40 acres good prairie meadow, 5-room house, barn, chicken house, granary, good family orchard, 2 wells and windmill, 1 mile to school, 6 miles from Salina, good road to town, nice dairy proposition. Price, \$11,000. No trade. Write for free list. **V. E. NIQUETTE, Salina, Kan.**

**MUST SELL QUICK.** Osborne County Estate, 320-acre farm, finely improved, 1/2 mile town, creek bottom, bearing orchards, 50 acres alfalfa, ideal home for stock buyer. Write **J. F. BAUM, Natoma, Kan.**

**\$ DOLLARS SAVED \$** If you purchase land of Joslin, "The Land Man," Hugoton, Kansas. 160 acres smooth levee buffalo land, \$8 per acre, one-half cash, balance five years at 6 per cent.

**WANTED**—A partner to take a half interest in and full management of a hay and cattle ranch, 1000 acres, 4 miles from sugar factory. Perpetual range on national forest. **EUGENE L. STROUP, Monte Vista, Colo.**

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**Some Wire Fence Advice.** Fences are a very important item on a farm, and should not be skimped. Learn all you can about them—how they are made, what kind of wire is used, and then buy wisely by choosing the fence of proper construction, right design, and made of the heaviest wire you can afford. Heavy wire carries considerably more galvanizing in proportion to its size than light wire, and is the cheapest in the end, besides having greater strength. In this connection, because a fence shows rust does not always mean that its effectiveness is impaired. This is particularly true of fence made of Open Hearth wire. The method of making this wire is much slower than other methods, but it permits closer watching and better mixing, and so the wire is of uniform texture clear through. Corrosion won't hurt this kind of wire for a long time, as the inside of it is just as strong and good as the outside. Other kinds of wire lack this feature, which is an important one to consider. Write to the leading fence manufacturers, among them the Pittsburgh Steel Co., Pittsburgh, Pa., mentioning this paper when you write, for their descriptive literature, and read every bit they send you. You will gain much valuable information and be better able to judge fence. When you go to buy it, first find out what kind of wire is in it, what kind of galvanizing it has, and see that the joints are immovable and have no projecting wire ends which injure stock, that the spacings are right for your purpose, and then when all these points are settled, choose a heavy gauge wire.

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## Michigan Silo View.

The silo, as viewed from the standpoint of E. E. Rockwood, a Michigan correspondent, is:

"A number of years ago a skeptical man remarked in my hearing that silos were all right for the rich man, but too expensive for a poor one. The test of time has proved that this was a poor argument. The silo has made prosperous a good many who were not very well off prior to the time they put up their first one. The facts of the case were these: They were not farming right. They were in debt, trying to pay off a mortgage in the old general-purpose way of managing. Their land was not increasing, but rather diminishing in fertility. They depended on hay for a large portion of their cash sales. They could see that the dairy was a good thing, and decided to try it. With a silo to help, they figured they could make more out of the corn crop and save on the consumption of hay, leaving more to sell. Some had poor luck with silage at first, as imperfect methods resulted in considerable loss. But one success in a neighborhood usually sets all the farmers to thinking, and this does more than anything else to boom the silo. There are men in this county today who have paid off a mortgage with the help of a silo and a herd of cows. Some of these men are still selling a little hay, but they maintain the fertility of the soil because they keep more stock than by the old way and practice a regular rotation of crops. As for feeding a dairy herd without silage, no one would dare to think of attempting such a thing."

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The most effective method of preserving fence posts is to thoroughly impregnate the outer layers of wood with some preservative which will poison the wood and deprive the fungus plant, which causes wood to rot, of its food. The cheapest and most effective is creosote. It is not only poisonous to the fungus plant, but being an oil, its tendency is to exclude moisture from the wood. Most patented wood preservatives have creosote as their base.

The treatment is best given by the open tank method. Thoroughly seasoned posts are heated for several hours in hot creosote, then allowed to cool down in cold creosote. In the hot treatment the high temperature causes the air and water in the wood to expand so that a large portion of this is forced out of the wood and the creosote takes its place. When the posts are placed in the cold creosote the air and water left in the wood contracts, forming a partial vacuum and the creosote again forces its way into the wood. This treatment forms a shell of creosoted wood from one-eighth to two inches in thickness, around the post, depending upon the kind of wood treated.

The simplest form of treating tank would be that of an iron tank 3 1/2 to 4 feet high and 3 feet in diameter, set over a stone or brick fire-place with a smokestack extending above and outside the tank. An old iron boiler can often be found that will answer the purpose. A galvanized iron tank has too thin bottom to permit hard usage. Creosote is highly inflammable and should be shielded from the open fire.

In either case a strong false bottom should be placed in the tank for the posts to rest on. The posts should be as thoroughly seasoned as possible before treatment. All bark should be removed. About 40 inches of the lower end of the post is treated, thus allowing the treated portion to extend 6 to 8 inches above the ground surface. It is at the ground surface where decay takes place most rapidly. Unless the posts are of very perishable wood it is not usual to treat the top of the posts, but this can be done by inverting the posts in the tank.



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**FOR SALE**—A 3-weeks-old Jersey bull calf, sired by Omeris Eminent, and out of our best Golden Lad bred sow. Sold his full brother to J. A. McCoy, of Newton, last year for \$50. Same money will buy this one. Write quick if you want him. **JOHNSON & NOEDSTROM, Clay Center, Kan.**

**REGISTER OF MERIT JERSEYS.**

The only herd in Kansas that makes and keeps official records. **FOR SALE**—Two extra choice yearling bulls sired by Imp. Oakland Sultan. They are out of tested 500-pound cows. Also 25 choice heifers and a few tested cows. Inspection invited. E. J. LINSOTT, Holton, Kansas.

**REGISTERED JERSEY BULL.**

**BLUE BELL'S BOY** No. 75800, half-brother to Noble of Oaklands; 5 years old; gentle. Price reasonable. J. S. TAYLOR, Iola, Kan.

**JERSEY BULLS.**

Young grandsons of Golden Fern's Lad P., 2160 H. C., grandson of show cow, Boom Nigretta 116131. Sons of the Owl's Champion 85990, and richly bred Tormentors. **WM. H. BRUNS & SONS, Concordia, Mo.**

**BANKS' FARM JERSEYS**

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

**JERSEY BULLS.**

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

**ANGUS CATTLE**

**High Class Angus Bulls**

Six Angus bulls and a few females for sale. Choicest breeding. 230 in herd headed by Undulata Blackcap It 2d, Black Lad 2d and Woodlawn Blackbird Prince, all Blackbirds. None better. Prices right.

C. D. and E. F. CALDWELL, Burlington Junction, Mo.

**SHORTHORN CATTLE**

**TENNISOLM SHORTHORNS**—Pure Scotch and Scotch topped Bates families. Bulls in service, Royal Ghoster and Col. Hampton. A few young bulls of extra quality on hand; also, some females. Prices low for early sale. E. S. MYERS, Chanute, Kan.

**GALLOWAY CATTLE**

G. E. Clark. W. W. Dunham. **CAPITAL VIEW GALLOWAYS** 12 Miles West of Topeka. A choice lot of bulls 10 to 20 months old, by imported and American bred sires. They will please you. Address **CAPITAL VIEW RANCH, Silver Lake, Kan.**

**GUERNSEY BULLS FOR SALE**

Zetas Prince of Lakeview 19004, 14 months old; Xerxes of Lakeview 19070, 15 months old; Apis of Lakeview, 19075, 16 months old. The dams of the above bulls are half-sisters, each having made her A. R. record at age of 12 years, which shows a strong family trait. The records run from 480 pounds to 503 pounds, which is remarkable for 12-year-old cows. If they had been tested at 7 years old they would have gone into the 600-pound class. The sires of the above bulls are Ukiah by Starlight Excelior, who has 14 A. R. daughters; Imported Galaxy's Lavinus by Imported Galaxy's Sequel, the best son of Masher's Sequel, and Bonnerlius, whose sire has 9 A. R. daughters, and whose ancestors have 32 A. R. records to their credit.

On account of being overstocked, I will sell at reduced price. A full brother to one of these calves was sold last year for \$260. **LAKE VIEW FARM Greenwood, Missouri**

**HEREFORD CATTLE**

**HEREFORDS FOR SALE**

Ten choice, richly bred bulls, from 8 to 18 months of age. Also, few young cows and heifers. Plenty of size, extra good heads, with horns to match, and elegant coats.

**WILLIAM ACKER**

Vermillion, Marshall County, Kan.

**POLLED DURHAM CATTLE**

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

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

**RED POLLED CATTLE**

**PHILIPS COUNTY RED POLLS.**

For Sale—Cows and heifers, sired by the great Launfal and bred to Cremo 22d. Five excellent bulls from 3 to 18 months, some out of 60-pound, 5 per cent cows. Chas. Morrison & Son, Phillipsburg, Kan.

**RED POLLED CATTLE**

A few choice bulls, ready for service, priced reasonable. I. W. FOULTON, Medora, Kan.

**SHROPSHIRE SHEEP**

Shropshire sheep and Poland China hogs. Choice rams, ready for service, priced right. A number of extra good Poland China fall gilts, priced to sell quick. Write for prices. **JOS. POTTERMAN, CLARKSDALE, MO.**

**Shropshire Rams Cheap**

Registered rams from imported rams. Get my Ram circular. E. E. LAUGHLIN, Rich Hill, Mo.

**ELLIOTT'S SHROPSHIRE**—Butter and Dakin rams at head of flock. Imported ewes from best flocks. A high-class lot of yearling lambs for sale. Also imported ram Butter 842. Prices right. J. W. ELLIOTT, Polo, Mo.

**THE STRAY LIST**

**CARSON LANE, COUNTY CLERK,** Miami County—Taken up, by H. B. Middlemass, Paola, Kan., R. R. 5, on August 23, 1912, one 4-year-old heifer, red and white spotted, dehorned, and with wire cut one left front leg. Value, \$40.

**Miller's Poland Chinas.** Mr. F. J. Miller, of St. John, Kan., is offering a lot of choice spring boars at farmer prices. Also, a few bred sows, very reasonable. Please read advertisement in this issue and write your wants.

**Farlow's Poland.** E. S. Farlow, Poland China breeder, of Rydal, Kan., has a very choice line of spring pigs, both boars and gilts. He is making reasonable prices and guarantees to suit. His are the big, smooth sort, and the pigs have been well grown. Write him.

**Crow's Durocs.** W. R. Crow, of Hutchinson, Kan., starts a card in this issue. Mr. Crow is offering 20 choice spring boars from his show herd and 20 choice spring gilts, all priced very low for quick sale. Please look up advertisement and write Mr. Crow for description and prices.

**Flewing Fourteen Inches Deep.** A number of neighbors of George Hughes were interested spectators recently at the demonstration of his new deep tilling disk plow. Hughes is much pleased with the work of the plow, which plowed to a depth of 14 inches in the hard soil of his upland farm north of Topeka. Four horses were used, though five is the usual number employed in working this machine.

**American Shorthorn Book Ready.** Volume 73 of the American Shorthorn Herd Book is just received from the press, and contains pedigrees of 8,000 bulls numbered \$42,001 to \$50,000, and of 12,000 cows numbered \$101,001 to \$114,000. The price of this volume to non-members of the Association is \$2.30, postage paid. Address Roy G. Groves, Stock Yards Station, Chicago.

**Gold Metal Bred Unexcelled.** It is doubtful if there was ever another Poland China boar bred and owned in Kansas whose get was more sought after than that of the noted Gold Metal. The place to buy his get from as good sows as the breed affords is at the Hilderman dispersion sale, at Burchard, Neb., Tuesday, October 1. The offering is an unusually good one and should be watched by breeders that want the best.

Duroc breeders should not overlook Fred W. Lahr's Duroc sale at Corning, Iowa, on October 12. This will be a choice offering of spring and fall yearling boars and spring and yearling gilts. Nearly all of the offering is sired by Lahr's Col. by King of the Col. by King of Cols. It is an offering that will improve any herd, and is in a condition to make good as producers. If you want good ones, arrange to attend the sale or send a bid for what you want.

**Leeper's Big Poland.** Out there in Kansas, where resides Mr. J. W. Leeper, the man who knows how to mate and feed successfully to produce the well balanced big Poland China, conditions are fine this year. Piles of corn and but few hogs. No disease and ideal weather. Mr. Leeper has some outstanding young boars that he will price right. Remember Mr. Leeper's success at state fairs last year, and write him at Norton, Kan. Mention Kansas Farmer.

**Special Horse Offering.** F. T. Grimes, manager of the big Alkena Ranch at Emmett, Kan., is offering 100 head of horses, mules and ponies at attractive prices. The business of this ranch is to raise animals of different breeds for sale to farmers and other interested parties. Mr. Grimes has lately been offering several hundred head of beef cattle and still has a considerable number of Shropshire breeding ewes for sale. Alkena Station is on the Marysville branch of the Union Pacific and is located on the farm, but the postoffice is Emmett, Kan.

**Immune Poland Chinas.** J. I. Griffiths, the big Poland China breeder of Riley, Kan., changes his advertisement this week and offers spring boars old enough for service, also choice fall pigs in pairs and trios, at popular prices. Mr. Griffiths guarantees everything immune from cholera. He writes that everything is doing exceptionally well and that he never had spring pigs do better at this season of the year. Mr. Griffiths says that he is showing his hogs at the Riley County fair this year. If in need of something first class, write him at once. He has the goods and will treat you right.

**Black & Thompson's Big Poland.** Messrs. Black & Thompson of Hopkins, Mo., report their herd of big-type Poland doing nicely. Their offering for their November 2 sale will be one of the outstanding good offerings of the season. They have the big, smooth, mellow, easy feeding, quick maturing kind, and the most remarkable for its size and quality. Their herd boar, Longfellow King 55748, is conceded by all critics to be one of the best if not the best boar ever sired by Long King. Watch for their sale announcement in Kansas Farmer.

**Lobaugh Buys Boar.** Mr. A. C. Lobaugh, Washington, Kan., reports the purchase of an outstanding young boar sired by "Big Orange," the young boar owned by Mr. McClarnon, of Braddyville, Ia. His dam was by "Big King 4th," a son of the noted Pawnee Lad. Mr. Lobaugh thinks he has made an excellent investment and is sure the pig will develop into a very large boar. Mr. Lobaugh says the stuff that goes into his November 9 sale is doing well, and will be in fine condition sale day.

**Hartman Offers Boars.** J. J. Hartman, the big Poland China breeder located at Elmo, Dickinson County, Kan., has decided not to hold a fall sale, and offers all of his choice spring boars and a few fall boars at private sale. They are the best Mr. Hartman has ever raised and were sired by his great breeding boars "Blue Valley, Jr." and "Hartman's Hadley," the best son of the only Nox All Hadley. These boars are out of very large sows and have been well handled for good results. Mr. Hartman is making special prices for a short time. When writing him, mention Kansas Farmer.

**Thompson Brothers' Durocs Win.** Thompson Brothers, Duroc Jersey breeders of Garrison, Kan., made a great hit with their Durocs at the Topeka State Fair recently, winning first on the 2-year-old sow, Golden Queen, by King Raven, defeating the sow that won grand championship at Iowa this year. They also won second on young herd, second on young herd bred by exhibitor, and second on aged herd bred by exhibitor. Third on junior yearling sow also went to this herd. Eight entries were the smallest in any one class, and some of the most experienced breeders and showmen from three states competed. The outstanding fine young boar, Gold King, headed the young herd, and attracted considerable favorable comment.

**OXFORD DOWN SHEEP.**

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

**20** Yearling and Two-Year-Old Shropshire Rams, sired by imported sire and out of registered ewes, priced right for quick sale. **ED GREEN, Howard, Kan.**

**OHIO IMPROVED CHESTERS**

**MAPLE LEAF O. I. C.** Am booking orders now for spring pigs of the very best breeding. Also a few choice gilts for sale, bred or open. Prices reasonable. Write today. E. W. GAGE, Route 5, Garnett, Kan.

**CHOICE O. I. C. BOARS AND GILTS.** HARRY HAYNES, Meriden, Kan.

**BERKSHIRE HOGS.**

**BUY THE BEST IT PAYS** Sows bred for summer farrow. A splendid lot of young boars. Write **SUTTON FARMS, Box 133 Lawrence, Kansas.**

**HAMPSHIRE HOGS.**

**HAMPSHIRE HOGS.** Bred sows, spring pigs, in pairs or trios, not akin. Pat Malony, General Allen blood lines. Prices reasonable. **F. C. WITTOREFF, Medora, Kan.**

**ECLIPSE FARM HAMPSHIRE.** A choice lot of spring pigs; pairs, trios, no akin, for sale; prices reasonable. **A. M. BEAR, Medora, Kansas.**

**HAMPSHIRE SWINE.** Some fine spring boars and a fine lot of summer pigs, all registered stock. **T. S. BURDICK, Route 3, Inman, Kansas.**

**AUCTIONEERS**

**Missouri Auction School.** (Largest in the World.) The school that gives you practice in actual sales in their own auction rooms. Next term October 7, at Kansas City. Address **W. B. CARPENTER, 14th and Grand Ave., Kansas City, Mo.**

**LAFE BURGER** LIVE STOCK AND REAL ESTATE Auctioneer Wellington - - Kansas

**J. E. BUMPAS** The Missouri Big Type Hog Auctioneer. Write for date and terms. **WINDSOR, MO.**

**EMPLOY ZAUN** for the best results. He works for the best breeders in America. Best of reference furnished. Write for dates. **FRANK J. ZAUN, Independence, Mo.**

**COL. MOSS B. PARSONS** LAWSON, MO. Pure-bred Stock Auctioneer and General Salesman. A number of years experience. Terms reasonable. Write me for dates for fall sales.

**COL. OSCAR H. BOATMAN** Irving, Kansas. Live stock auctioneer. Graduate American Auction School. Write, phone or wire for dates.

**J. R. Triggs** LIVE STOCK AUCTIONEER Valley Falls, Kansas.

**Col. L. R. Brady** Live stock auctioneer. Manhattan, Kansas. Ask about my work.

**Col. L.H. Grote** Morganville, Kan. Live Stock and General Auctioneer.

**JOHN D. SNYDER,** Kansas Live Stock Auctioneer. Write or wire for date. Hutchinson, Kan.

**R. L. HARRIMAN** LIVE STOCK AUCTIONEER. Bunceton, Mo.

**James T. McCulloch** Live Stock Auctioneer. Clay Center, Kansas. Write Early For Choice of Dates.

**W. B. CARPENTER** Live Stock and Real Estate Auctioneer 14th and Grand Ave., Kansas City, Mo.

POLAND CHINAS

JENSEN'S BIG MOGUL POLANDS

Have been making good for years. None bigger, none smoother. No dissatisfied customers, nothing shipped that is not worthy. Forty tops selected for the season's trade. If this kind suits, write us. CARL JENSEN & SON, Belleville, Kan.

GRONNIGERS' BIG POLAND CHINAS.

Herd numbers 300 head. Thirty years of successful breeding experience. All noted big type families represented. Stock for sale. Fifty head of fall yearlings, both sexes. Will be sold at our October 9 sale. HERMAN GRONNIGER & SONS, Bendena, Kan.

BIG POLAND CHINAS.

BLACK AND SPOTTED KIND. 75 spring and summer pigs for sale, priced reasonably. Public annual sale November 7, 1912. Send for catalog and come to my sale. I sell good hogs cheaper than any other breeder. Write today. J. A. WINEBRENNEE, Tipton, Mo.

Faulkner's Spotted Poland.

The Old, Original, Big Boned Spotted Kind, at

Topeka, Hutchinson and Oklahoma City

State Fairs. For the kind of our forefathers, write H. L. FAULKNER, Box K, Jamesport, Mo.

Poland Chinas

225 head in herd. Spring boars and gilts for sale, priced at farmers' prices. Write at once. E. J. MANDERSCHIED, St. John, Kan.

FOSTER'S MASTODON

My spring yearling boar, by Mastodon Price, out of Mastodon Maid, for sale. Also, big type spring boars. No gilts. Prices right.

H. H. FOSTER

King City, Missouri.

GREEN LAWN STOCK FARM.

100 head of March and April pigs, sired by Major E. Hadley, the 1000-pound champion at the American Royal, 1911, and Giant Wonder, the best sow of A Wonder, out of a Giant Wonder sow. Spring boars and gilts priced reasonable for quick sale. Write at once. A. J. EBHART & SONS, Adrian, Mo.

Poland Chinas With Quality For Sale

80 Spring Boars and 80 Spring Gilts, not akin. Sired by Ware's Hadley by Big Hadley and Miami Chief. Prices reasonable and everything guaranteed. Write today. F. L. WARE & SON, Paola, Kan.

MILLER POLAND CHINAS.

Fifty head extra good spring pigs in pairs or trios for sale. Prices very reasonable. A few choice herd boars, sired by King Darkness. Write me at once. F. J. MILLER, St. John, Kansas.

Hildwein's Poland Chinas

combines the blood of Expansion, Long King's Equal, Big Victor, Gold Metal, and other great sires. Sixty spring pigs to choose from. WALTER HILDWEIN, Fairview, Kan.

POLAND BOARS BIG ONES

Twenty-five to select from, old enough for service. Also, fall pigs, either sex; guaranteed immune from cholera. J. L. GRIFFITHS, Riley, Kan.

LARGE POLAND CHINAS

Choice boars, bred sows and gilts for sale. Sired by King Hadley, John Ex. and John Long 2d. Prices right. W. Z. BAKER, Rich Hill, Mo.

STRYKER BROTHER'S POLAND CHINAS.

Choice boars and gilts from our show herd. Can sell all kinds of breeding stock at reasonable prices. Also, Hereford cattle and standard bred horses for sale. STRYKER BROS., Fredonia, Kan.

SPRING AND FALL BOARS.

Twenty-five good ones, sired by "Blue Valley, Jr." and "Hartman's Hadley." Will not hold fall sale. Special prices for twenty days. J. J. HARTMAN, Elmo, Kan.

RYDAL POLAND CHINAS.

Headed by Rydal Chief by Choice Goods. Sows of best strains. SPRING pigs for sale. E. S. FARLEE, Rydal (Republic Co.), Kan.

KOLTERMAN'S SPOTTED POLANDS

Headed by Onaga King, mated with big kind of sows. Twenty years of continuous breeding. This is the farmer's hog. Fifty spring pigs to select from. CHAS. W. KOLTERMAN, Onaga, Kansas.

SATISFACTION OR MONEY BACK.

For sale, 12 young boars, will make herd headers; 30 choice gilts; 100 spring pigs. Prices reasonable. W. A. BAKER & SON, Butler, Mo.

25 BIG POLAND CHINA BOARS.

Priced to sell quick. Sired by Blue Valley Goldust, and out of 700-pound sows. Have decided not to hold sale, and offer these privately. Big, smooth fellows. Some real herd headers. Inspection invited. R. J. PECKHAM, Pawnee City, Neb.

THE LARGE, SMOOTH POLANDS.

Fifty head of fall boars and gilts that have size and quality; also, a few bred gilts. L. E. KLEIN, Zeandale, Kan.

Jeff Constant & Son's Durocs. Jeff Constant & Son, of Denver, Mo., owners of the Worth County herd of Duroc Jerseys, report spring pigs doing fine. Their offering at their annual fall sale will be one of the good ones of the season. The spring pigs were extra good to start with, and have made a splendid growth. This herd is made up of representatives of the best blood lines of the breed, and their offering will interest breeders wanting strictly high class stock. Watch for their sale announcement in Kansas Farmer.

Buskirk Durocs. With this issue C. L. Buskirk of Hutchinson, Kan., is advertising 40 Duroc Jerseys, 20 choice spring boars, and 20 choice spring gilts. All are from the best blood lines and good individuals. Mr. Buskirk is changing his location and will close the entire lot out at very low prices. All are sired by Chief Tattarrax and College Col. and are from herd sows that are among the best breeding as large roomy sows. Please read ad in this issue and write your wants at once. Kindly mention Kansas Farmer when you write.

The Lee Percherons. From their 500-acre farm on the rich Dragon creek bottoms, the Lee Brothers of Harveyville, Kan., selected 19 of their 110 head of pure-bred Percherons with which to make the circuit of the big western fairs. The results of their showing at Topeka and Hutchinson are already familiar to our readers, but the real importance of these results lies in the fact that it is of this class of horses that their big sale of December 17 at Manhattan, Kan., will be made. Scorpion 27123-43667 has a great string of colts to his credit, and mares will be bred to him for the sale. He was champion of France and of many of the big shows of this country, and looks and acts like a 5-year-old, though he has passed his fourteenth birthday. The Lee horses practically made the show at both Topeka and Hutchinson, and their two and four-horse hitchers were especially effective.

Hazlett Wins Championship Again. The pure-bred Hereford steer calf exhibited by Robert H. Hazlett, of Hazard Place, El Dorado, Kan., which won the grand championship over all breeds at the Iowa State Fair, was also declared grand champion steer over all breeds at the Nebraska State Fair, and was given second prize in the South Omaha Stock Yards special in the same show. Mr. Hazlett's calf herd of Herefords received third prize in the South Omaha Stock Yards Specials, as well as the prizes shown elsewhere in this issue.

W. E. Marrs' Durocs. Attention is called to the card of W. E. Marrs of Albany, Mo., in this issue of Kansas Farmer. Mr. Marrs established his Duroc herd eight years ago. The foundation stock came from the Bowman and Fitch herds, and Mr. Marrs has always bought the best breeding stock regardless of price and he has one of the good Duroc herds in Missouri. On October 19 he will sell 35 head that can be classed with the good Duroc offerings of the season. The spring and fall gilts are an extra lot and were sired by W. J. Col. 2d by W. J. Col. dam Lady Model. Others in the offering were sired by Kruger Lad and some by W. J. C.'s Prince of Col. The tried sows are good ones. They have the size and quality and are proven producers. This will be a high-class offering and will interest breeders. Write for catalog. They are now ready. Please mention Kansas Farmer when writing.

Profitable Hogs. Healthy, thrifty hogs are profitable. Disease and swine plague and cholera cut down the profits and often destroy the hogs entirely. For promoting health and thrift in the herd and also as a most efficient relief when cholera and swine plague overtake you, there is no remedy that comes with a stronger recommendation than the Snoddy Remedy. It has stood the test for 15 years by hog raisers all over the United States, and is now on sale in every state as a standard remedy. The Dr. H. H. Snoddy Remedy Company, Wichita, Kan., has on file in its offices large numbers of letters from well-known hog breeders and feeders, who state in these letters that they have cured their diseased herds with Snoddy Remedy and restored the herds to health and thrift in a short time with very little loss. They want to send to every hog raiser a free copy of the seventh edition of Snoddy's Treatise on the cure and Treatment of Diseased Hogs. When writing, mention Kansas Farmer.

Hamaker Offers Boars. G. S. Hamaker of Pawnee City, Neb., for years one of the most successful breeders of strictly big-type Poland, starts a card in this issue of Kansas Farmer. Mr. Hamaker has hardly enough stock to justify the holding of a public sale, and takes this means of letting the farmers and breeders know what he has for sale. The 25 big strong March and April boars offered are strictly tops, very large, heavy boned, and descendants of the biggest stock of the breed. They were sired by Smooth Big Bone 2d by Smooth Big Bone, a very noted sire owned by Peter Mouw of Iowa. The dams of the young boars include big sows from the Mouw herd and carry the blood of Price Wonder, Longfellow and other noted big boars. Among the dams of the boars offered are a number of sows sired by Mr. Hamaker's famous herd Long King's Equal, King, a litter brother to Long King's Equal, and running through their pedigrees are strains of Expansion and many other noted boars. The writer considers this a mighty good place to buy a boar. Write Mr. Hamaker, mentioning Kansas Farmer.

"A Plain Talk." We are in receipt of a booklet entitled "A Plain Talk," and it hits right out from the shoulder against some of the abuses people of the north have suffered in dealing with crooked land men who would take a homeseeker in tow and sell him a piece of land by fair means or foul, any way to get the money, and let the buyer beware. This booklet was written and sent out by a land firm, too. They want it understood that they are not doing a skin game business. They are selling land, but they sell it to the men of judgment and business sense, after they have had every courtesy shown them and have had the opportunity to go and come as they please and see any other piece of land they choose and talk to anyone they meet. Howell Brothers are two Texas boys who are selling Big 4 Colony, of which Big Wells is the largest town. They live on the land and are spending \$100,000 to improve it. Read their advertisement on the land page, and send for descriptive literature if you are interested in money making land. They have already sold \$600,000 worth of land to Kansas people, so anyone moving down there will have Kansas neighbors. When writing, mention Kansas Farmer. See the advertisement.

POLAND CHINAS

POLAND CHINAS

BIG POLAND CHINA SPRING BOAR FOR SALE PRIVATELY

I have decided not to hold a public sale, and offer at private treaty 25 top spring boars at prices to move them quickly. Sired by Smooth Big Bone 2d, bred by Mouw, out of Mouw bred dams and daughters and granddaughters of Long King, Expansion, etc. Also, spring gilts. Same breeding. Every representation guaranteed. G. S. HAMAKER, Pawnee City, Neb.

C. E. CONOVER'S BIG BONED POLANDS

Sale October 17. Four fall boars, one fall gilt, 16 spring boars, 20 spring gilts sired by Long King's Hadley, by M.'s Hadley. Send for catalog. C. E. CONOVER, Stanberry, Mo.

CLOVER DALE STOCK FARM POLANDS

Priced for quick sale, my medium type yearling show herd, winning third at Des Moines this year. Also, aged sows, fall gilts and some fine spring gilts by The Baron, he by a full brother to The Harvester and Darkness Perf. by Perf. I Know. M. H. COREY, Lockridge, Ia.

Dean's Mastodon Poland. The big-boned type, will weigh when mature 800 to 1,000 pounds. Bred sows all sold. ALL IMMUNIZED BY DOUBLE TREATMENT AND ARE IMMUNE. Phone, Dearborn; station, New Market, and Postoffice, Weston, Mo. Address CLARENCE DEAN, WESTON, MO.

PLAIN VIEW STOCK FARM. The home of the 1,000-pound grand champion Pawnee Chief Hadley and Big Bill Taft. We are offering 80 big-type spring boars and gilts sired by the above-named and other large-type sires, also two herd boars and 25 fall gilts either bred or open. We believe in size, quality and prolificacy, and we have a line of hogs now on which we can guarantee these essential features, and on this basis we solicit your trade. DR. JOHN GILDOW & SONS, Jamesport, Missouri.

WALLACE'S MAMMOTH POLAND CHINAS

A splendid offering of big type young boars for sale, from the strongest collection of big type brood sows, and by the GRAND CHAMPION BOAR, EXPANSION WONDER, and GRAND LEADER. Size with quality is my policy. W. B. WALLACE, Bunceton, Mo.

WRAY & SON'S BIG TYPE POLAND CHINAS

Herd headed by Sterling Prince, one of the largest and best 2-year-old boars of the breed. Assisted by Chief Price's Wonder, one of the best sons of the great breeding boar, Chief Price Again. Young stock for sale. Better than your grandpa ever raised. B. T. WRAY & SONS, Hopkins, Mo.

BEERY'S JUMBO PROSPECT OFFERING

A few fall boars, spring boars and gilts sired by Jumbo Prospect 53806. Also summer pigs, both sexes, sired by Jumbo Prospect and Long King's Equal Again, to go at weaning time. Satisfaction guaranteed. Prices right. ERNEST W. BEERY, Shambaugh, Iowa.

C. S. NEVIUS' HERDS

Shorthorns and large-type Poland. The home of the great bull, Searchlight, and herd boars, Designer and Major Look. See my show herd at Topeka, Hutchinson, Oklahoma City, and American Royal. C. S. NEVIUS, Chilce, Kan.

30-BIG POLAND CHINA PIGS-30

Tops of my spring crop, sired by First Quality and out of Expansion sows. Satisfactory prices. JAMES ARKELL, Junction City, Kan.

BIG, SMOOTH POLANDS.

FOR SALE—Choice fall boars. Gilts bred for October farrow, and spring pigs, both sexes. Pairs not related. FRANCIS PROCKISH, Westmoreland, Kan.

BIG, SMOOTH POLANDS.

Headed by Model Look and Young Billy. Sows of biggest strains; 30 choice pigs ready to ship; pairs not related. BROWN HEDGE, Whiting, Kan.

COLOSSUS PAN POLAND CHINAS.

Forty choice spring boars and gilts sired by this great boar. Big and smooth. Public sale November 2. HUBERT J. GRIFFITHS, Clay Center, Kan.

TO EXCHANGE OR SELL.

Equity in 80 acres, Saline County, Kansas. Want city property or other land. Encumbrance \$3,500 at 6 per cent, 4 years to run. ED. A. DAVIS, Minneapolis, Kansas.

DUROC JERSEYS

DUROC JERSEYS

W. E. MARR'S DUROC SALE OCTOBER 19

Sale October 19. Thirty-five head high class Durocs. Eleven fall gilts, three tried sows, one fall boar, five spring boars, 15 spring gilts. They are bred right and are right in every way. Send for catalog. W. E. MARRS, Albany, Mo.

40 CHOICE DUROC PIGS

Sired by G. M.'s Col. and Carl Critic. Sows of Tattarrax, Orion and Crimson Wonder breeding. Sale October 29. W. W. BALES, Manhattan, Kan.

GOLDEN RULE DUROC JERSEYS

Choice bred sows and gilts for sale. Herd boars Dreamland Col. and L. C.'s Defender. Also spring pigs by the boars mentioned. LEON CARTER, Asherville, Kansas.

DUROC JERSEY BOARS.

20 TOP BOARS, by Golden Model 2d, and other great boars, the type that will make money on any farm, and will improve any herd. They will suit you. GRANDVIEW STOCK FARM, Americus, Kan.

VILANDER'S DUROC JERSEYS.

130 spring pigs, sired by Tattarrax Chief, White House King, Carl Critic, etc. Out of mature dams. Pairs and trios not related. Ready to ship now. ALVIN VILANDER, Manhattan, Kan.

CHOICE DUROC JERSEY BOARS.

Last fall farrow, sired by Good E Nuff Model by the Duroc wonder, Good E Nuff Again, and out of sows by Crimson Jack by Crimson Wonder. E. H. GIFFORD, Lewiston, Neb.

40 DUROC JERSEYS FOR SALE

Twenty choice spring boars, 20 extra good spring gilts, sired by Chief Tattarrax and College Col. Priced to sell. Write at once your wants. I mean business. C. L. BUSKIRK, Route 3, Hutchinson, Kan.

CROW'S DUROCS

20 Choice spring boars from my show herd. 40 Spring gilts. Prices reasonable. Write at once. W. R. CROW, Hutchinson, Kansas.

PERFECTION STOCK FARM DUROC JERSEY HOGS.

For Sale—20 Spring Duroc Jersey gilts and spring boars, pairs and trios, not related. We sell at farmers' prices. CALSSEN BROS., Union, Okla.

HIGGINS' BIG DUROCS.

We have spring boars by "Crimson Wonder Again," "King the Col," Golden Model Again, and many other sires of merit. Out of dams by Valley King, and others. Priced to sell, and guaranteed to please. Write or call. JOHN T. HIGGINS, Abilene, Kan.



### ROBISON'S PERCHERONS

Stud headed by the champion, Casino 27830 (45462.) Stallions and Mares, all ages, for sale.

Importation of 40 head landed at the farm September 23; 30 head more to land here October 20. All are for sale. J. C. Robison, Towanda, Ks.

## HAVE YOU A GOOD SHROPSHIRE RAM?

If Not You Cannot Afford to be Without One

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

HENLEY RANCH, 8000 Acres, Greencastle, Mo.

## GARNOT PERCHERONS

Carnot colts won over everything at the great Iowa State Fair, in both male and female classes, and in heavy competition. Carnot is now proved to be one of the greatest breeding stallions of the breed, and his colts are sought everywhere. A number are still for sale, out of the best mares. Prices right. Address: W. S. CORSA, White Hall, Illinois.

## UNITY HERD CHESTER WHITE HOGS

J. N. George, Proprietor, Hopkins, Mo. Herd headed by Harvey's Best 1040, by White Oak, out of Alvey Sweet Woodland Boy, Look-on-King, Iowa Mikado and Unity Dick sows in herd. Fall boars for sale. Will weigh 250 to 300 pounds, 8-inch bone. Also, out standing fall gilts. Prices right to sell quick. Write me or visit herd at Hopkins, Mo.

## HILLWOOD HAMPSHIRE HERD, SMITHVILLE, MO.

A prize winning herd, headed by Pirate 5417, by Meadow Lark and out of Spring Water Lilly 6th. Many sows in herd by Gold Medal and Earlinger. Can furnish junior yearling and spring boar, fall yearling and spring gilts. Pairs or trios, no kin. Sows sold, bred or open, to suit purchaser. Stock priced well worth the money, and satisfaction guaranteed. If you want prize winners that will make good, call or write me. J. Q. EDWARDS, Smithville, Mo.

## EAST VIEW SHROPSHIRE

Twenty-five registered yearling rams sired by an imported ram costing \$200 in England. Also 25 pure-bred rams, good growthy fellows of the right type. All rams priced to sell quick. Satisfaction guaranteed. Call on or address: E. L. BITTERMAN, Mason City, Iowa.

### FOR SALE—REGISTERED PERCHERONS.

The kind that goes out and makes good. I breed and grow suckling colts, at 6 months old, that weigh 900 pounds; 2 years old will weigh 1,800 pounds. I will sell you a stallion 4 years old, as good as grows anywhere, at \$500 to \$800. Twenty years an Iowa breeder. All stock registered in P. S. A.

WILL F. HOOKER, Hamilton, Missouri.  
Fifty miles east of St. Joseph, on main line C. B. & Q.

**KENT'S IOWA HERD** 100 boars for sale, 50 fall and yearlings, most of them sired by that famous old boar, Combination 12313. Fifty spring boars sired by other State Fair prize winners. Also choice sows bred for fall farrow. I can sell you anything you want in Chester Whites from a fancy herd header down. If you want to buy one of the big kind, write me for prices and the way I will ship these hogs before paying for them. Mention Kansas Farmer. Address: THOMAS F. KENT, R. 2, Walnut, Iowa.

## DUAL PURPOSE SHORTHORN CATTLE

Evergreen Home Farms, Lathrop, Mo., J. H. Walker, Prop.—Breeder of dual purpose Shorthorn cattle, Oxford Down sheep, Berkshire hogs and Burbon Red turkeys. Breeding stock for sale at all times. Prompt attention to mail orders. Write us for milk and butter records of our Shorthorn herd. J. H. WALKER, Lathrop, Mo.

## CEDARSIDE STOCK FARM, WAVERLY, IOWA

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

**Gebhart & Son's Fine Offering.**  
The sale advertisement of E. F. Gebhart & Son of Kidder, Mo., appears in this issue of Kansas Farmer. This firm is well known throughout the corn belt as breeders of Poland China hogs with size and quality, and their herd is just that kind. This will be their fourth annual sale, and their offering this year will be a very select lot of big, high-quality spring boars and gilts, fall gilts, and a number of tried sows that are proved producers of the right type. They have selected for this sale 16 spring boars, the out and out good ones of their big herd. Breeders will find some outstanding prospects for herd headers in this lot. They have size and quality and are right in every way. They will have 20 carefully selected spring gilts and, like the boars, they have that size and quality that make them very desirable. The tried sows were sired by Keep On Prince, Taxpayer and Onward. They are a fine bunch of big, high quality sows, are proven producers, and all will be safe in pig to Gebhart & Son's great herd boar, Missouri Wonder. The fall gilts were sired by Missouri Wonder and Capt. Hadley. The spring boars and gilts were sired by Missouri Wonder and Hobson's Metal. The boars in service in this herd are Missouri

Wonder by Blain's Wonder, dam Mollie Mow 2d, and Hobson's Metal by Missouri Metal by Bell Metal. Missouri Wonder is one of the great big boars now in service. He has not only the size, but the quality, and breeds just that way, and his sons head some of the best herds in the country. Hobson's Metal is a young boar of great promise. He is also one of the big ones, and as a breeder he is proving to be one of the good ones. Breeders should not overlook this offering. It will be one of the best of the season. Gebhart & Son will be pleased to have breeders inspect their offering. Write them at once for catalog. Please mention Kansas Farmer when writing.

### Valley View Duroc Offering.

The sale advertisement of E. C. Jonagan of Albany, Mo., owner of Valley View herd of Duroc Jerseys, appears in this issue of Kansas Farmer. The offering will be one of the great Duroc offerings of the season, and will include eight tried sows by such boars as R. E.'s Col., Crimson Wonder Again, Orient Chief, Red Chief, and other great Duroc sires, and out of such dams as King's Climax, H. A.'s Queen, Golden Lady, Ideal Rose and other noted Duroc sows; yearling sows by I Am Bell's Chief; fall

boars by Missouri Chief; spring boars and gilts by Crimson Chief Again and Missouri Chief. The tried sows to go in this sale are among the best of Valley View herd, and are a lot that will be a credit to the best Duroc herds of the country. The fall gilts, fall and spring boars, are an outstanding lot that will interest Duroc breeders wanting big, high quality Durocs. The spring gilts are the tops of the herd, and are remarkable for their size and extra quality. They have been carefully selected and are typical brood sow prospects. A feature of the offering is two spring boars and two gilts, the tops of Mr. Jonagan's show herd and prize winners in a strong show. They were sired by Missouri Chief and out of Elder's Beauty by G. C.'s Col. out of Model Beauty. They are all round good ones. Look them up in the catalog. A large per cent of the offering was sired by Mr. Jonagan's herd boar, Missouri Chief, by I Am Bell's Chief, out of Constant Special Duroc Improver. He is not only a big, mellow, easy feeding boar, with lots of quality, but he is a breeder of his kind. The offering is out of dams of the best blood lines of the Duroc breed. It will be a breeders' offering. Send for catalog and look up the liberal terms of this sale. Read Mr. Jonagan's guarantee. Please mention Kansas Farmer when writing.

### The Story of a Good Plow.

In the history of plow making there is no name that stands forth more strongly and more definitely for high quality and leadership in modern improvements than that of Kingman. The Kingman plow had its start nearly half a century ago in one little shop and forge where skilled workmen wrought out an extra good plow designed especially to meet the local soil conditions of Illinois, and made only on special order. Today Kingman plows are made by the tens of thousands for every soil, in one of the biggest agricultural implement factories in the world. The Kingman line now includes every kind of plow: Walking, riding, gang, listing, etc. To plows have been added cultivators of every kind—disc, shovel, surface, etc., stalk cutters, disc and tooth harrows, listers and planters—in fact, everything needed for tilling the soil. Every Kingman implement is like the original Kingman plow, built of extra high quality steel. The Kingman Plow Company issues a large and handsome catalog describing all their implements, and it will pay you to send for a copy, which will be mailed you free for the asking.

### Klein Sells October 24.

L. E. Klein, one of the breeders who has been making public sales and selling to large numbers of satisfied customers for the past few years, will make another of his good sales at the farm 10 miles east of Manhattan and 3 miles south of Zeandale on Thursday, October 24. Mr. Klein has decided not to hold a bred sow sale, and is cataloging for this sale a large number of fall yearling gilts and five of his best tried sows. About five or so of the fall gilts and a number of the tried sows will have fine litters at foot sired by Mr. Klein's great young boar, Chief Prince, a boar with the blood of the most famous big hogs of the breed. Others of the tried sows and fall gilts are also bred to this boar. The fall boars are big, strong, rugged fellows, just right for hard service, sired by the great old breeding boar, Toulon Prince, a grandson of Expansion. The spring boars are the best the writer has ever seen in Mr. Klein's herd. They have plenty of size and are smoother than usual. Mr. Klein has one of the good sow herds of the country and the dams of this offering are great big sows that have been selected with care and at big cost from some of the best herds in two or three states. Among them are daughters of Mogul's Monarch, Capt. Hutch, Toulon Prince, Philanthropist, and other well known breeding boars. Mr. Klein will present this lot of breeding hogs as he always does, in nice breeding form, and his guarantee will be back of every animal sold. Breeders attending sale will find free entertainment at the hotel in St. George on the Union Pacific, and trains will be met here and at Zeandale on the Rock Island. Catalog will be sent upon request, and bids may be sent to Jesse Johnson by parties unable to attend. Send all such bids in Mr. Klein's care at Zeandale, Kan.

### Sam Smith's Jersey Cattle.

S. S. Smith, the enthusiastic Jersey cattle breeder located at Clay Center, Kan., comes back to our advertising columns again this week. A recent visit to this good herd, located about three miles north of town, reveals the fact that here is without doubt one of the great herds of the west. The herd is handled in the most intelligent manner possible, fed upon the feeds that grow upon the farm, and given lots of room and kept in open sheds. Mr. Smith, in his quiet way, has been getting this herd together. Being a student of pedigrees and a good judge by nature, his selections have been of the best. His present herd bull, Blue Boy Baron 99918, has about as rich a pedigree as can be written. His dam, Baronetti of Alfalfa Farm has a record of but-pounds of milk and over 18 pounds of butter in seven days. Her dam and granddam had records as good or better. In fact, the dams of this bull for many generations have wonderful records. His sire, Blue Bell's Blue Boy, is a half brother to the noted Noble of Oaklands, the most famous sire on the island. His dam, Blue Bell D. of Blitmore, had a record of 40 pounds of milk daily with second calf. She was a granddaughter of the noted imported Flying Fox. All of the dams for generations on this side of Mr. Smith's bull have excellent records and trace to the most noted ancestors. A large number of the cows in the herd came from some of the best herds in the east, with others from Kinloch Farm, Kirksville, Mo. A large number are sired by and others bred to the noted bull, Forfarshire's Masterpiece. The whole herd is strong in Golden Lad and other popular strains. Write Mr. Smith, or better still, visit him and the herd at Clay Center, Kansas.

### Shorthorn Sale at Ottawa, Kan., Nov. 13.

On November 13, Mr. C. S. Nevius, of Chiles, Kan., and Mr. H. H. Holmes, of Great Bend, Barton County, Kan., will sell a lot of breeding cattle at Ottawa, Kan. Mr. Holmes has one of the best herds in the west, and his consignment to this sale includes some of the very best from his herd. Every one will be guaranteed a regular breeder, with good pedigree. This promises to be one of the best offerings of Shorthorn cattle to be sold this fall. Mr. Nevius will consign a number of his good cows and a few of his show herd. Mr. Nevius won at the Kansas State Fair at Hutchinson more premiums than any other exhibitor. In the open classes he won on Searchlight, senior champion and grand champion prizes. He won first on 2-year-old bull, second on junior yearling bull, first on senior bull calf, first on junior bull calf, second on cow, third on 2-year-old heifer, first and junior champion on a yearling heifer, second on aged herd, second on get of sire and first on produce of cow. In the prizes awarded to Kansas exhibitors, Mr. Nevius ranked far in the lead as to number of prizes won. His winnings on Shorthorns at the fair this season were

## DUROC JERSEYS

### QUIVERA PLACE.

Headquarters for the best in Durocs. Herd headed by Quivera by Tatarax assisted by M. & M.'s Col. Choice spring boars for sale. Bred sow sale January 8. Munsell & Isenberg, Herington, Kan.

### FALL DUROC JERSEY BOARS.

GOOD ONES: Sired by Carter's Golden Rule, grandson of Pearl's Golden Rule and out of sows sired by G. C.'s Kansas Col. Also, 50 pigs, weanlings. J. W. WOHLFORD, Waterville, Kan.

### MARSH CREEK DUROCS.

Choice spring boars of leading strains. Low prices for the next thirty days. R. F. WELLS, Formoso, Kan.

### FALL DUROC BOARS.

Choice ones to select from. Fed and handled properly for good results. Choice breeding. Only the best saved for breeding. Reasonable prices. HOWELL BROS., Herkimer, Kan.

### GEORGE KERR'S DUROCS

lead in rich breeding and individuality. 120 choice spring pigs ready to ship. Plenty of herd boar material. GEORGE KERR, Sabetha, Kan.

## TOO LATE TO CLASSIFY

### PEARL SHORTHORN HERD.

One of the oldest and strongest herds in the west. Scotch and Scotch-topped. Reds and roans. Good individuals and tracing to noted ancestors. Choice young bulls, and heifers and cows, both bred and open, for sale. Can ship over Rock Island, Santa Fe or Missouri Pacific. Inspection invited. C. W. TAYLOR, Abilene, Kan.

### COPELAND'S BIG POLAND BOARS.

For private sale, instead of public sale, I offer seven choice fall boars sired by Copeland's Hadley and "Designer." 12 spring boars, selected, six of them by "Expansion's Son," and out of a 700-pound Hadley bred sow. These boars are good individuals, and will be priced to sell quick. N. E. COPELAND, Waterville, Kan.

REGISTERED cows, heifers and bull calves sired by Imp. Stockwell's Black Prince, Golden Crown's Fox, Golden Peter, Fox of Baltimore, Ada's Beau, Goldcutt Marigold and Forfarshire's Masterpiece. One extra good yearling bull. S. S. SMITH, Clay Center, Kan.

### WINELAND FARM JERSEYS.

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

### FULTON'S SPRING BOARS.

Few strictly top spring boars, sired by Chief Hutch by Fulton's Chief, out of big Iowa sows of Mastodon breeding. Satisfaction guaranteed. W. F. FULTON, Waterville, Kan.

perhaps more than were ever won by any breeder of Shorthorns at any Kansas state fair in one show. All lovers of Shorthorn cattle should take notice of the sale to be held by Mr. Nevius and Mr. Holmes, as this will be the best opportunity to buy good breeding cattle this fall. Watch for further mention of this sale in Kansas Farmer, and send your name for a catalog.

### Copeland Offers Boars.

N. E. Copeland, of Waterville, Kan., for years one of the good Poland China breeders of Kansas, starts his card in this issue of Kansas Farmer in which he offers for immediate sale 7 fall and 12 spring boars. These boars represent just the tops of the last fall and spring crops of pigs. Mr. Copeland had intended to hold a public sale, but on account of the tight corn crop in his immediate locality he thought it best to keep his gilts and breed them and offer the boars privately so that there might at least a part of them go to localities where the corn was better and the demand correspondingly greater. The fall boars are big husky fellows sired by Mr. Copeland's Hadley boar and Designer, the Nevius boar. The spring boars are big and strong and the six by Expansion's Son and out of the big fine Hadley bred sow are especially choice. There should be an extra good demand for these boars, and they should all be sold within a short time. Write while they last, and buy the best. Mention this when writing.

### Charles Morrison Writes.

We are having fine weather now after the freeze last week. Most of the Kafir corn got frosted and very little will make good seed here. There is going to be a ground burn next spring to get it off the seed. The country is full of feed and short on all kinds of live stock. We think the frost has put a damper on the horse disease, as we hear of no new cases. Our herd of Red Polls is in fine condition. We are answering a good many inquiries about bulls, and we have a few fine yearlings and some under a year that are ready to ship; also some good young cows that will be fresh this fall and winter. We have a few choice heifers coming three that are in calf to our young bull, Crema 22d. These heifers are from large cows that are good milkers. They are in fine condition and will make good milkers with plenty of size and finish. Parties will do well to visit this herd if they wish to invest in Red Polls. The herd numbers 73 head.—CHARLES MORRISON, Phillipsburg, Kan.

Hearings on the investigation into the so-called lumber trust methods are progressing slowly in Seattle, Washington. The meat of the evidence obtained so far would indicate that there has been an "understanding" among wholesalers and manufacturers that they were not to sell mail order houses and to consumers. The fact was brought out that there are certain manufacturers who do sell direct to consumers and to mail order houses and that such manufacturers have been embarrassed as much as possible by those who frown upon doing business directly with the consumer. The evidence shows plainly that, whether there is a so-called lumber trust or not, every effort is made to prevent the distribution of lumber direct to the consumer at a saving to him of \$100 to \$300 per car.

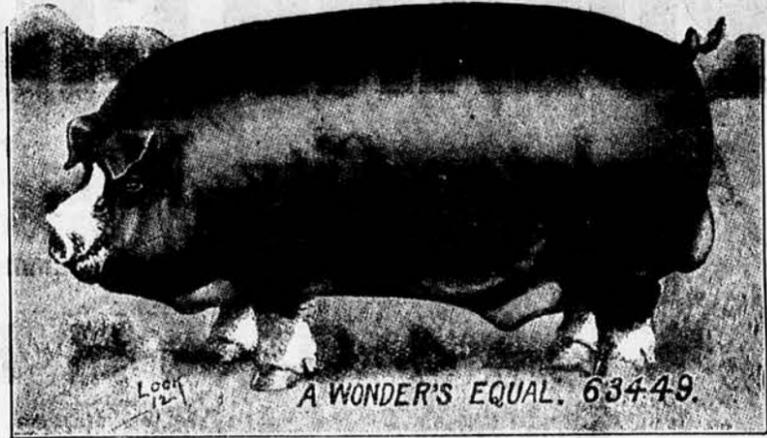
## GRANER'S Big Kind Polands at Auction, Lancaster, Kan, Tuesday, Oct. 15, '12

40 head selected with the buyers interest in view  
EIGHTEEN SUMMER AND FALL BOARS—FOUR SPRING BOARS—FOUR  
TRIED SOWS—EIGHT YEARLING SOWS—TEN FALL GILTS—  
TWO SPRING GILTS.

ONE OF THE MOST USEFUL OFFERINGS OF THE SEASON. The boars are just right for hard and immediate service, and the females can be bred for early litters and will give much better results than spring gilts. The offering contains one outstanding boar sired by "Long King's Best," and one son of the noted boar, A Wonder. Fall gilts are by "Guy's Monarch" and Kansas Victor, the best son of the noted "Big Victor." The yearling and tried sows are of the big, useful sort, and contain daughters of "Gold Metal," "Captain Hutch," "Expansive," "Colossus," "Guy's Monarch," etc. They will be offered in prime breeding form and carrying but little surplus fat. Write for catalog, and make your plans to attend this sale and H. B. Walters the day following. Hotel accommodations, and trains met free to parties attending.

**H. C. GRANER, LANCASTER, KANSAS**

AUCTIONEERS—H. S. DUNCAN, JOHN DAUM. Jesse Johnson will attend this sale. Send him bids, in my care.



(Included in the Sale.)

## Last chance to buy herd boars by Expansive, Effingham, Kan, Wed., Oct. 16, '12



### Forty--Choice Individuals to Choose From--Forty

Including 5 SONS OF EXPANSIVE—good enough to head any herd in America. SIX FALL BOARS—ONE SPRING YEARLING BOAR—EIGHTEEN SPRING BOARS—ONE YEARLING GILT—FIFTEEN SPRING GILTS.

The sons of Expansive are all yearlings, and out of my best sows. The yearling gilt is by EXPANSIVE, and out of a dam by GOLD METAL. The remainder of the offering was sired by LONG KING'S BEST, by Long King, and SAMPSON CHIEF. I am adhering strictly to my policy of putting in only such individuals as I feel sure should be preserved for breeding purposes. Write for catalog, mentioning this paper. Usual entertainment and conveyance to and from the farm. H. C. Craner sells day before. Better attend both sales. Everybody invited and made welcome.

**H. B. WALTER, EFFINGHAM, KAN.**

AUCTIONEERS—COL. H. S. DUNCAN, COL. JOHN R. TRIGGS. Sealed bids may be sent to Jesse Johnson, in my care, at Effingham.

## LONG'S KING MASTADON POLAND CHINA SALE

AT FARM NEAR MERIDEN, KANSAS, FRIDAY, OCTOBER 18th, 1912

**50 Head the Best From Every Standpoint That I Have Ever Offered 50**

TWELVE FALL, TWELVE SPRING AND ONE SENIOR YEARLING BOARS, TEN SPRING AND TEN FALL YEARLING GILTS, FIVE TRIED SOWS. THE SPRING AND FALL STUFF IS PRACTICALLY ALL BY KING MASTADON 2ND, WITH A FEW BY LONG'S WONDER, BY A WONDER.

DAMS OF OFFERING are big, mature sows, by such sires as BIG BONE MOUW, BIG CHIEF, JUMBO EXPANSION. The fall boars are exceptionally big and strong, and still not very coarse, and the offering, as a whole, must surely suit those breeders and farmers that consider size when buying breeding stock. I am putting in a number of my very best sows, a number of them with litters at foot. They have done me lots of good and are still young sows. They go in as attractions, and I trust will be appreciated. Parties attending sale will find free entertainment at the hotel in Meriden, and will be provided with transportation to and from the farm. Catalogs, giving complete breeding and description of the different animals, has been issued Free for the asking. Mention this paper when writing.

AUCTIONEERS—COL. SPARKS, COL. TRIPP, COL. TRIGG. Bids may be sent to Jesse Johnson, in my care, at Meriden.

**W. E. LONG, Meriden, Kansas**

## NOLL'S A WONDER, LONG KING AND MASTADON BREEDING AT AUCTION

AT FARM NEAR WINCHESTER, KANSAS, TUESDAY, OCT. 22, '12

NINE FALL YEARLING BOARS, TWENTY-TWO SPRING BOARS, TWENTY SELECTED SPRING GILTS, TWO TRIED SOWS, WITH LITTERS AT FOOT, BY PFANDER'S KING.

PFANDER'S KING 60262 sired practically all of the spring stuff included. He is a great sire, and said by good judges to be the best son of Long King now in service in the west. The dams of the offering are sows of great individuality, and include daughters of A WONDER, COLUMBIA CHIEF, and other boars of note. All of these sows are splendid individuals and all of them have been sale toppers. The offering will, I am sure, please those that are searching for more size. The breeding is of the best big type strains, carefully mated. Everyone invited. Sale under cover, sure. Catalogs sent upon application.

**JOHN W. NOLL, Winchester, (Jefferson Co.,) Kan.**

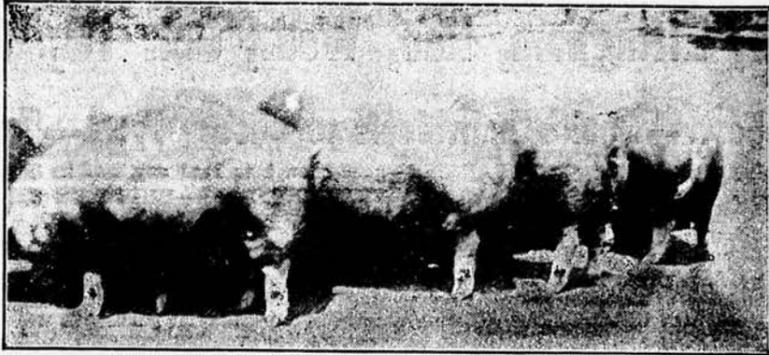
AUCTIONEER—F. Z. ZAUN. KANSAS FARMER REPRESENTED BY JESSE JOHNSON. BIDS MAY BE SENT TO HIM, IN MY CARE.

# POLAND CHINA HOG SALE

Appleton City, Mo., Thursday, Oct. 17, 1912

40 — HEAD — 40

BOARS, SOWS AND GILTS, SELECTED FROM THE GOLD MEDAL HERD — 14 EXTRA GOOD FALL YEARLING GILTS, LARGE AND SMOOTH.



A BUNCH OF FALL YEARLING GILTS IN THE SALE.

TERMS CASH.

AUCTIONEERS—COL. C. F. BEARD, COL. JAS. W. SPARKS, COL. DEE DONOHUE, COL. HARRY RAYBOURN, COL. R. H. CALVERT.

**HERD BOARS:** HIGHBALL LOOK 58123  
HADLEY B 57830  
BIG SAM, JR., 62972

THREE OF THE MOST PROLIFIC BOARS OF THE BREED.

I am making this, my first public sale offering, after some years of close application spent in building up a herd of the finest of the big bone type of Poland Chinas. Have spared neither time nor expense in my effort to reach perfection in the breed, and I feel that I have been highly successful. There is not a hog on my farm that is not pure bred and a credit to his type, and the hogs in this offering will, I believe, firmly establish the reputation of the Gold Medal Stock Farm.

All hogs offered are in good breeding and healthy condition, and are the hogs for the farmer because they grow large in a very short time.

Come, rain or shine, for the sale will be in the dry, and be our guest, whether you buy or not. Free entertainment to all parties attending the sale.

**J. H. BAKER, BUTLER, MISSOURI**

Don't wait for catalog, but come to the sale, or send bids to O. W. Devine, representing KANSAS FARMER, in my care, at Appleton City, Mo.

## B. F. GEBHART & SON'S FOURTH ANNUAL SALE

OF

### BIG HIGH QUALITY POLAND CHINAS

AT KIDDER, MO.

MONDAY, OCTOBER 28, 1912

Sixteen spring boars, big, mellow, growthy fellows that are right for quality. Breeders will find herd header prospects in this lot. Twenty select spring gilts, the big kind with quality. These gilts have been carefully selected and every one is a good prospect for a typical brood sow. All of our spring boars and gilts were sired by Missouri Wonder by Blain's Wonder and Hobson's Metal by Missouri Metal by Bell Metal. Three tried sows bred to Missouri Wonder, one sired by Keep On Prince, one by Taxpayer, and the other by Onward. All are proven producers. Will also offer three fall sows by Missouri Wonder and one by Capt. Hadley. Our offering this year is the tops of our entire herd, and we believe it will be the best in the history of our herd and one that will appeal to breeders wanting Polands with size and quality. All bids sent to auctioneers or fieldmen in our care will receive careful attention. Drop us a card and let us send you a catalog at once.

**B. F. GEBHART & SON, Kidder, Mo.**

Auctioneers—COL. THOS. E. DEEM, COL. F. E. WILLIAMS.  
Fieldman—W. J. CODY.

JEFF CONSTANT  
& SON'S

## DUROC SALE

AT FARM NEAR DENVER, MISSOURI

Friday, Oct. 25th 1912

45—HEAD OF HIGH-CLASS DUROCS—45

Four extra good fall yearling boars that are right in every way; 15 February and March boars, the extra good ones of our large herd; 26 outstanding good spring gilts and sows. About one-half of our offering was sired by our great herd boar, I Am Bell's Chief, a son of Ohio Chief Again and grand champion at the Interstate Show at St. Joseph. The others by our fine young boar W. J. C.'s Prince of Cols., one of the best sons of Prince of Cols. It will be a strictly high-class offering that will interest breeders. Write for catalog. Free conveyance from Albany, Mo., to sale. Bids sent to fieldmen or auctioneer in my care will receive careful attention.

**JEFF CONSTANT & SON, Denver, Mo.**

COL. P. B. WILKERSON, Auctioneer. W. J. CODY, Fieldman.

## E. C. JONAGAN'S GREAT DUROC OFFERING

AT ALBANY, MISSOURI

Saturday, Oct. 26th 1912

40 HEAD BIG HIGH CLASS DUROCS 40

Including eight high-class tried sows, as good as there is in our herd; six bred to our great herd boar, Missouri Chief, by I Am Bell's Chief; two fall gilts, extra good ones; five big, mellow, high-class fall yearling boars; seven extra good spring boars. The balance of the offering big high quality spring gilts, tried sows by F's Col., Crimson Wonder Again, Orient Chief, Red Chief, and other great Duroc sires. Spring boars and gilts by Missouri Chief, Crimson Chief Again. Our prize winning spring boars and gilts will be in the sale. The offering has been carefully selected. It is the tops of our herd and is in good breeding condition. All stock guaranteed as breeders, and guarantee covers sixty days. Let me send you a catalog containing my liberal terms of sale. It will interest Duroc breeders. Bids sent to auctioneers or fieldmen in my care will be treated fairly. Write me for catalog at once.

**E. C. JONAGAN, Albany, Mo.**

Auctioneers—Col. N. G. Krashel, Col. Wilkerson, Col. Gibson.  
Fieldman—W. J. Cody.

## Giant Poland China Hogs

—AT PUBLIC AUCTION, IN—

PATTONSBURG, MO., TUESDAY, OCT. 22, 1912

Fifty head, consisting of fall yearlings, tried sows, one extra good herd boar, and spring pigs. Pigs sired by Mo. Prospect, dams by Major Blain, Big Hadley, Big Chief, Prince Hadley, Choice Quality, by W. R.'s Quality. Catalogs now ready.

**JACOB SPARKS, Pattonsburg, Mo.**

AUCTIONEER—JAMES W. SPARKS.

# ROY JOHNSTON'S POLAND CHINA SALE

At South Mound, Kansas, Monday, Oct., 21, 1912

35 SPRING GILTS -- 20 SPRING BOARS. 14 Sired by Dan Hadley--6 Sired by B. Wonder  
16 Sired by Chief Look -- 2 by Orphan Chief -- 11 by Standard Ok -- 5 Sired by Choice Goods

I am selling some of the best spring gilts I ever sold. They are large and growthy, will make large brood sows. The Dan Hadley gilts out of Orphan Chief sows are extra good and will please anyone. The 20 boars are the pick from 80 head of spring boars, and there are several herd header prospects. They have both size and quality. My catalog is ready to mail out. Don't wait to receive it, but write at once for it and arrange to come to my sale. If you cannot come, bids may be sent to O. W. Devine representing Kansas Farmer, or auctioneers.

COL. F. G. ZAUN and COL. C. F. BAIRD, Auctioneers.  
Remember the date is Monday, October 21.

Roy Johnston, South Mound, Kansas

# DURBIN'S OLD TRUSTY POLANDS

—THE GREATEST OFFERING OF THE SEASON, AT FARM, NEAR—

King City, Mo., Wed., Oct. 23rd, 1912

Fifty head, the tops of Old Trusty herd. Three big, high quality fall boars, 5 fall gilts that are right in breeding size and quality, 22 big, growthy spring boars, a number of herd headers, 20 spring gilts that are remarkable for their size and quality. The greater part of this offering sired by the great boar, Blue Valley E., by Expansive; others by Col. Hadley, by Big Hadley's Likeness, two of the good Poland China sires now in service. The offering is out of Kansas Wonder, Major Blain, Big Hadley, Chief Thompson, Jumbo, Jr., and 1,000-pound Jumbo sows. Bids sent fieldmen or auctioneers, in my care, will be treated fairly. Catalog now ready.

AUCTIONEER—JAMES W. SPARKS. FIELDMAN—W. J. CODY.

T. E. DURBIN, :: :: King City, Mo.

## OLD FASHIONED SPOTTED POLANDS

SALE AT LAWSON, MO.

Saturday, Oct. 19th, 1912

ANDREWS STOCK FARM

will offer 45 head of the big boned, smooth kind, with big litters. Twenty-two spring boars, the tops of 41 head of good ones; 23 spring gilts, the tops of 47 head of the best gilts ever raised on the farm. A greater part of the offering sired by Spotted King, by Budweiser Boy, by Budweiser, one of the big spotted boars with quality and second to none as a breeder. Others sired by Budweiser and Brandywine, Jr. The dams of the offering are Made to Order, Billy Sunday, Brandywine and Big Bill Taft sows, every one with records as breeders. This will be the great offering of the season, and an opportunity to buy the old fashioned, big boned spotted kind that never fail to make good. If unable to attend, send bids to auctioneers or fieldmen, in care of Andrew's Stock Farm. All bids will be treated fairly. Write at once for catalog, now ready.

ANDREWS STOCK FARM, Lawson, Mo.

AUCTIONEERS—COLS. ZACK WELLS, Kansas City, Mo.; CHARLES THOMPSON, Kearney, Mo.; C. M. NELSON, Princeton, Mo.; JAMES R. McIVER, Excelsior Springs, Mo.  
FIELDMAN—W. J. CODY.

## FIRST ANNUAL SALE—80 HOLSTEINS

STERLING, ILLINOIS, OCTOBER 24, 1912

70 COWS AND HEIFERS—10 BULLS.  
All registered, tuberculin tested, representing some of the greatest families of the breed. Most of the cows have A. R. O. records from 20 to 24 pounds. Many of the heifers are from A. R. O. dams. All the females of a breeding age bred to our great herd bulls.

SIR NETHERLAND CORNUCOPIA, whose two nearest dams average 30 pounds butter, and who has 12 A. R. O. daughters, all as 2-year-olds, and a son at 2 years of age, who was Grand Champion Bull at the Illinois State Fair of 1911. All from his first crop of calves.

PRINCE HENGERVELD SEGIS, whose two nearest dams average over 31 pounds of butter, and 17 nearest dams over 25 pounds of butter. His first crop of calves are extremely promising.

KING CORNUCOPIA HENGERVELD SEGIS, whose four nearest dams have records from 30 to 34 pounds, whose six nearest dams average almost 29 pounds butter, and whose 17 nearest dams average over 26 pounds.

Several very choicely bred young bulls. They are herd headers.  
Send for Catalog. WOODLAWN FARM, STERLING, ILL.

## GOLDSTREAM FARM FOURTH ANNUAL JERSEY SALE

AUBURN, NEB., OCTOBER 28, 1912.

O. P. DOVEL, Prop.

CONSISTS OF 50 HEAD OF HIGH CLASS IMPORTED AND HOME-BRED JERSEYS  
Header by the sensational young imported bull, Euterpean, P. S. 4782, H. C. son of Noble Jolly Sulton, P. S. 4158, H. C. Dam, Eupidee's Dolly, P. S. 10145, C., granddaughter of Golden Fern's Lad, P. S. 2160, H. C.

Sale includes a magnificent line of great dairy cows and heifers, practically all of them bred to the above bull.

If you want to see the best lot of Jerseys ever gathered together in one sale, arrange to attend this sale. Also some very choice young bulls. Catalog on request only to

B. C. SETTLES, Sales Manager, Palmyra, Missouri.

## DISPERSION SALE RED POLLED CATTLE AND O. I. C. SWINE

At Farm 7 Miles East of  
Delphos, Kansas

Friday, October 25, 1912

Ten head of Red Polled cattle, consisting of the herd bull, Bowman 31576, weighing a ton when fat, and four other bulls of serviceable age. The females, bred or with calf at foot, by Bowman. Foundation stock from the best Nebraska and Iowa herds.

Sixty head of registered O. I. C. swine, three herd boars, 20 spring boars, 13 tried sows. Remainder fall and spring pigs. The very best strains represented. Free transportation to and from sale. Lunch at noon. Write for catalogue. Send bids to auctioneers or fieldman.

MILTON PENNOCK

DELPHOS, :: :: KANSAS

AUCTIONEERS—COLS. F. J. ZAUN and W. G. ALTERTON.  
FIELDMAN—JESSE R. JOHNSON.

T. W. STRICKLER'S

## BIG POLAND OFFERING

AT TARKIO, MO.

Saturday, Oct. 19

Fifty head of strictly big type Polands, 25 spring boars, including herd header and 25 outstanding good spring gilts—the type that make good brood sows. A part of this offering was sired by King's Equal, one of the greatest sons of Long King's Equal; others by Big A, one of the good sons of A Wonder, also one litter by the great Pawnee Nelson, out of a dam weighing over 700 pounds. Bids sent to auctioneer or fieldmen, in my care, will be fairly treated. Catalogs now ready.

T. W. STRICKLER, Craig, Mo.

AUCTIONEER—COL. MANIFOLD. FIELDMAN—W. J. CODY.

# KLEIN'S ANNUAL FALL SALE OF BIG POLANDS

## 45 HEAD THURSDAY, OCTOBER 24th 1912 45 HEAD

At Farm 10 Miles East of Manhattan, 3 Miles South of Zeandale, Kansas

5 FALL BOARS—15 SPRING BOARS—10 FALL GILTS—9 SPRING GILTS—5 TRIED SOWS.  
The tried sows and fall gilts will, some of them, have litters at foot; other breds and open.. The fall boars and gilts were all sired by the Expansion boar, TOULON PRINCE. The spring boars and gilts were sired by TOULON PRINCE and BIG MONARCH.

### TRIED SOWS INCLUDE

CHIEF PRICE. All the litters at foot and those to farrow will be by the same boar. The offering is a good, useful one, and will be sold upon its merits. Farmers and breeders invited, as guests or buyers. Write for catalog, mentioning KANSAS FARMER. Free entertainment at St. George. Trains met there and at Zeandale.

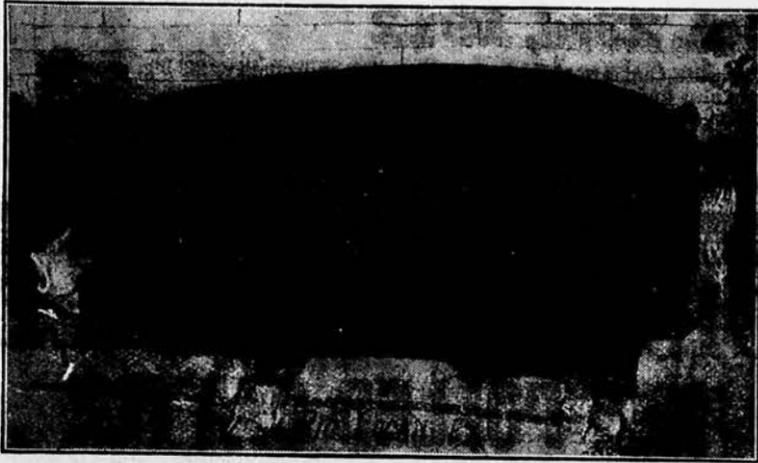
AUCTIONEER—L. R. BRADY. FIELDMAN—JESSE JOHNSON.

some of my very best sows, among them LADY WEBB, by Major Bob, SUNSHINE WONDER, by Philanthropist, MASSIVE IDEAL, by King Massive. The last named has a fine litter at foot by my young herd boar, the same boar. The offering is a good, useful one, and will be sold upon its merits. Farmers and breeders invited, as guests or buyers. Write for catalog, mentioning KANSAS FARMER. Free entertainment at St. George.

L. E. KLEIN, ZEANDALE, KANSAS

# L. V. OKEEFE'S GREAT POLAND CHINA SALE

## At Stilwell, Kan., Thur. Oct. 24, '12



55 head, carefully selected from my herd of large Poland Chinas; 17 fall yearling gilts, all large and well grown out; 18 spring gilts, most all by big Logan Ex.; 12 spring boars, and 8 fall boars, sired by big Logan Ex., Grand Look, J. R.'s Model, John Hadley and Wedd's Long King. My fall gilts and spring gilts are all good. They will make large, roomy sows. Please send for my catalog, and come to my sale. If you cannot attend, send a bid to O. W. Devine, representing KANSAS FARMER, or auctioneers, in my care. I guarantee a good offering, and you make the price. Come and spend a day with me, whether you buy or not. Your presence will be appreciated. Remember, the date is THURSDAY, OCTOBER 24, and sale is at farm, near Stilwell, Kan. Catalogs are ready to mail out. I would be pleased to mail you one.

### L. V. Okeefe, Stilwell, Kan.

AUCTIONEERS—COL. R. L. HARRIMAN, COL. ANDY JAMES.

## FIELD NOTES

### FIELD MEN.

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

### FURN BRED STOCK SALES.

- Dec. 17—Lee Bros., Harveyville, Kan. Sale to be held at Manhattan.
- Dec. 19—J. C. Robinson, Towanda, Kan.
- March 4—L. M. Monsees & Son, thirty-fourth annual sale, Smithton, Mo.
- Feb. 4-5—Henry C. Gilsman, Station B, Omaha, Neb.
- Shorthorn Cattle.
- Nov. 15—Nevius, Holmes & Berkey Bros. Sale at Ottawa, Kan.
- Nov. 21—J. F. Stodder, Burden, Cowley Co., Kan.
- Red Poll Cattle.
- Oct. 25—Milton Pennock, Delphos, Kan.
- Poland Chinas.
- Oct. 17—Conover, Stanberry, Mo.
- Oct. 17—M. T. Williams, Valley Falls, Kan.
- Oct. 18—Dr. J. T. Hanna, Bolckow, Mo.
- Oct. 18—W. E. Long, Meriden, Kan.
- Oct. 19—Andrews' Stock Farm, Big Spotted Poland, Lawson, Mo.
- Oct. 19—T. W. Strickler, Craig Mo. Sale at Tarkio, Mo.
- Oct. 21—Roy Johnston, South Mound, Kan.
- Oct. 22—Jacob Sparks, Pattonsburg, Mo.
- Oct. 23—T. E. Durbin, King City, Mo.
- Oct. 24—L. E. Klein, Zeandale, Kan.
- Oct. 24—L. V. Okeefe, Stilwell, Kan.
- Oct. 26—W. F. Rieschick, Fall City, Neb.
- Oct. 28—B. F. Gebhart & Son, Kidder, Mo.
- Oct. 31—J. H. Harter, Westmoreland Kan.
- Nov. 1—Thomas Patrick, Herman, Neb.
- Nov. 1—Walter Hildwein, Fairview, Kan.
- Nov. 2—Black & Thompson, Hopkins, Mo.
- Nov. 2—Hubert J. Griffiths, Clay Center, Kan.
- Nov. 7—J. A. Winebrenner, Tipton, Mo.
- Nov. 8—Wayne Hudson, Hemple, Mo.
- Nov. 9—A. C. Lobough, Washington, Kan.
- Nov. 9—Lomax & Starratt, Severance, Kan.
- Nov. 13—Herman Groninger & Sons, Bendena, Kan.
- Nov. 14—Harry Wales, Peculiar, Mo.
- Nov. 15—O. R. Strauss, Milford, Kan.
- Nov. 15—William Watt & Son, Green City, Mo.
- Nov. 16—J. B. Dillingham, Platte City, Mo.
- Dec. 11—H. C. Graner, Lancaster, Kan.
- Jan. 16—H. B. Walter, Effingham, Kan.
- Jan. 24—Jas. G. Long, Harlan, Iowa.
- Jan. 30—C. W. Jones, Solomon, Kan.
- Jan. 2—Thompson Bros., Marysville, Kan.
- Feb. 3—Williams Bros., Villisca, Ia.
- Feb. 5—J. L. Griffiths, Riley, Kan.
- Feb. 5—H. Fesenmeyer, Clairinda, Iowa.
- Feb. 6—J. B. Lawson, Clairinda, Iowa.
- Feb. 7—J. O. James, Braddyville, Iowa.
- Feb. 8—W. H. Chartars, Jr., Butler, Mo.
- Feb. 12—H. L. Faulkner, Spotted Poland, Jamesport, Mo.
- Feb. 12—Ira C. Kyle & Son, Mankato, Kan.
- Feb. 13—Carl Jensen & Son, Belleville, Kan.
- Feb. 20—R. J. Peckham, Pawnee, Neb.

- Feb. 26—F. J. Sexsmith, Orient, Iowa.
- Feb. 26—Thompson Bros., Marysville, Kan.
- Feb. 22—C. L. Branich, Hiawatha, Kan. Sale in town.
- Feb. 26—J. W. Pfander & Sons, Clarinda, Iowa.
- Feb. 26—L. C. McClarmon, Braddyville, Ia. (Night sale.)
- Duroc Jerseys.
- Oct. 25—Jeff Constant & Sons, Denver, Mo.
- Oct. 26—E. C. Jonagan, Albany, Mo.
- Oct. 30—Thompson Bros., Garrison, Kan.
- Nov. 2—J. H. Mellenbruch, Morrill, Kan.: sale at Hiawatha, Kan.
- Nov. 12—Lant Bros., Dennis, Kan.
- Jan. 8—Munsell & Isenberg, Herington, Kan.
- Jan. 11—Fred W. Lahr, Brooks, Iowa. Sale at Corning, Iowa.
- Jan. 17—E. H. Gifford, Lewiston, Neb.
- Jan. 30—J. W. Wohlford, Waterville, Kan.
- Feb. 4—Alvin Vilander, Manhattan, Kan.
- Feb. 6—Thompson Bros., Garrison, Kan.
- O. I. C.
- Oct. 25—Milton Pennock, Delphos, Kan.

Get a Catalog. The nicely illustrated catalog of Roy Johnston's Poland China sale, October 21, at South Mound, Kan., is out, and it tells the story of the Johnston Poland Chinas. Don't fail to get one. It is worth your time to read. Write today and mention sale ad in Kansas Farmer.

Wayne Hudson's Sale November 8. Wayne Hudson of Hemple, Mo., has changed the date of his sale of big-type Poland from October 17 to November 8. Breeders should note this change, as Mr. Hudson will offer a high class lot of big-type Poland on November 8. They are the smooth kind and are right in every way.

L. V. Okeefe's Poland China Sale. On October 24 L. V. Okeefe of Stilwell, Kan., will sell 55 head of selected Poland. Mr. Okeefe is one of our careful breeders and has made a record of growing large, useful hogs, with size and quality combined. Big Logan Ex. has proven a great sire and his get has given entire satisfaction. Please read the sale ad in this issue and send for a catalog. Any breeder or farmer wanting good hogs can not afford to miss this sale. The date is Thursday, October 24.

Harter Offers Herd Boars. J. H. Harter of Westmoreland, Kan., one of the best known Poland China breeders of this state, changes his advertisement this week and offers for sale either three of his herd boars, Mogul's Monarch, Prince Hadley, Gephart, and a great son of Long King. Mr. Harter will sell any three of these boars because he has no use for so many. At least three of them have reputations that extend beyond the limits of the state. They have made good and will be a good right.

Thompson Bros.' Winnings. Thompson Bros., Duroc breeders of Clarinda, Kansas, deserve congratulations upon their splendid success in the show ring this year, considering the fact that this was their first effort along that line. From Topeka they went to Hutchinson, winning as follows in strong competition with some of the best herds: Senior champion sow, reserve champion sow, junior champion sow, second on produce of sow, first on aged herd, junior yearling boar, aged sow and senior pig. Altogether, seven firsts. A part of this prize winning stock will be included in their October 30 sale.

J. O. James' Big Orange Sale. The Poland China sale of J. O. James, held at Braddyville, Iowa, October 2, was only fairly well attended by breeders. It was a great Big Orange offering, but on account of unfavorable conditions the average was not what it should have been when the quality and breeding of the offering is considered. The top of the sale, a Big Orange spring boar, went to G. F. Walker & Sons, Alexander, Neb., at \$200. Mr. James will have one of the great offerings of the season for his bred sow sale to be held at Braddyville, February 7, 1913.

Last Call for H. B. Walter's Sale. The breeders of Kansas and adjoining states will neglect their own best interests if they fail to attend the H. B. Walter sale at Effingham, Kan., Wednesday, October 16. This will be the last chance to buy at public auction sons of Expansion, one of the most noted boars that ever lived. The sale is full of attractions, including spring boars and gilts by "Long King's Best," the great son of old Long King. Mr. Walter's reputation as a breeder and a man should be a sufficient guarantee of the quality of this offering. To attend is to be pleased and to buy is to get into the breeding business in earnest, or to add to your already good herd, animals of merit from the standpoint of the best big type breeders.

Gifford's Great Boar. One of the truly great young Duroc Jersey boars of the breed now in service is "Good Enuff Model," heading the herd of Mr. E. H. Gifford, of Lewiston, Neb. It will be remembered that this boar was first as a senior yearling in the very strongest kind of competition at Lincoln this year. His sire, "Good Enuff," was sired by "Good Enuff," champion boar of Iowa, and a son of the noted boar, "Golden Rule," making all three champion boars of Iowa. The dam of "Good Enuff Model" was a noted sow tracing to "Kantbeet." Few living boars have more prize winning ancestors than has Mr. Gifford's boar. Mr. Gifford offers choice spring and fall boars sired by him and out of exceedingly richly bred dams.

Jersey Bulls From Great Dams. This week we start advertising for Mr. H. C. Young, of Lincoln, Neb. Mr. Young offers for sale 10 choice young bulls in age from 3 to 10 months. These bulls were sired by "Imp Duke's Raleigh," grandson of the noted "Noble of Oaklands," "Guenon's Gay Lad," and "Gertie's Son's Jamont," three great sires. The young bulls are out of cows either with official butter records or now undergoing official tests. Write for further description. More later about this great herd.

Last Call for W. A. Burk's Sale. Breeders of big-type Poland Chinas should not overlook the offering of W. A. Burk at Trenton, Mo., October 15. Fall yearling boars and sows sired by King's Giant, one of the best sons of Long King and out of Mammoth Giantess 3d, will be found in this offering. Spring boars and gilts sired by King's Giant and Black Jumbo, a great son of Long King's Equal, will also be in the offering. A yearling boar by Long King's Equal and one by Big Sensation will go in the sale. The entire offering is in just the condition to make good as breeders. If unable to attend the sale, mail bids to fieldmen or auctioneer in care of Mr. Burk. They will receive careful attention.

Last Call for White Cloud Farm Sale. This will be the last call for Dr. J. A. Larrabee's White Cloud Farm Duroc sale at Barnard, Mo., October 15. Breeders should not overlook this great Duroc offering. It will be one of the best of the season. Tried sows by Buddy K. 4th, inventor, Hillen's Chief, Proud Chief, Uneda Chief; fall gilts and boars by the great White Cloud Chief; spring gilts and boars by Beauty's Model Top, Col. Bob, and Valley Chief Again. This is an offering that will interest breeders.

Graner's October 15 Sale. The best big type Poland China breeders of Kansas and adjoining states can spend a day very profitably at the H. C. Graner farm, Lancaster, Kan., on Tuesday, October 15. For on the above date Mr. Graner will offer at public auction one of the greatest lot of Poland Chinas that will go through any sale ring this fall. No other sale that the writer knows of will contain such a large per cent of tried sows and fall gilts. There will not be more than a half dozen spring pigs in the sale, and when the reader reflects that the winter sales will contain no better sows, and that they will sell for twice the money, it would seem like good business judgment to take an interest in this sale. Included in the sale are sons of the noted A Wonder and other great boars. Better attend this sale.

O. L. Thisler Tries Bacilli-Kill. As a preventive of the terrible horse plague, Bacilli-Kill has been a great success on our ranch. When Mr. A. O. Fox and his veterinarian, Mr. Walcott, arrived on my place we had two horses taken violently with the plague. One had a temperature of over 105, and the other 103%. As I felt sure the horses would die, I gave them permission to test their remedy, and in less than five hours the temperature of one was reduced to normal, while the other was reduced from 103% to 102 in the same time. To make a short story, one horse was saved and is at work today. The other died next day, but its temperature was reduced to normal. It was too far gone. We use Bacilli-Kill in every water tank on the ranch, in the pasture, and in every lot where horses and mules are watered. I have great faith in this remedy and never had horses do better.—O. L. THISLER, Chapman, Kan.

Stryker Brothers' Show Herd. The Stryker Brothers, of Fredonia, Kan., have out this year a strong show herd of Poland Chinas. They were in the money in every class they showed in at Hutchinson, last week. On boar, 12 months and under 18, first; boar, 18 months and under 2 years, first; boar, 6 months and under 1 year, first; boar, under 6 months, first; sows, 6 months and under 1 year, first; on herds, four sows, any age, second; on get of sire, second; on herd, one boar and three sows, second; young herd, second. In the futurity classes, the Stryker Brothers carried away their share of the prize money, winning from this class \$108. The Stryker Brothers have one of the good herds of Kansas, and they have a large mail order trade. They shipped hogs to nine states last year, and have a strong demand now for their prize winners. Please read their card advertisement in this issue, and book your order early, and get the first choice. They have on hand at all times breeding stock—boars, bred sows and bred gilts. Please write them at Fredonia, Kan., and mention Kansas Farmer when you write.

M. H. Corey, Lockridge, Ia., offers for sale his entire show herd of Poland Chinas, which won third prize in the great Iowa State Fair, where there were about 3,000 hogs on exhibition. Also, some aged sows, fall and spring gilts. Priced for quick sale. Write him at once, and mention Kansas Farmer.

Walters' Poland Sale. H. B. Walters' October 16 sale will be full of herd boar material. Among the real attractions will be the great yearling whose cut is shown in the quarter page advertisement on another page. He is a full brother to Mr. Walters' herd boar, Expansive Chief. He is making him a son of Old Expansive. He is a young boar of unusual merit, and his dam is Guy's Best, by Guy's Price 2d, which fact within itself is a sufficient guarantee that he is no ordinary pig.

Galloway Bulls. Capital View herd of Galloways, owned by G. E. Clark, Silver Lake, Kan., numbers among its members some choicely bred young bulls which were sired by imported or home-bred bulls and which are for sale. The Galloways have sprung into popularity because of their early maturity and quick fleshing qualities. Any breed of beef cattle will make money in the near future, and the Galloways can be depended upon to do their full share. These bulls are sure dehorners, and they put beef onto their calves. Get a Galloway, and get to going right.

Last Call for Andrews Sale. This will be the last call for the Andrews Stock Farm sale of old-fashioned big-boned Spotted Poland at Lawson, Mo., October 19. The Andrews Stock Farm has had several sensational offerings of big spotted Polands, but has never had a better lot than this year. They will offer 45 head of spring boars and gilts—the tops of 88 head of the best ever raised on that farm. A greater part of them were sired by Spotted Kings, the Andrews herd boar, and one of the best individuals and breeders in service today. They are out of the best dams of their great sow herd. Mr. Andrews has refused to sell a single boar or gilt until after his sale, so you may be sure the best will be in the sale.

Beery's Big Jumbo Prospect Offering. Attention is called to the card of Ernest W. Beery of Shambaugh, Iowa. At this time Mr. Beery is offering a few fall and spring boars that are right in every way. The fall boars were sired by his great herd boar, Jumbo Prospect and Wonderful. He also has summer pigs, both sexes, sired by Jumbo Prospect. As a big-type individual and breeder, Jumbo Prospect is pronounced by many competent critics to be the best big-type Poland China boar now in service, and Mr. Beery has of late refused many tempting offers from leading big-type breeders for him. Poland China breeders wanting either boars or gilts that are right in every way should investigate this offering. They are priced to sell quick. Mr. Beery is always pleased to have Poland China breeders inspect his herd. Visit or write him at Shambaugh, Iowa. Please mention Kansas Farmer when writing.

Great Boar Changes Hands. Thompson Bros., Poland China breeders of Marysville, Kan., after spending considerable time and money hunting for a boar that would measure up to their standard of excellence, have bought at a very long price from W. C. Milligan of Clay Center, the outstanding young boar, Giant Monarch, a son of Guy's Monarch by Big Victor. His dam was by Bell Metal and one of the largest and best sows ever owned in Kansas. Big Monarch weighs, at 22 months, about 800 pounds. His legs are strong as mile posts. He is without doubt one of the mellowest big-type boars ever bred in this state. His pigs show up well, and the writer readily predicts that he will demonstrate his right to be known as second to none among the boars of the breed. Thompson Bros. are to be congratulated upon the purchase of this boar, and sows bred to him in their winter sales will surely be appreciated by the breeders who are always seeking the best.

Curry Held His First Sale. At his farm near Winchester, Kan., Mr. John T. Curry held his first public sale Friday, September 27. Mr. Curry offered and sold one of the best bunches of big type Poland Chinas that will be seen this season. They were in ideal condition and had size and quality. The arrangements, such as seating, etc., were the best possible. Every one present was made welcome and comfortable. The prices received were rather disappointing for such an offering, still it was a trifle early in the season for the boar trade. The bulk of the animals sold at prices ranging from \$20 to \$30, with a few as high as \$35, and a few under the twenty mark. Almost everything sold to Mr. Curry's former customers or the good farmers living in his part of the state. Among the principal buyers were Charles Martin, W. H. Stewart, James Fairhurst, J. B. Hunsecker, John W. Noll and W. A. B. Stoffer, all of Winchester; J. H. Harter, Westmoreland, Kan., and J. C. Halderman, Burchard, Neb.

Big Holstein Sale. On October 24, at Sterling, Ill., the Woodlawn Farm will hold a big sale of Holstein cattle, in which 70 cows and heifers and 10 bulls will be offered. These animals are all registered, tuberculin tested and are representatives of some of the greatest families in the breed. Most of the cows to be offered have A. R. O. records, testing from 20 to 24 pounds, and many of the heifers are from A. R. O. dams. All of the females of suitable age are bred to either Sir Netherland Cornucopia 41884 or Prince Henserveld Segis 53269. The first of these bulls is the sire of eight in the record, and the second bull has an equally good pedigree, and is a grandson of King Segis with 31 daughters in the record. This sale will offer a great opportunity for parties desiring to get high-class blood lines from a herd that works every day in the year.

Imported Shropshire Blood. Perhaps there never was a time in Kansas when the opportunity for starting right in the sheep business was so good as it now is. A great abundance of feed and comparatively little other stock which it can be fed, coupled with the fact that the peculiarities of the season have left an abundance of aftermath in the fields, would suggest that a sheep would be a most profitable venture this fall. There is no breed that has been tried in Kansas that has attained to the popularity of the Shropshire, and the investment of a few dollars in pure-bred rams will do a vast deal for the future profits from the flock. E. E. Laughlin of Rich Hill, Mo., has just what you want. Rich Hill is just a few miles east of Pleasanton, Kan., so the shipment would be short. Mr. Laughlin is offering young Shropshire rams that were sired by imported rams, and they are of high quality. Drop him a postal card asking for his ram circular, which will give full information. Kindly mention Kansas Farmer.

Long Falls October 18. W. E. Long will offer at his October 18 sale the best lot of big-type Poland Chinas that he has ever included in one of his sales. A big part of the offering will be sons and daughters of Mr. Long's big boar, King Mastodon 2d, one of the biggest of Kansas sires. His get have great length and depth, and the sows by him are especially attractive and good breeding prospects. Others in the sale of the young stuff were sired by Long's Wonder, by Wonder. Of the 51 head in the sale, five will be tried sows, all of them good ones. They are sows that have made good for Mr. Long, and because he will have no winter sale and is especially anxious to put in good, valuable and useful stuff, these sows go in. The sale will be held on the farm, as usual, and hotel accommodations provided. Write for catalog giving full information, and attend if possible.

Pennock's Dispersion Sale. Milton Pennock at Delphos, Kan., who for over 30 years has bred purebred stock, has at last decided to take a vacation. It is his intention to spend a year or more in South America. This makes it necessary for him to make a dispersion sale of his farm to Red Follad cattle and O. I. C. swine. The sale will be held on the farm seven miles east of Delphos and 12 miles west of Mil-tonvale, Kan., Friday, October 25. While the offering of cattle is not large, it is first class in every way. The herd bull, Bow-class, is one of the splendorous bulls of the breed. He weighs a ton when in condition. He is the sire of all the young stock and the cows are bred to him. The foundation of the cow herd came from the Schwab herd at Clay Center, Neb., and the C. N. Chambers herd at Bartlett, Iowa. Of the 60 hogs to be sold, 22 are boars, fall and spring farrow mostly, and include three choice herd boars. One of them, Bob B., was bred by J. M. Miller, Garnett, Kan., and is a grandson of Don Mikado 16067. One is Royal Shilton, Delphos Chief, with a dam by Kerr Shelton. These, with 13 tried sows, several of them by Delphos Chief with considerable Kerr breeding, and a lot of choice fall and spring gilts. Everything will be in nice breeding form and fully guaranteed. Write at once for catalog, mentioning Kansas Farmer.

The Lesson from the Horse Plague. It is quite generally believed that the palisade worm was the deadly pest that caused the trouble. The eggs of this worm existed in the many stagnant pools left by heavy rains, and in this way were taken into the stomach of the animal. Here they were hatched out and instead of being carried off through the bowels, as they would have been had the animal had free access to some good medicated salt like "Sal Vet," advertised on another page, the worm found lodging in the intestinal wall, and its way through into the blood vessels, to the base of the brain, when it reached the fatal cerebral meningitis. It is said to have conclusively shown that, so far as the animal having access to "Sal Vet" was attacked by the plague. Considering the low cost of keeping this great worm destroyer and conditioner before your stock at all times, and since the manufacturers, The S. R. Fell Co., manufacturing chemists, Cleveland, Ohio, offer to send you a penny supply to feed at their risk without the charge if it does not prove satisfactory to you, it would seem that it is the part of wisdom and good judgment to send at once for a 30 days supply of "Sal Vet." With all stomach and free intestinal worms destroyed, your animals can be kept in a healthy, vigorous condition so they will be better able to resist the horse plague, also hog cholera and all other destructive diseases. The great lesson to be learned from these plagues is the old, old adage that "an ounce of prevention is worth a pound of cure."

Jeff Constant & Son's Duroc Offering. The sale advertisement of Jeff Constant & Son will be found in this issue of Kansas Farmer. This is one of the pioneer herds of Duroc Jersey hogs, and one of the best, and their offering on October 25 will be one of the very high-class Duroc offerings of the season. The offering will include four fall yearling boars, big, smooth, high-class fellows that are right in every way, and 15 February and March boars, the outstanding top of their large number of early spring boars. Every boar in this sale is right only the extra good ones of the herd having been selected for this offering. Twenty-six head of early spring gilts and sows will be offered. This will be one of the extra good lots to be sold this year and in they have the size and quality and are in just the right condition to make good as breeders. The same can be said of the boars to go in this sale. About one-half of this offering was sired by their great herd boar, I Am Bell's Chief, by Ohio Chief Again. He is one of the extra good individuals and of the great Duroc breeders now in service. He will be remembered as the grand champion at the Interstate show at St. Joseph. The rest of the offering was sired by W. J. C.'s Prince of Cols. by Prince of Cols. This is a great boar, and is proving to be a breeder of the best sows of the herd, offering is out of the best sows of the herd, and the Ohio Chief, Elder's Wonder, I Am Bell's Chief sows and others of the herd tracing to Proud Advance, Buddy K 4th and Crimson Wonder Again are a fine lot. Send at once for catalog. They are ready. Please mention Kansas Farmer when writing.

Peckham Offers Boars. R. J. Peckham, one of the best known and successful breeders of big type Poland Chinas, at Pawnee City, Neb., changes his advertisement in this issue. Mr. Peckham has decided to make a winter sale instead of a fall sale, and for this reason offers privately his entire crop of spring boars at private treaty. The writer has just visited the herd and can say that here is one of the evenest and growthiest bunches of big type spring boars that he has seen this fall. They were sired by Mr. Peckham's great young boar, "Blue Valley Goldust," by young boar, "Blue Valley Expansion," and out of a sow "Blue Valley Hadley." There is no better breeding, besides this, Mr. Peckham for long, and has maintained one of the greatest herds to be found in the west, paying long prices and keeping them in the herd until disqualified by age. Among them is the sow, "Tecumseh Goldust" bought for \$250 from John Blain at his dispersion sale, and probably the best sow ever owned by Mr. Blain. She is the dam of the great boar, "Nox All Hadley," now heading the herd of A. R. Enos, of Ramona, Kan. Other sows are daughters of Big Hadley and Look Grand. Others carry the blood of Johnson's Chief, Growthy King, Expansion, etc. They are a select lot of mighty good ones, and the farmer or breeder looking for a boar will do well to investigate Mr. Peckham's prices. Mention Kansas Farmer.

J. Q. Edwards' Hampshire. J. Q. Edwards, of Hillwood Farm, Smithville, Mo., wants among the Hampshire exhibitors at the State Fair at Topeka this year, and carried away his share of the honors, as usual. Hillwood Farm Hamp-

shire herd is one of the leading western herds of that breed, and never fail to win a good share of ribbons when exhibited. The present head of the herd is Pirate 5417, by Meadow Lake, and out of Spring Water Lily 6th. He is one of the good breeders of the breed, and a Hampshire boar of the finest type. A feature of Hillwood herd that breeders should not overlook is the outstanding lot of sows, many of them sired by the great boars, Gold Medal and Earlinger. Attention is called to Mr. Edwards card that commences in this issue of Kansas Farmer. He is offering an extra lot of junior yearling and spring boars, lot of junior yearling and spring gilts. He also fall yearling and spring gilts. He is pricing the stock right, and guarantees satisfaction in every way. He is one of Missouri's reliable breeders, and wants every customer satisfied. Write him your wants in Hampshire. Please mention Kansas Farmer.

Horse Plague Precautions. Dr. Hess & Clark advise Kansas Farmer that they are receiving large numbers of inquiries, both by mail and wire, from our readers, asking how horse disease may be cured or prevented. Dr. Hess, assisted by his veterinary staff, does not name the disease. He says, "Now, whether the disease is due to a parasite or whether it is cerebro spinal meningitis, strict sanitary precautions and disinfecting should be resorted to. As a preventive treatment, we would suggest giving one ounce of turpentine in from a pint to a quart of raw flaxseed oil once a day for two or three days. Repeat this treatment in a week or ten days." He suggested the following precautionary measures: Well horses animals, or placed where diseased animals have been kept. No attendant who has taken care of sick horses should go to the healthy ones. Care should also be taken that harness or any utensils that have been exposed to horses that have been afflicted, or have died of the disease, should not get brought in contact with well horses. All runs and stables should be thoroughly disinfected. Laxative food should be fed, such as oil meal, bran, etc., and laxatives, tonics and diuretics should be given to keep the animal in as good a condition as possible, and have the secretory and excretory organs, that is, the organs such as the liver and kidneys, in a healthy condition to aid digestion and throw off the waste material. When these things are done, the horse stands a better chance of resisting an attack of this serious disease. It is also very necessary that all horses dying of this disease should be burned or deeply buried.

Statement of the Ownership and management of KANSAS FARMER, published weekly at Topeka, Kan. Required by the Act of August 24, 1912: Editor—T. A. Borman, Topeka, Kan. Managing Editor—T. A. Borman, Topeka, Kan. Business Manager—A. T. Reid, Topeka, Kan. (A Corporation.) Names and addresses of stockholders holding 1 per cent or more of total amount of stock: T. A. Borman, Topeka, Kan. A. T. Reid, Topeka, Kan. Marian Reid, Topeka, Kan. M. A. Low, Topeka, Kan. Dean R. Low, Dewey, Okla. S. H. Pitcher, Topeka, Kan. T. M. Darlington, Kansas City, Mo. E. B. Cowgill, Topeka, Kan. John R. Mulvane, Topeka, Kan. I. D. Graham, Topeka, Kan. J. R. Johnson, Clay Center, Kan. Otto Barth, Topeka, Kan. Joab Mulvane, Topeka, Kan. E. W. Barteldes, Lawrence, Kan. E. T. Guymon, Hutchinson, Kan. Wallace C. Richardson, New York City. W. F. Evans, St. Louis, Mo. E. W. Rankin, Topeka, Kan. Geo. A. Clark, Topeka, Kan. O. W. Devine, Topeka, Kan. (Signed) A. T. REID, President and General Manager. Sworn to and subscribed before me, this 30th day of September, 1912. (Seal) S. H. PITCHER, Notary Public. (My commission expires March 17, 1915.)

J. H. Baker & Son's Poland Sale. On October 17, J. H. Baker & Son will hold their first annual sale of Poland China hogs. The sale will be held at Appleton City, Mo., on the main line of the M., K. & T. railway. Mr. Baker and son have done a good job growing out a nice bunch of spring pigs. They are large and smooth and the 14 fall yearling gilts are the best that we know of that will be sold this year. No. 1, No. 3 and No. 10 are outstanding good ones and should go into some good breeder's hands. Among the spring boars we like No. 34 the best, but there are several real good ones that would please most any breeder. They have listed 10 fall boars, 10 spring boars, 15 fall gilts and five spring gilts. They are all well grown, the fall boars are a decidedly good bunch from which to select boars that will make good. Those desiring sows to breed for next spring's farrowing will find that Mr. Baker has listed an exceptionally good lot. Among the fall males and gilts that will be sold are two boars and two gilts by High Ball Look and out of Superior Maid by Smith's Big Hadley; four gilts and a boar by High Ball Look and out of Society Wonder by John Wonder; one gilt and three boars by the same sire and out of Maud You Tell by Prince You Tell, and two gilts by High Ball Look and out of a Big Ex. Chief size High Ball Look was got by Grand Look Jr. and out of the noted sow, High Ball Lady. Thus it may be seen that he is bred right. He is also a superior individual and imparts his size and quality to his offspring. Those who buy his get are well pleased with their purchases. Mr. Baker is a little modest in speaking about his hogs, and breeders and farmers will find them on sale day a little better than they expected. The catalog is now ready to mail out. If you want some good hogs, get ready to attend, as you will not be disappointed in the offering. Remember the date is Thursday, October 17, and the sale will be held at Appleton City, Mo. O. W. Devine will represent Kansas Farmer. Bids may be sent to him at Appleton City, Mo.

Gifford's Durocs Win. Breeders of at least two states that have been in touch with E. H. Gifford, of Lewistown, Neb., and watched and read of the development of the great young boar, Good E Nuff Model, will not be surprised to know that he won first in the senior yearling class at Nebraska State Fair this year in extra strong competition. This boar, already conceded to be one of the best in the whole country, comes from prize winning stock for generations. His sire, Good E Nuff Again, was one of the most noted prize winners of Iowa, and besides was a grand winner of Golden Rule. The dam of Mr. Gifford's boar was the noted prize winning sow, Cedar's Model 2d, a granddaughter of the noted Kar. Be Beat. Mr. Gifford has a choice lot of spring boars sired by Good E Nuff Model. Write him quick, and mention this notice.

Corn Crib. There is pretty sure to be a car shortage this fall and winter on account of the big crops of wheat and corn, and even though there should be plenty of cars, there always is more or less waste of corn in a big corn year on account of lack of enough cribs to house the crop. It is not always convenient to haul the corn off to market as the husking proceeds, so thousands of bushels are piled on the ground after the permanent cribs are filled. It is hardly worth while for anyone to pile corn on the ground, and surely there is no call to build expensive cribs which may next year stand empty and useless. This expense and waste can be avoided by getting a few rods of what is known as slat cribbing, which is lath four feet long, set two inches apart, and woven in galvanized wire. This makes a cheap emergency crib and can later be used for fencing. The Economy Portable Slat Crib is advertised in this paper and is made by the well-known Iowa concern at Council Bluffs, the Walker Manufacturing Company, who have advertised furrow openers, clover bunchers, etc., in this paper for several years. They are making attractive prices to those who inquire. When writing, mention Kansas Farmer. Also get your cribbing early and avoid the rush.

Who Wants Overland Auto Free? A brand new five-passenger 1913 model Overland automobile, with full equipment including all the latest improvements, a beautiful \$400 piano, two Victor Victrolas of up-to-date design, a business college scholarship in one of Topeka's well-known business schools, and two valuable gold watches are the articles which Kansas Farmer will give away as prizes in its subscription contest just recently announced. Two thousand dollars has been spent in



Getting this list of splendid prizes together. These prizes are offered to the worthy and hustling men and women of Kansas, and will make magnificent Christmas gifts to those who are declared winners on December 14. Kansas Farmer has conducted several contests in the past, and the results from all of them have been most gratifying both to those who have participated as contestants and to this magazine. Nothing but fairness and honest methods are allowed to enter in their management, and all of our friends are treated equally. Kansas Farmer urges its subscribers and friends to read the announcement printed on another page in this issue and to take part in the merry race.

The Oklahoma State Fair. The Oklahoma State Fair, held at Oklahoma City last week, was a worthy compliment to the new state. Oklahoma has come to occupy a proud and commanding position among the great states of the American grain belt. It is fitting that its State Fair should be in perfect keeping. Although Oklahoma is a new state, and its fair is younger than the fairs of most of the grain belt states, it has that desired air of permanency and development which, as a rule, comes only with age. Night shows, capital speed events every afternoon, and many minor attractions served to balance an eminent program. Daily flights of aeroplanes were watched with unfeigned interest by the crowds. The show of pedigreed live stock of all kinds, including some of the best herds of draft horses, beef and dairy cattle, saddle and harness horses, sheep and swine, commanded the attention of many interested visitors each day. There was a record breaking display of machinery which furnished ample interest to those who were mechanically inclined. The horticultural and agricultural exhibits, as well as poultry and special displays, surpassed those brought by any former effort. The display of farm products of Noble County was one of the best the writer has ever seen, and is deserving of much praise, as this exhibit attracted unusual attention from every one who had the pleasure of viewing it. We believe it was the nicest of viewing ever shown at any state fair. The Oklahoma State Fair management's only aim is to promote and encourage public welfare, and it is the wish of the men in control of the Oklahoma State Fair to make it purely educational and inspirational. Among the many exhibitors of Duroc Jerseys, J. R. Blackshear of Elmdale was the only Kansas man, and he made good by winning first on junior yearling boar, senior boar pig, junior boar pig, aged sow, junior sow pig, young herd, exhibitor's young herd, get of sire and produce of sow, junior champion boar and reserve champion, senior champion sow, junior champion sow, grand champion boar, besides a number of other prizes. In Jersey cattle the only exhibitor from outside the state was Smith & Roberts of Beatrice, Neb., who continued their unbroken record made in Iowa, Nebraska and Kansas, by winning very largely of every prize shown for. Stryker Bros., Fredonia, Kan., were the only "foreign" exhibitors of Poland Chinas, and they sure got some ribbons. They won first in the boar classes on junior yearling, senior pig, junior pig, and in the sow classes on senior yearling, senior pig, junior pig. They also got first on aged herd, young herd, get of sire, produce of dam, junior champion boar, senior champion sow, reserve grand champion boar and sow. As this is a two weeks fair, the other awards are not yet made at this writing.

A Remarkable Book. The Hoosier Stove Company, of Marion, Ind., issues a catalog that sets a new record in the stove and range industry. It is seldom that a mere catalog raises to the dignity which commands attention from anybody but those who are possible purchasers of the articles advertised in it. But the Hoosier Stove Company, of Marion, Ind., has just published a catalog that is so chock full of interesting matter, from cover to cover, that everybody who sees it finds something worthy of more than passing notice. From very modest beginnings this concern has grown, in a very short time, to colossal proportions, employing an army of skilled artisans and wielding the tremendous power in financial circles. The Hoosier foundries are the largest and best equipped foundries in the United States devoted exclusively to the manufacture of household cooking and heating stoves. Hoosier stoves and ranges are shipped to every corner of the world. The most significant fact in connection with the history of this remarkable business is that Hoosier stoves and ranges are sold direct from the factory to the home without passing through any middlemen. This is said to be the secret of the remarkable economies effected in the stove business by the Hoosier Company. The Hoosier book will be sent free or request to any address in the world.

\$985

*Overland*  
1913

\$985

*Completely Equipped*

## The Fastest Selling Car in America

**B**EFORE we announced this car we had signed contracts for over 39,000. Yet we had planned to limit our 1913 production to 40,000 cars. We are now shipping 150 cars a day. Yet we could ship 500 a day if we could make them. Right now we are over 3,000 cars behind our immediate shipping orders. We have been in this condition for the last 30 days. It is beginning to look as if we never could catch up.

Practically every important 1913 announcement has been made. A careful examination of these announcements will prove precisely what we have been claiming—that there is not a \$1,200 car built that has any more practical value to offer than this one for \$985.

And here are the comparative facts which support this seemingly bold statement.

Automobile values must be looked at from several different angles. You must consider not only the price, but what that price buys you. You must take into consideration the power, the strength, the beauty, the construction, the size, the appearance and the equipment of the car. You must judge a car by the material in it; the workmanship in it; the methods employed to produce to and last but not least, the facilities behind the production methods.

Examine each one of these fundamentals in this Overland at \$985 and you will find a car that is identical with any \$1,200 car in the world. Go further and

you find high-grade construction and painstaking care in finish that equal the production methods employed in the making of any \$5,000 car you know of.

This car has the power of a \$1,200 car; it has the strength of a \$1,200 car; it has the size of a \$1,200 car; it has the seating capacity of a \$1,200 car; it has the wheel base of a \$1,200 car; it has the chassis construction of a \$1,200 car; it has the comfort of a \$1,200 car; it has the beauty and finish of a \$1,200 car.

Take the equipment item alone. It has a Warner speedometer—the best made; it has a fine mohair top and boot; it has a clear vision wind shield; it has a self-starter and Prestolite tank—every practical accessory made for an automobile. And all for the one price—\$985. There are no "extras."

Then there are those important construction features which are only found on the very high-priced cars. This model has a drop-forged I beam section front axle, fitted with the famous Timken bearings; a three-quarter floating rear axle fitted with Hyatt bearings; a selective transmission, with three speeds forward and reverse, fitted with annular bearings, and a cold rolled pressed steel frame. It has the center control. The brakes are unusually large for a car of this size and power, and are ample for cars of much greater weight. There are two powerful sets of the drum type, internal expanding and external contracting. The great braking surface of these is indicated by their dimensions,

13 inches by 2½ inches each. These are the brake dimensions you find on \$1,500 cars. Pick up the catalogue of any \$1,500 car and see for yourself. The springs are semi-elliptic front, three-quarter elliptic rear. Each spring has six leaves. Tires are 32x3½ Q. D.

This model is superbly finished. The striking body is in dark Overland blue. Battleship Gray wheels harmonize perfectly with the rich, dark body which is trimmed in black and nickel plate.

How can we market this car at this price? By making 40,000 cars a year. Increased production brings decreased selling prices. There is the answer in six small words.

If we could bring you fully to realize the size of our huge organization, you would more fully appreciate and understand the value of this car and why we can do what others cannot.

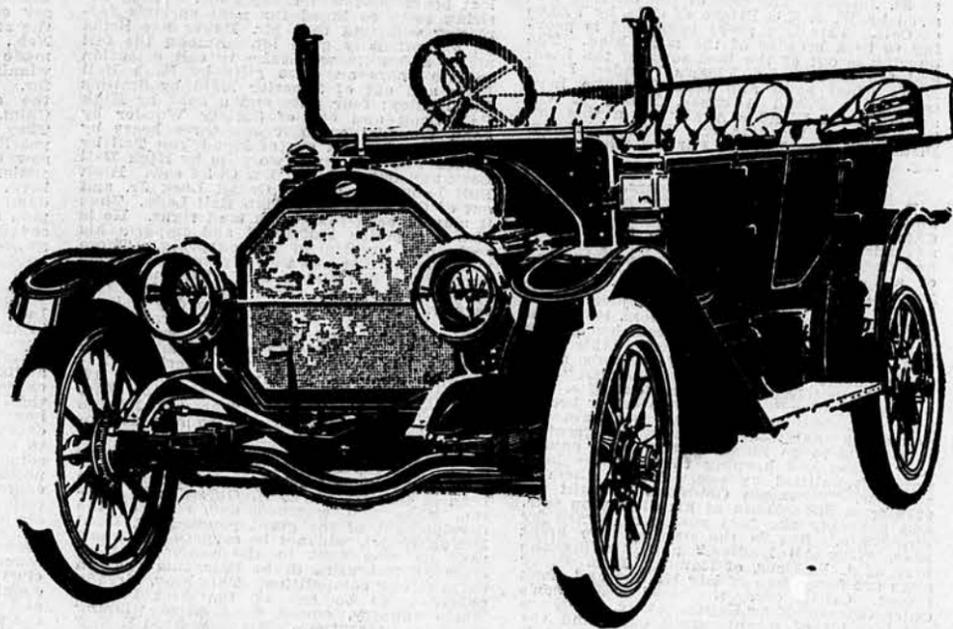
The demand for this car has already swamped the entire visible supply for the 1913 season. It has actually simmered down to a mere allotment proposition. So if you want an Overland "69" get your order in quick.

Any man who pays over \$985 for a completely equipped 30 horsepower, five passenger touring car of this type and size is just wasting money.

See this Model "69" at the Overland salesroom in your city at once. Order early if you want it early. Handsome catalogue on request. Write today, addressing Department 82

The Willys-Overland Company, Toledo, Ohio

Self Starter  
30 Horsepower  
5-Passenger Touring Car  
110-inch Wheel Base  
Timken Bearings  
Center Control



Warner Speedometer  
Remy Magneto  
Prestolite Tank  
Mohair Top and Boot  
Clear Vision Wind  
Shield