

Forty Pages

The

Price Five Cents

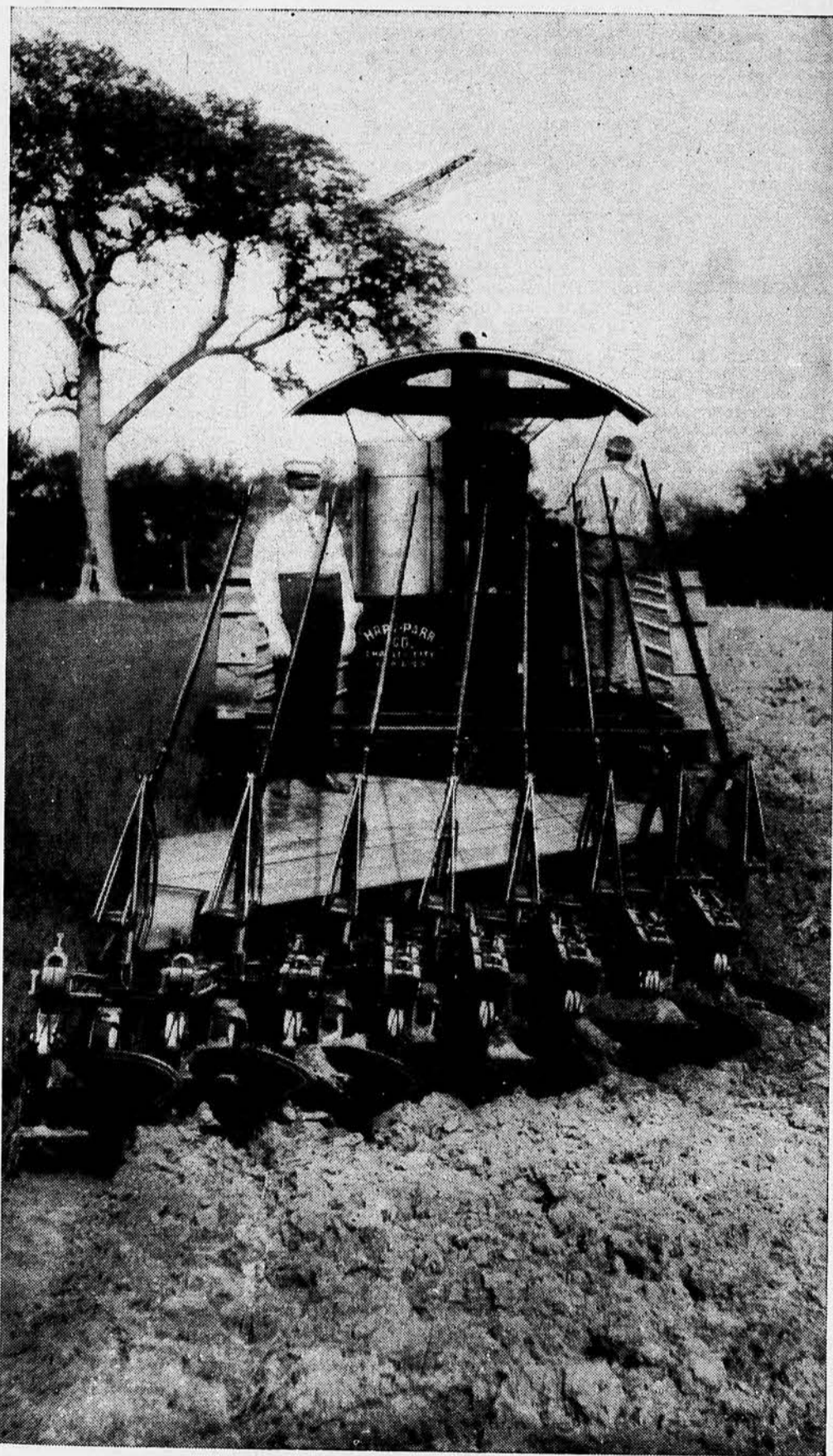
AGRICULTURAL READING ROOM
Comp

FARMERS MAIL AND BREEZE

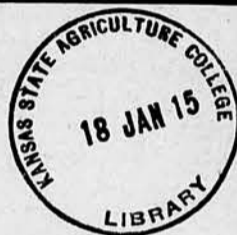
Vol. 45.

January 16, 1915

No. 3.



302



Farm Power Features:

On the Trail of the Modern
Tractor

By F. B. Nichols

An Engine That Went to Work

By Mabel Graves

Other Good Things:

No Farms to Rent in Coffey

By Harley Hatch

Lights That Do Not Smoke

By Vinton Detwiler

Let's Tell About Our Pets

By Mary Catherine Williams

Here's the Barn to Build

A Timely Piece

3 MACHINES IN 1

A perfect seed bed is as important as to sow or plant. The Western Pulverizer, Packer and Mulcher makes a perfect seed bed and leaves a loose mulch on top to retain the moisture in one operation. It will double profits on crops. Made in 8 sizes. 1 and 3 sections. Sold direct to you on one year's trial. Prices, \$22.00 and up.

WE WANT every farmer and land owner to have our illustrated circular. It describes the machine, its principle and advantages over all others. It gives testimonials from many farmers proving what it will do on wheat, alfalfa and other crops. It contains valuable information on how to prepare the soil for better results. Send for this circular today, whether you want to buy or not.

WESTERN LAND ROLLER CO.
Dept. 412, Hastings, Nebr.

GOING TO BUILD OR REPAIR?

Get This Book

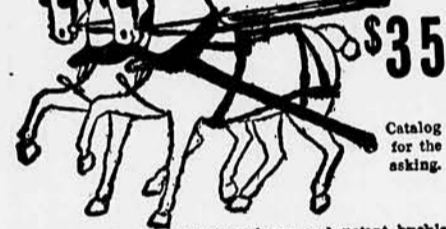
Send for the greatest money-saving catalog ever issued. For farmers, Builders, Contractors and Home Owners. Thousands of Bargains in New Lumber, Roofing, and merchandise from Sheriffs' and Receivers' Sales. We buy in train loads, Hardware, Mill Work, Doors, Window Sashes, Plumbing and Supplies, Paint.

WE SELL IT FOR LESS

EVERYTHING KNOWN IN BUILDING MATERIAL. Simply send name, post card will do, for free copy of this big illustrated catalog. We have just what you need—large or small—from carloads of Lumber to rods and nails. Our three acre plant and 8 years in business is proof that we make good.

KING'S HOUSEWRECKING SALVAGE AND LUMBER CO.
1802 Troost Av., Kansas City, Mo.

THE BEST \$45.00 strictly all oak tanned Western Double Team Harness on earth, with Breaching, and collars for \$35



Hame tugs, 1 1/2 in. with three loops and patent buckle. Traces 2 1/2 in. solid single ply, with cockeyes.

THE FRED MUELLER SADDLE & HARNESS CO.
1413-15-17-19 Larimer St., Denver, Colo.

Veterinary Course at Home

\$1500 A YEAR and upwards can be made by taking our Veterinary course at home during spare time. Taught in simplest English. Diploma granted. Graduates assisted in getting locations or positions. Cost within reach of all. Satisfaction guaranteed.

Write for particulars
The London Veterinary Correspondence School
Dept. 20, London, Ontario, Canada

Dr. E. H. Baldwin writes: "I took the course for my own benefit on the farm, but the success I had started me in practice and now I am going night and day. Your course has been worth thousands to me and will be to any man."

AutoLight Dimmer

A practical device protecting the eyes from glaring lights of other cars. Makes night driving safe. A boon to car owners; inexpensive; absolutely new. With the Auto Dimmer you are sure of a safe drive. Write for folder today telling all about it. Agents Wanted.

A. H. BRETT DIMMER CO.
601 E. Drummond Street
Mason City, Iowa

Man Wanted

District Manager and Salesman wanted in every Kansas county by a big Co-operative Merchandising House. Some of our men in Kansas are making \$5,000.00 to \$7,500.00 a year. Applicants must be hardworking, level-headed men of honesty. No experience necessary. We teach you how to look after our business. You can make big money managing territory and salesmen for us. Write quick for complete information. T. D. Banker, 19th & Campbell Sts., Kansas City, Mo.

FREE to Hunters and Trappers

Five Taxidermy Book Now Free. Rip, with hundreds of photos. Learn this profession. Save your trophies. Decorate your home and den. Taxidermy is a fine art. Taxidermy is a fine art. Taxidermy is a fine art.

NORTHWESTERN SCHOOL OF TAXIDERMY
4501 Wood Building Omaha, Nebraska

JUST ABOUT FARMING

THE day of power farming is here. Farm tractors are being made in almost all sizes, and for almost all purposes. Engines will not displace horses of course, but the rapid growth of the tractor business in the last five years has shown that there is an appreciation of the place for power on western farms. Engines are being used to do the especially hard farm work—and it is a mighty good thing for the horses that this is the case.

Let's plan to raise the standard of Kansas horses with this increase in tractor farming, and to get more efficiency from the horse department. This can be brought about by the use of good mares for the farm work. Breed these mares to the best draft stallion available, and the colts will do much to increase the profits from the year's work.

plowing have been made by the Kansas State Agricultural college. By increasing the depth of plowing from 3 inches which is a "common practice among farmers" to 7 inches it was found that the greater depth gave an increased yield of 6 1/4 bushels an acre in a three year average.

These facts should have first consideration in determining the size of the tractor which will be the most profitable to buy. One should select a tractor of sufficient size to be able to plow in hard ground and plow deeply, and not a size with only enough power to do the work in the way it is now being done.

Furthermore, it is not only important to have sufficient power to plow in hard ground and to plow deep, but to have enough power to do all of the farm work at the time when it should be done.

Power

Farm production is made up of five things—soil, crops, livestock, buildings, and power. Of these five elements, power has come to be one of the most important. It must be used to perform practically all farm operations. Due to the need of deep plowing and more cultivation, the power element has now become all the more important. The power work on farms can be divided easily into three classes, belt work, hauling and field work, and each class further divided into two divisions—light work and heavy work.

Engine Efficiency

The farm tractor manufacturing business is passing through a trying stage in many respects just now. It has developed very rapidly in the last few years, and some of the companies that were manufacturing good tractors made satisfactory profits. This has encouraged a most remarkable interest in this business, and a great many companies have been formed especially for the manufacture of small tractors.

It is logical to suppose, of course, that some of these companies are much better equipped to turn out good tractors than are others. Farmers should consider quality very carefully in buying tractors. There are some mighty good farm engines on the market, and the Kansas buyers should be sure that they get these.

Small Tractors

The important step which should be made in the adaptation of mechanical power for the average farm job is to harness this power in an engine compact enough, small enough, cheap enough and strong enough to do the work required on farms varying from 100 acres up. That this field is large is shown by the fact that there are 2 1/2 million farms ranging from 100 to 500 acres in the United States. For the last few years this uncultivated territory, this promised land of business expansion, has been the goal of more than one powerful company. Many a night's rest has been lost in working on this problem, and many a day's labor has been directed toward its solving.

Farm Drainage

Perhaps the most impressive thing to a Kansas man in traveling in the eastern states is the large amount of tiling that has been done. In the older countries the need of bringing all the land under cultivation has been appreciated much more than in Kansas. A great extension in farm drainage is much needed in this state. If one expects to do work of this kind he can get good help by writing to H. B. Walker, of Manhattan, the state drainage engineer.

Deep Plowing

Definite experiments have been made which show that to increase the depth of plowing from one-half to double the usual depth will increase the crops. Deeper plowing results in a better root bed for the plant. It increases the food and water supply. Probably the most accurate tests of the importance of deep

Binder Engines

A great deal of grain is lost in Kansas almost every year because it cannot be cut at the right time, on account of soft ground. This is especially true in wet seasons. This loss can be largely overcome by the use of a binder engine, which frequently will pay for itself in a day's work in saving grain that otherwise would be wasted.

If one is growing grain he can buy a binder engine if he needs a general farm engine. These engines can be taken off the binder quickly, mounted on the skids on which they come, and then for the 51 weeks in the year when the binder is not in use they can be used for general farm work. And then when the wet harvest comes one can go ahead with the cutting, no matter how soft the ground. The machinery of the binder will run even if the bull wheel does sink down in the soil.

Lower Costs

The labor problem in this country is becoming acute. The upkeep of horses on the smaller farms is the heaviest burden farmers have to bear. It is true that farm prices have gone up, but so has the cost of production. New methods requiring less labor and less expense must be adopted, or the profit ratio will change for the worse. Big farms run on a big scale have proved the efficiency of power farming, hence it appears as if small farming on a small scale, using a power in proportion to its acres, will produce the same desired results.

When we compare the early automobile with the present luxurious cars, we are justified in feeling that an equal advance is possible within as short a time in the more important economical phase of mechanics—the cheapening and perfecting of farm power.

Overloading

Overloading a tractor is a serious mistake, just as is overloading a horse. In the first place, where a tractor pulls only the load which it is designed to pull, the slippage is small, but when it is overloaded the slippage increases at a rapid ratio. The tractor which should be chosen is one which will pull the machinery it is required to pull to do the work in the right way at the right time, and do it with practically no slippage of the wheels. Furthermore, overloading not only rapidly decreases the pulling power, but also rapidly increases the liability of breakage, resulting in serious loss of time. The tractor with the normal load for which it is intended will be able to keep working at it right along, and in the end will do far more work than an overloaded tractor.

These are the first three factors to be borne in mind in choosing the size tractor that will result in your getting the most increased profits. First, get a tractor that will produce enough power to do the work in the best possible way. Second, get a tractor that will produce enough power to do all your work at the time when it should be done. Third, get a tractor with enough power to do the work in the right way and at the right time and do it when pulling a normal load and not an overload.

For a change a few little apples or some that are beginning to decay are fine as an appetizer.

Write for FREE BOOKLET

Brillion

The Original CLOD CRUSHER

Increases Your Crop 8 to 15 Bushels to Acre

The Brillion Clod Crusher (the original and only genuine) will increase your yield from 8 to 15 bushels per acre. It makes a perfect seed bed by crushing, pulverizing, rolling, leveling and packing the soil, thus retaining the moisture a few inches below the surface.

Write today for FREE BOOKLET

MOLINE PLOW CO.
Dept. 412, MOLINE, ILL.

WANTED MEN

\$75. to \$200 a month!

The demand for capable automobile men exceeds the supply. Our graduates are always in demand to fill good positions as Salesmen, Demonstrators, Factory Testers, Garage Managers, Repair Men, Ignition Experts and Drivers.

\$50 COURSE FREE

Six weeks from the day you enter this great school you will be able to repair any make of automobile or drive any car on the market. All who enroll now receive \$50 course in Lighting and Tractor Engineering Free. Write today for our big Free Book and the \$50.00 Free Scholarship Certificate.

AUTOMOBILE TRAINING SCHOOL
Largest Auto School in the World
1142 Locust St. Kansas City, Mo.

HIDES TANNED

Send us your Cattle and Horse Hides. We will tan them and make into Beautiful Robes, Fur Coats, Rugs, Mitts, Gloves, Caps, Etc. All work guaranteed.

Pair of Fur Mitts Free with each Fur Coat or Lined Robe. Write for our New Catalog. We also buy Hides, Raw Furs, Wool Write for list and shipping tags. TRAPPER'S GUIDE FREE.

LINCOLN HIDE & FUR COMPANY.
1004 Q St., LINCOLN, NEBRASKA.

The LINCOLN TANNERY

HENRY HOLM, Proprietor

Send us your hides and furs and have them made into coats and robes and garments for the whole family. Send for shipping tags and catalog.

918 Q. Street, Lincoln, Nebr.

MAKE YOUR OWN GAS

For lighting, cooking, heating and power in the farm home, country store, hotel, etc. with the **Russell Automatic Gas Machine**

Economical, safe, low in price. Write for booklet. Agents wanted. Manufactured by **POPE-WHELOCK MFG. CO.** WATERTOWN, SOUTH DAKOTA

WANTED: Men to Learn the Barber Trade

The World needs more barbers than any other tradesmen. We have originated a plan to teach it quickly and earn some money while learning. Tools included. Board if desired. Open to everyone. Write today for illustrated catalogue.

MOLER BARBER COLLEGE, 514 Main St., Kansas City, Mo.

PRIZE COUPON NO. 3

If you will sign your name and address on the space provided below, and send this coupon to us at once with 25 cents (silver or stamps) to pay for a one-year new, renewal or extension subscription to The Missouri Valley Farmer we will send you as a free prize, postage prepaid, a copy of the popular new book, "The Panama Canal as Seen by a Kansan," written by Arthur Capper, publisher of the Valley Farmer.

This is the newest and most interesting story of the great Panama Canal. It is well printed and profusely illustrated. It's free on this special offer.

The Valley Farmer,
Dept. P. C.-3, Topeka, Kan.

I enclose 25 cents to pay for a one-year (new), (renewal), (extension), subscription to The Valley Farmer. You are to send me free, a copy of Arthur Capper's new Panama Canal Book.

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



THE FARMERS MAIL AND BREEZE

An Agricultural and Family Journal for the People of the Great West

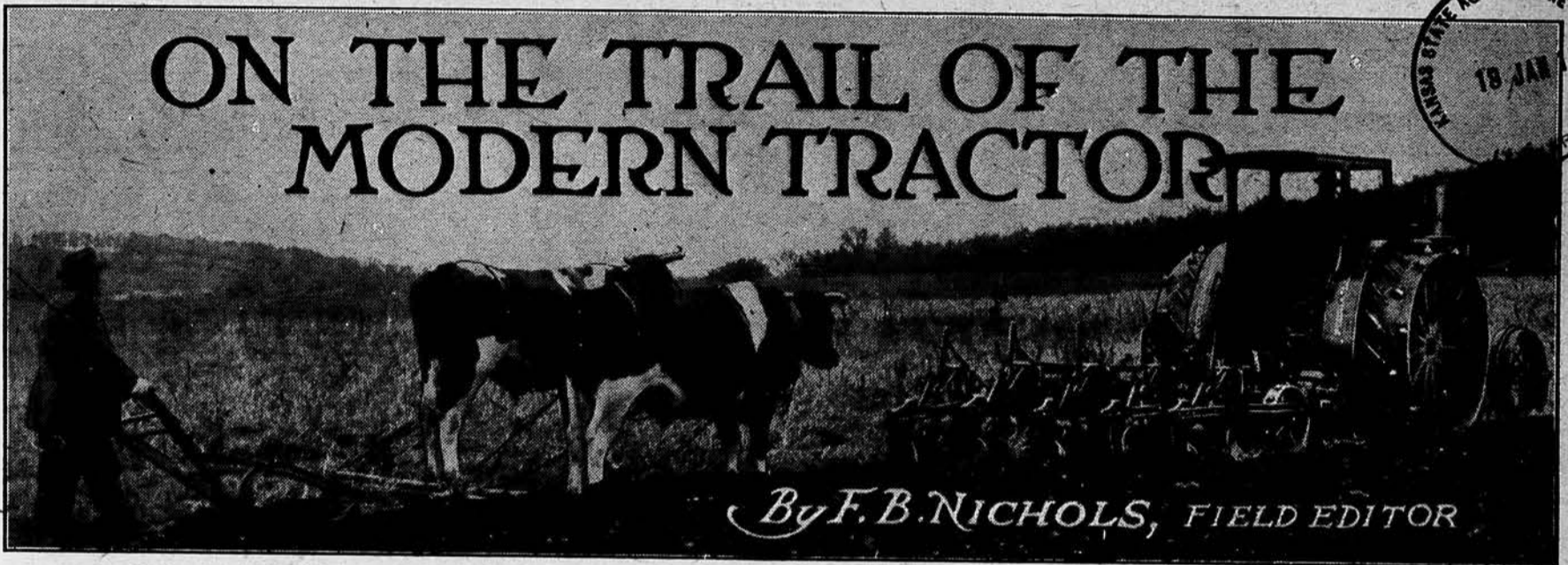


Volume 45
Number 3

TOPEKA, KANSAS, JANUARY 16, 1915

Subscription
\$1.00 a Year

ON THE TRAIL OF THE MODERN TRACTOR



By F. B. NICHOLS, FIELD EDITOR

MEN DO not always think of money. Thousands, no doubt, are trying earnestly and conscientiously to achieve an ideal, whether in plowing a straight furrow, polishing shoes in the city streets or putting together machinery to improve the business of farming. Every little while the history of a day brings out some big man who has succeeded in building a perfect engine, a better motor car, an improved sewing machine. Life wouldn't be half so interesting if we were to believe that such men thought first of the dollars their work would bring. These dollars most certainly will give satisfaction for labor well done, but the gainer, to be the right kind of a man, must have had in his heart first the high ambition to produce something which humanity needed in some one branch of business more than it needed anything else. The really great inventors, men like Edison or Tesla or Marconi or McCormick or John Deere never could have created their wonders if money had been the dominating thought in their lives.

Take, for instance, the business of making farm machinery. Were these men striving wholly and entirely with the one thought of money? I shouldn't like to believe this. Just as unselfishly and tirelessly as Fulton toiled to perfect his steamboat or Ericson his monitor, with motives as lofty, I am convinced, do earnest, ambitious men toil in the great tractor and plow plants of this country to create something which shall make farming pleasanter and more profitable and far and away more attractive. I have always believed this. Much the same impulse actuates a good farmer to run his corn rows straight as buoys up the weary inventor or machinist in trying for the perfect plow. The farmer hopes to produce corn which shall prove better and give a larger yield than any other man's fields, and when this is accomplished he hopes to get the highest price. That is human. The competent bootblack who hopes to have a new-stand some fine day puts his best touches on every pair of shoes he polishes, and he boasts about his skill. That is the proper spirit.

Why should not tractor makers and plow makers and engine builders be as human? Just how much are they doing for the country's greatest business—the business of farming? How human are these toilers in the shops from whose forges and designing rooms come such marvels of mechanical skill?

I went on a journey, a few weeks

ago to see a number of these big plants—not to ask for advertising or subscriptions or any other favors, but entirely as a visitor with an overpowering inquisitiveness about other men's affairs. It chanced that I took with me the memory of real farm work. Especially did I remember days and weeks and months of plowing, especially of plowing for wheat. I had the memory of days and days of work in the heat of the midsummer, where the effort to pull a plow through the hard soil is just about as near killing work as anything can be for horses. I knew what it was to get to the point when the heat and the dry ground make it necessary to decrease the depth of plowing and begin the "skimming" process. It is necessary to do this at times even when one knows that it will decrease yields—for when a man has a large acreage he must get over it in some way.

The knowledge of all these things made me kindly disposed toward tractors. It has always been a fascinating thing for me to work in fields where the plowing is being done with tractors. I like to see the big engines go on and on without being affected much by the heat, with the power to pull the plows at the proper depth even if the soil is hard. Tractor farming will have a great deal to do in increasing the profits in Kansas farming in the next few years; but more than anything else, more important than profits, tractors, large and small will rob farming some good day, of the drudgery and the grind which now have such a blighting influence on boys and men.

Already this powerful influence is apparent. Farming actually is conducted on higher standards. In Kansas, with

the remarkable progress we have made in the last quarter of a century, we must not forget that much credit is due the inventors who have labored long and diligently over the machinery which has made this advancement possible. A study of the farm tools and machinery of 25 years ago and the machinery of today will prove this point.

In Lincoln, Neb., I called at the Cushman Engine company's works, where the famous binder engines are made. About 5,000 of these engines were turned out in 1914, fully 500 of them going to Kansas. The Cushman company has done the pioneering necessary to get the binder engine business started in the last five years. Its business is growing very rapidly.

I have always felt very kindly toward binder engines since my experience on our farm in Woodson county during the wet seasons from 1907 to 1909. While I may be mistaken in this, I am sure that I dug a trainload of mud out of the bull wheel of that binder every harvest day in these years. Experiences of this kind on a hot day give one a very kindly feeling toward anything that will make this work unnecessary.

One thing that has aided in increasing the popularity of these engines is that they may readily be removed from the binder at the close of the season, and used for other purposes. The engine is attached to the binder by simple brackets, so it takes but a few minutes to remove it and attach it to the skids, which come free with the engine. The increasing use of binder engines in Kansas is doing a great deal to save the grain crops; when one has an engine on the binder he can cut the crop no matter how soft the ground.

Fairfield, Iowa, is the home of the

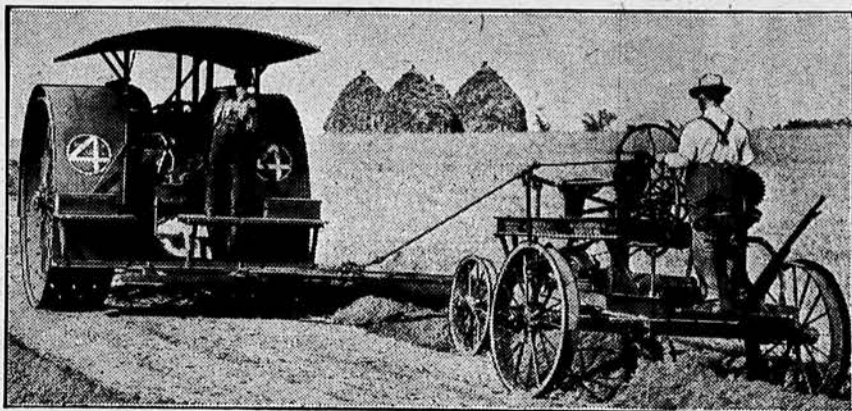
Louden Machinery company, manufacturers of barn equipment. Also it is the home of William Loudon, who made high barns possible. Mr. Loudon made his first hay fork in 1866, which was in the good old days when the hay was moved by hand. As is the case with any man who originates a new idea, progress was very slow at first. The barns in those days were low, and it frequently was necessary to saw a great deal of the supporting framework out in order to get his carriers in at all. The carriers soon demonstrated that they were successful.

The business of making hay carriers and track grew slowly and substantially, and then the manufacture of dairy barn equipment was taken up. The increase in the use of this equipment in the Middle West has done much to expand the dairy business. In addition, the Loudon company has an immense foreign business. Equipment made at Fairfield is in use in almost every country.

In addition to the care and intelligence used in making the Loudon equipment, perhaps the leading reason for this company's success is that it has been making materials that were much needed; it has been filling a definite need. We never could have increased the alfalfa acreage of Kansas so rapidly if it had been necessary to depend on the old-fashioned methods of handling this hay; instead a very high proportion is handled with Loudon tools. With the dairy business increased efficiency has made better equipment necessary. Old fashioned wooden stalls and stanchions are not sanitary, and more than this, they are not easy to use. This increased demand for dairy equipment is merely another encouraging example of the application of the principles of efficiency to farming. Several specialties also are being made, such for example as power hoists for farms. A hoist of this kind, when attached to a gasoline engine, is much more efficient than a horse in lifting hay. Power hoists are being used for this purpose to some extent on the larger farms, especially in Illinois.

I went north from Fairfield to Waterloo, the home of agricultural manufacturing firms in abundance. Waterloo, by the way, is in a mighty good farming region. The William Galloway company has its plant at this town, the leading lines being manure spreaders, gasoline engines and cream separators. Waterloo also is the headquarters for the Armstrong Manufacturing company, which makes a line of well

(Continued on Page 6.)



Tractors Are Being Used to an Increasing Extent in Road Building in Kansas

DEPARTMENT EDITORS

Livestock Editor.....Turner Wright
 Field Editor.....F. B. Nichols
 Farm Doings.....Harley Hatch
 Markets.....C. W. Metaker

Entered as second-class matter Feb. 16, 1894, at the postoffice at Topeka, Kansas, under act of Congress of March 3, 1879.

SPECIAL TO ADVERTISERS.

Changes in advertisements or orders to discontinue advertisements must reach us not later than Saturday morning, one week in advance of the date of publication. We begin to make up the paper on Saturday. An ad cannot be stopped or changed after it is inserted in a page and the page has been electrotyped. New advertisements can be accepted any time Monday. The earlier orders and advertising copy are in our hands the better service we can give the advertiser.

The Farmers Mail and Breeze

Member of Audit Bureau of Circulations.

Published Weekly at Eighth and Jackson Streets, Topeka, Kansas

ARTHUR CAPPER, Publisher.

CHARLES DILLON, Managing Editor.

T. A. McNEAL, Editor.

A. L. NICHOLS, Associate Editor.

E. W. RANKIN, Advertising Manager.

SUBSCRIPTION RATES, - - - - - One Year, One Dollar

ADVERTISING RATES.

50 cents an agate line.

110,000 circulation guaranteed.

DEPARTMENT EDITORS

Women's Pages.....Mabel Graves
 Dairying.....G. Kneill
 Poultry.....G. D. McCaskey
 Mgr. Livestock Advertising.....Frank Howard

No liquor nor medical advertising accepted. By medical advertising is understood the offer of medicine for internal human use.

ADVERTISEMENTS GUARANTEED

WE GUARANTEE that every advertiser in this issue is reliable. Should any advertiser herein deal dishonestly with any subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us promptly, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in the Farmers Mail and Breeze."

Passing Comment — By T. A. McNeal**Don't Care For Religious Discussions**

I am still receiving a good many letters on sectarian religion. Most of these letters are devoted to an attack on the Catholic church or to a defense of the Catholic church and an attack on the publication called the Menace.

I have heretofore intimated that I do not care to give space to letters of this kind. I do not take this position on account of any particular bias. I am not a Catholic and do not agree with its dogmas at all. On the other hand, the style of journalism of the Menace does not suit me. At the same time it is my opinion that Catholics will make a mistake in trying to have the Menace excluded from the mails, for two reasons. The first one is that if they try to have it excluded from the mails it will look like an acknowledgment that it is hurting the Catholic church, and the second reason is that it would give color to the assertion that has been made that the Catholic church is opposed to free speech and a free press.

The charges made by the Menace are either true or not true. If they are not true they cannot do the church any permanent injury. To exclude the paper from the mails would increase the feeling of prejudice against the church. It is not the wise thing to do.

I have said this much in order to try to make clear my own position. I concede to every person the fullest freedom of belief and choice in his or her church affiliations but I do not propose to take up space with religious controversy.

A Big Question

My old time friend and pilgrim through this vale of tears, Judge J. D. Bradley of Attica, asks me a question to answer which would require a knowledge as wide as the universe and a wisdom greater than that of the sages, which I modestly admit I do not possess.

"Look the opportunity in the face," says the judge, "and find out what is the matter with our system of civilization. Is it a fact that our schools, churches and politics have been going wrong ever since the crucifixion of Jesus Christ?"

"There appears to be something wrong somewhere. There is too much dissatisfaction, unrest and fighting for places of vantage in this world of ours. There is a fault somewhere in process of doing business among individuals and nations. The people of Europe and Asia apparently have discovered a radical wrong somewhere and are hunting with guns for the 'nigger in the woodpile.' Each accuses the other of trying to put out his light."

"Is it a fact that the divine right of kings has exploded and that war is a barbarous relic of antiquity that should not exist in a well regulated government? Then why not regulate the machinery of government so that it will run without all this friction and disturbance?"

"Please look these matters up and find out what road is best for those seeking truth and righteousness to pursue in the future that we may avoid the mistakes of the past."

"History shows that the past has been a conglomeration of blindness, mistakes and wrong impressions. Germany is trying to array Asia against Europe by turning loose the Turks, 300 million Mohammedans and 426 million Chinese. The plan of Germany is being enforced. The people are being deceived. We are following the procession. War will kill off the fools. Intelligence should rule the world."

"Show us the way out, Tom."

In view of the wide differences of opinion among the most profound thinkers of the age it would be rather presumptuous for an editor who makes no claim to profound scholarship or even extensive reading to assume that he is wise enough to say what ought to be done to bring about the millennium.

What I think the world needs is honesty, unselfishness, charity and good sense among the leaders of thought and government, for no matter how much of a believer you may be in popular government—and I believe in that with all my heart—we must admit that public thought will be directed by the leaders among men. If the leaders are self-seeking, unscrupulous, intolerant, greedy for place and power, the masses will be led astray, government will be debauched, wars will continue with all their hellishness, destruction and misery.

There never has been a war in history the blame for which could not be laid at the doors of a few men.

Sometimes these men were simply misguided, sometimes they instigated war for greed and power, but always the few led, the masses followed. True enough, the masses might be worked up to the point where they became enthusiastic for war, but they did not organize the conflict or bring it about.

When I speak of leaders I do not mean simply those who happen to hold high office either by heredity, election or appointment. Often the real leaders hold no official positions. They are the power behind the throne. They set in motion the causes that bring about the evil results.

If it were possible to bring about a reformation among the leaders of thought, secular and religious, business and politics, in all the leading nations, the way out would be plain enough. But is that reformation possible? I do not know. I am not as hopeful about that as I used to be.

Judge Bradley thinks the fools will be killed off in the wars. If that were true even this war would be worth all it cost. If all the fools were dead it would be a bully world. There wouldn't be many inhabitants but they would run things right. Unfortunately however, the fools who start trouble very often escape injury.

There is of course a wide difference of opinion as to what constitutes a fool. One man will tell you that the wise man is the one who is able to overreach his fellowmen, to get from them what justly belongs to them and acquire for himself a vast amount of wealth and power and that the fool is the one who is simple enough to trust his fellowmen and who has no desire to get the best of anybody.

In my opinion the only wise man is the one who is honest, tolerant, broad minded, regardful of the rights of others, willing to do his share of the work of the world; in short, the man who makes the Golden Rule the rule of his life and lives up to it to the best of his ability. He is the one who will get the most satisfaction out of life. The things gained by greed and avarice and unfair dealing will prove worthless in the end. The man who has spent his life and the energy of his mind and body in scheming and cunning and selfishness may never realize that he has been a fool but he has been one just the same.

No, the fools will not all be killed off in war. A few of them will be but too many will be left alive and they will hinder the progress of the world and probably prevent the bringing about of an equitable system of government.

Opposed to a State Highway Commission

Writing from Devon, Kan., John A. Graham expresses himself very forcibly against the plan of a state highway commission.

"It looks," says Mr. Graham, "as if some folks are always trying to create more offices for the poor farmers to pay for and the poor, hard-working farmers seldom get a chance at these fat jobs."

"As for building good roads from county seat to county seat, that would be nice for those who live near the roads and for those who own automobiles, but it would not be fair to the farmers who live away back from the county seat road and yet have to help pay the expenses. Building and keeping up these good roads for motor cars to spin around on is what is increasing our taxes. Good roads are a good thing but I don't believe in taxing the laboring man for the benefit of the automobile traffic."

"One man even went so far as to say that he was in favor of bonds to build good roads. I don't believe in voting a debt on our children to pay after we are dead. I don't think it is right and I don't see how any one else can."

Reasons Why He's For Germany

Conrad Kruger of Pfeifer, Kan., is one of several German readers who desire to convince me of the entire justice of the German cause and the utter wickedness of those who are against the Fatherland.

Mr. Kruger has fourteen relatives, mostly nephews, serving in the German army. These supply just fourteen reasons why Mr. Kruger is most earnestly for Germany. Do you blame him? I do not. I have not the slightest doubt of his sincerity or integrity. No one could make him believe that the war was not forced on Germany largely by the machinations of England.

On the other hand, the subscribers of this paper who are of English, Russian, French or Canadian origin are, practically without exception, firmly con-

vinced that Germany is wholly to blame for the present horrible situation in Europe. Many of them have relatives in the army of the allies and every one of them is to their minds an incontrovertible reason why the allies are right. They are just as honest, as intelligent, and as sincere as is Mr. Kruger. All this gives additional proof of the futility of war as a settler of any principle.

Supposing Germany is eventually conquered. Will Mr. Kruger or any other German who believes in the justice of the German side be any less certain that Germany is right? Or if it should happen that Germany wins over all her foes will the people of English, French, Russian or Canadian extraction change their views concerning the question of who is right?

The result of this war will depend not on the righteousness of the side that wins but on the extent of its military and other resources or possibly on some disagreement among the allies which will separate them and allow Germany to deal with each singly.

Never was there a more complete demonstration of the utter folly and wickedness of war as a method of settlement of national differences than this war has supplied. I have decided opinions as to who is most to blame for the present strife, but back of the immediate cause for this war lies the fatal error that has obsessed all the rulers of the leading nations, that vast armament is conducive to peace and national safety.

The rulers of Europe are to blame for this war. The German ruling class led by the kaiser has been more frank in subscribing to the doctrine of militarism than the ruling classes of other nations but all of them have believed in the same doctrine.

It may be and often has been said since the war began that the people of the various nations are solid for their respective governments, which I have no doubt is true. They are for it just as my German friend Kruger is for his Fatherland, just as the average Englishman is enthusiastically against Germany and for the mother country; but my opinion is that if the whole matter had been left to the Krugers and to the unofficial citizens of France and Great Britain and Russia before there was any war, there would not be any fighting now either along the Ypres or over in Poland.

Of course after a war has begun the average man will stand by his country but if it had been left to him, speaking collectively of the average men of all the countries engaged, he would know that there was no good reason why he should go out and kill his neighbor across the line or burn his house or ruin his fields.

But the average man in any one of the countries engaged had nothing to say about starting the fight. He did not know in fact, that a fight was likely until it was actually on and he was called on to put on a uniform and shoulder a gun or help man a battery and go out to fight some other average man whom he had never seen, with whom he had no quarrel and about some matter that he did not understand.

But once the war is begun this average man is in no condition to be reasoned with. In fact he largely quits thinking for himself and follows orders given by other men who think for him. As a good soldier it becomes his duty not to ask why he is killing his neighbor across the line but just to kill him without asking questions. And the more of these neighbors across the line he can kill the more he is entitled to honor according to the military theory. If he kills one that shows that he is an efficient soldier but if he manages to kill or disable a dozen that will entitle him to wear the German iron cross or the Victoria cross or the medal of France. Of course he could not give any sane reason why he should kill these fine young fellows, English, French or German as the case may be, and ordinarily his heart would be filled with pity and deep regret at their death, but war has turned all his viewpoints topsy-turvy and so he swells with pride as he looks at his decoration and thinks of the slaughter he has made.

What a futile thing war is! What a wicked thing it is and how incomprehensible the folly of those who are responsible for it!

How About Drains?

I should like to know about the Kansas drainage laws through the Farmers Mail and Breeze. I bought a tract of land that should be drained. It slopes down to my neighbor's land. He has made a ditch across his land. Now may I have the right

to make a ditch to let the water into his ditch without his consent, since his ditch reaches my land? Has he the right to ask whatever price he wants to ask for the privilege of connecting with his ditch?
Hillsboro, Kan. READER.

If your neighbor's ditch is a private affair, as I infer from your letter, you of course would not have the right to connect with it without his consent.

Under the drainage law of Kansas, Chapter 100, Laws of 1879, you would have the right to petition the township trustee asking him to establish the ditch. This law provides:

1. That there shall be filed with the township clerk a petition signed by one or more persons owning lands adjacent to the line of the proposed ditch, giving description of proposed starting point, route and terminus. With the petition shall be filed a bond with good and sufficient securities conditioned that the petitioner or petitioners shall pay all expenses incurred in case the township trustee refuses to grant the prayer of the petitioners.

2. The petitioner shall cause a notice in writing to be served on each of the owners of lands that will be affected, setting forth the time when the petition will be heard by the township trustee.

3. The township trustee at the hearing shall call to his assistance an engineer to locate, level and measure the length of the proposed ditch.

4. The expenses of locating and digging the ditch shall be apportioned among the persons to be benefited by the ditch, said expenses to be determined by the township trustee.

5. The land owners affected, or any one of them, has the right to appeal from the apportionment of the township trustee.

6. The appeal shall be tried before a jury in the probate court.

In the case mentioned by "Reader," his neighbor would be entitled to receive such compensation for running the drain through his land from "Reader's" land as the township trustee or the jury might award. Of course all the expense of these proceedings may be avoided if "Reader" and his neighbor can come to a private agreement.

A German-American's Opinion

Editor The Farmers Mail and Breeze—I too am a reader of your page. I am a German, born in America. I am American first and last. But Germany comes next. Germany occupying a central and therefore a very important position among European countries, is one of the great world powers.

The German people are noted for loyalty, honesty and thrift, and are looked upon by the world as admirable citizens. The Germans as a nation are eminent in literature, art and science. City schools all over Germany are remarkably good. In the matter of educating its people Germany is a model for the world. This is what one of our Kansas public school books tells us.

Now why do the English, French, Belgians and Russians want to annihilate the German empire? Have not the Germans as much right to have their own country and government as all the other countries? Are not the Germans flesh and blood like other people?

In these days of railways, Germany's central position is superior to that of England for European trade. On the other hand there are serious disadvantages in this position, for the many near neighbors have caused much trouble. Notice what an irregular boundary Germany has. Mountains form a part of the southern boundary and water a part of the northern, but the eastern and western limits have been decided largely as a result of war. That is why the boundary is so irregular and so artificial. In order to keep the present boundaries the Germans must be prepared to defend them at any time. This is another thing the Kansas school books tell us.

H. B. Lang says that William has made Germany a military camp. Why, Mr. McNeal, did William do so? Let us stop nosing around in European government for a minute and look at our own government. Is the United States doing anything to help bring peace to the warring countries? Are there not hundreds of horses bought all over the country for the present European war? Don't you think it looks almost as if the United States is helping to prolong the war? Why did the United States send Christmas stuff to some countries and not to Switzerland? She is a republic and a neutral country; she has to open her homes for the poor, war stricken children. Is the United States keeping her reputation as a neutral nation or is she losing it?

You say William most completely typifies militarism and the fruit of militarism is war. What will be the fruit if the people of the United States keep on sending horses to help keep up this awful evil? The papers have stated that the United States has sent ammunition and all kinds of stuff to keep up this European war. Do you not fear that the United States will reap war sooner or later? Then who is at fault? What is the cause? What do you Americans think we would do if the English, French, Belgians and Russians should want to annihilate our country? Do you not think we would train a mighty army and a great navy to fight for our existence?

The good sense of the German people is shown by the way they treat their woodlands. Instead of destroying them by fire and axe as has been done in so many parts of our own country, the Germans have developed an excellent system of forest culture. It is partly the result of the example set by the Germans that has led our own country at least to begin to pay attention to the care of our forests. The Germans make use of the most scientific methods in their mining work and other nations have learned from them many of the best methods in the reduction of ores. Germany has led in the development of the beet sugar industry. Germany has reached its high rank since the Franco-German war. Prior to that time what is now the German Empire was made up of twenty-six states, more or less independent and often warring with one another.

Germany contains 209,000 square miles, being twice the size of Colorado but much smaller than Texas. It has more than 60 million inhabitants or about two-thirds as many as the entire United States. The German does not gesticulate; he thinks and when he has thought he writes. He goes further toward the root of things than the thinkers

of any other nation. His spade is always active. He is nothing if not profound.

The people of Germany are found in all the countries of South America as well as the United States where they are regarded as desirable citizens.

A GERMAN.

I have published more letters favorable to the Germans than to the allies and for this reason: The sentiment of the people of the United States is strongly against Germany in this war. I think it is safe to say that the sympathy of three fourths of the readers of the Farmers Mail and Breeze is against Germany. The Germans recognize this fact and say that the reason for it is that Germany has not had the opportunity to present her side of the case to the American people. I receive a German publication frequently that is devoted to defending Germany in this war. Because I desired that the German readers of the Farmers Mail and Breeze should have the opportunity to state their side I have published more of their letters than I have of the letters from the sympathizers with the allies.

I have tried to keep an open mind. I have read what the German statesmen have to say as to the causes of the war and in justification of Germany's course. It is my deliberate opinion that if the case were submitted to an impartial jury with no evidence introduced except the statements made by German authorities, the jury would bring in a unanimous verdict against Germany.

Just One Word

One word from Germany could have prevented Austria from attacking Serbia and compelled the submission of the matters in dispute to arbitration. Germany has shifted her ground at least twice since the war began. Her first statement was that she was standing as the defender of modern civilization against the Slav. Now she asserts that she was forced to defend herself against the encroachments of Great Britain.

At first she defended the invasion of Belgium purely as a military necessity and declared that it was her purpose to recompense Belgium for the damage done. As this explanation did not satisfy the outside world, she shifted her ground and now declares that Belgium was in league with England and France and that France was preparing to rush her troops through Belgian territory. German writers are especially bitter against England, asserting that she plotted and brought on this war.

In the conduct of nations their motives must be judged, as in the case of individuals, by their actions. If Great Britain had plotted the war, knowing as she did that she necessarily would be drawn into it, she would have been prepared to enter the fight. She was not prepared and is not prepared even yet.

To say that Great Britain plotted a war that might mean her complete destruction, without making any adequate preparation, is to say that the English statesmen were a set of fools rushing blindly toward ruin.

Germany says now that she was forced to defend herself notwithstanding the fact that she declared war on both Russia and France before they declared war on her.

The trouble with Germany is abnormal egotism. This crops out not only in the writings of all the German authors that have come to my notice but also in the letters received from German sympathizers in this country. They became obsessed with the idea that no other people on the face of the earth can be compared with them in science, culture or military ability. They came to believe that they were the chosen people destined to rule the earth and that it was not only their privilege but their duty to impose their superior civilization, their superior knowledge and their superior mind on all the other inferior peoples of the earth.

William, the Boaster

The individual who becomes filled with pompous pride; who constantly boasts about his own achievements and superiority and who insists that his methods and his ideas should be adopted by everybody else is sure to find himself with mighty few friends. And so it was with Germany. Her statesmen became arrogant and dictatorial. Her emperor was given to vainglorious boasting and paraded the doctrine, obsolete in most of the world, of the divine right of kings; especially of his own divine right. He announced that Germany was able to stand against the world and evidently believed it.

Those who were in control of things in Germany believed that they could win this war and win it in a comparatively short time. The time indeed seemed to them to be peculiarly opportune. Russia they regarded as a big, overgrown nation with little military power. Had not the comparatively small nation of Japan whipped it with ease?

Just prior to the outbreak of the war there was much talk of popular discontent in Russia. There were rumors of revolution. Germany believed that Russia was so torn with internal disorder that she would not be a formidable foe.

France was not ready either. Less than two months before the outbreak of the war one of the leading statesmen of France in a speech before the Chamber of Deputies dwelt powerfully on the unprepared state of the republic for war. The popular vote was against the military party in France. The Germans firmly believed that they could sweep over France within three weeks and bring her to her knees, then turn with all their forces on Russia and beat her into submission. They believed indeed that Austria would

be more than a match for Russia and then they counted on the help of Italy. They knew that Great Britain was not ready and referred with scorn to the trifling British army.

If Germany had known six months ago what she knows now this war would not have occurred. War might and probably would have come later for as I have said, the fruit of militarism is war.

The Sinews Of War

Aside from their blatant and wearisome egotism the Germans are a wonderful people. What they consider their strength is really their weakness, and their inordinate pride is certain to get a fall.

No right thinking person, it seems to me, should want to see the German nation destroyed. Its pride will be humbled. It is sincerely to be hoped that the Germans will get over the notion that they are destined to rule the world and that militarism will be destroyed. Then the Germans will develop along the lines that are most useful to themselves and all mankind.

In regard to the supplying of munitions of war to the belligerent nations, if I had my way about it I think I should stop all shipments of that kind. I should stop also the exportation of horses to be used in war. There is however, room for argument on this question. The refusal of the United States to permit the shipment of munitions to any nation might shorten the war and then again it might not. The Germans object to such shipments not because they are opposed to neutral nations supplying such material but because on account of German commerce being driven almost entirely from the ocean, Germany cannot get these supplies while the allies can. If the situation were reversed and Germany could get the munitions of war from the United States while the allies could not, I wonder if German sympathizers in this country still would object to the shipment of these supplies?

Truthful James Was Too Conservative

Editor The Farmers Mail and Breeze—Memories of old times in western Kansas were recalled to my mind by reading in the Farmers Mail and Breeze of December 12, Truthful James's account of the cold winter of '85, when it was so cold in western Kansas that it froze both legs off an Indian cigar sign and froze 110 per cent of a man's herd of cattle.

I know from second hand personal experience that every word of Truthful's account is true. The only fault I found with his story was that he didn't tell half of it.

That same man who lost so many cattle had a brother-in-law named Bill back in Ohio, who had soaked up enough booze to float a battleship. However, the summer before the cold winter mentioned by Truthful, Bill had become disgusted with himself, taken the pledge and come to Kansas, where he thought it would be easier to escape temptation.

When that blizzard came up Bill was out rounding up cattle for his brother-in-law, and when he saw it coming across the prairie he lit out toward the house like a brindle pup after a calico kitten. Bill and the blizzard both struck the house at about the same time but by the time Bill got the door open and got inside, the outside of his carcass was frozen as hard as a piece of flint.

Bill's sister and her husband got Bill up by the stove and began to work with him. They had to go easy at first to keep from breaking him, but as he was frozen only about a half inch deep they got him pretty well thawed out in a couple of hours. It would have been better if they had thawed Bill out with snow, but it was so cold out doors that it was too much risk to try to go out after snow.

They rubbed Bill all over with arnica, and made him swallow a pint of pain killer and then put him to bed.

The next day Bill was a sight. He was able to be up but he had swelled to nearly twice his natural size and was the color of a frozen beet after the frost has left it. He was about as graceful looking as a poisoned pup and felt worse. He would stand around and shake himself like a Leghorn rooster with a frozen comb.

About the seventh day Bill began to peel off. He peeled off just as deep as he had been frozen. When he had completely sloughed he looked as fresh and frolicsome as a yearling colt.

When he left Ohio he weighed 240 pounds, had a proboscis like a young hippopotamus, moles on his neck and a wart on his chin. Two weeks after he was frozen he weighed 178 pounds, had a decent looking nose instead of a proboscis, had lost his moles, warts and other unnecessary projections and undulations and looked as if he never had been within a thousand miles of a jug of booze.

He was so stuck on himself, when he looked into the glass, that he went to town and had four dozen pictures taken and sent them back to his friends in Ohio with these words: "See what the climate has done for me." And the very next summer thirteen of his brother members of the Independent Order of Liquidators bought tickets for Kansas to see what the climate would do for them.

Truthful should not break off in the middle of his narrative or the old settlers in western Kansas will think his memory is falling.

Kansas. H. E. PEARCE.

The Island of Heligoland

Editor The Farmers Mail and Breeze—Can you give me the correct answer to this question, What did England get in exchange for what is called Heligoland, which Germany has now?

Auline, Kan. J. W. NIELL.

Heligoland is an island 35 miles off the western coast of Schleswig-Holstein. It is less than a mile square, but is a very strong strategic position and well fortified. The island was occupied by Great Britain in 1807 although it belonged at that time to Denmark. It was formally ceded to Great Britain by Denmark in 1814. Great Britain transferred Heligoland to Germany in 1890 by treaty. There must have been some consideration for this transfer but it does not seem to have been made public, or if it ever was made public the fact has escaped my notice.



On the Trail of the Modern Tractor

(Continued from Page 3.)

drills that has become rather popular in Kansas in the last three years. The dry seasons have increased the interest in drilled wells in Kansas, and they have shown how important it is that an abundance of water should be provided to last through the dry times. Deep wells will solve the water-supply problem throughout much of Kansas.

Charles City is another noted manufacturing center in Iowa, the leading concern there being the Hart-Parr company. This company has taken a very important part in developing the gas tractor business; there are a good many engines made by this company in use in Kansas. The company has remarkably large and well-lighted shops covering a strip 2,600 feet long and 460 feet wide. The company was started in 1901 by C. W. Hart and C. H. Parr, young graduates of the engineering department of the University of Wisconsin.

The larger types of tractors have been featured by this company in the past, which has been the rule with most other companies also. These tractors have been sold in many foreign countries; this company has had an especially heavy foreign trade which was somewhat cut short by the war. For several years, however, the designers have seen the need for a smaller tractor. For about two years some very active work has been done on this problem. This has resulted in the building of the Little Devil tractor, of 7½ horsepower, which sells for \$750, or just \$100 a horsepower. An effort has been made with this tractor to make it as simple as possible. The motor is of the two-cylinder, two-cycle, horizontal type. There are only seven gears, all except two of which run in oil. The tractor has two field speeds.

A feature of the Hart-Parr engines is the oil-cooling system. The cooling oil is supplied with the engine, and it lasts for many years. There is no danger of this oil freezing, and it always is ready when it is wanted.

Minneapolis and St. Paul form the tractor center of the United States so far as the number of firms engaged in that business is concerned. In all there are about a dozen in the two cities marketing tractors or thinking pretty strongly about doing it, and several others may get into the business later. Several of these companies, such as the Minneapolis Steel and Machinery company, the makers of the Twin-City tractor, are very strong and substantial, but others are not so strong. In addition to the local trade, a great many of the Twin-City tractors have been sold in Cuba.

The Kinnard-Haines company makes the Flour City tractor, of which a good many have been sold in Kansas. The trade of this company in the Middle Western territory is increasing. The Hackney tractor is made in St. Paul. This tractor has the plows under the engine. Some of these tractors have been sold in the Middle West, but perhaps the largest trade has been in the Dakotas and Minnesota. The Bull Tractor company also has its headquarters in St. Paul; it has sold a great many tractors in the last year.

I called on the Emerson-Brantingham company at Rockford, Ill., where the famous Big 4 tractor is made. This company also is in the small tractor game with the Model L tractor, recent-

ly put on the market. An extensive line of tractors is made, from the little Model L to the Big 4-45, which is as big as a house, depending somewhat of course, on the size of the house.

The Emerson-Brantingham company is a large concern, having an almost "complete line," which has been the ideal of many of the leading farm manufacturing companies. Tools to produce almost all the leading crops are made, and in addition the company has several lines of steam engines and threshing machines. The members of the company believe that the tendency in the future will be toward smaller tractors and threshing machines in the Middle West. They believe that when a man owns a tractor to do his plowing he might just as well own a small separator, so he can do his threshing when he wishes. A small grain separator is not expensive, and it makes a man independent of the larger commercial outfits. There is no doubt that the tendency has been toward the smaller tractors and separators in the last few years, as the record of sales of the leading companies shows.

Especially do the designers of this company believe that there will be a great demand for the small tractors in Kansas and the other states in the Middle West in the next few years. The tendency, as they view it, will be for the small tractor to take the place of horses on the average farm to an increasing extent. They think that there always will be horses, and a great many of them, but they believe that tractors will be used for much of the heavy work.

Perhaps the most famous of the Chicago firms is the International Harvester company, which has made much progress in getting a "complete line." The Fairbanks-Morse company also has its headquarters in Chicago. There are a good many Fairbanks-Morse engines in use in Kansas. The Bullock Tractor company, which makes the Creeping Grip tractor, is at Chicago. This tractor is especially well adapted to soft ground, and the company has a good trade in the rice fields. A considerable effort is being made to introduce this engine in the Middle West. The Baby size has 10 horsepower on the drawbar, and it sells for \$950.

The trip would not have been complete, of course, if I had failed to go to LaPorte, Ind., to call on the famous Rumely company. I went there from Chicago. This company makes the famous "Oil-pull" engine, which has been sold very extensively in Kansas and the other states of the Middle West. The Rumely company has the small tractor type, also, in the new Ideal Pull engine. This tractor has been placed on the market recently. It has been tested under field conditions for about two years, however, so the members of the company know exactly what it will do. It has the plows under the engine.

While the members of the Rumely staff think that there is a good future for small tractors, they do not view the field with so much enthusiasm as most of the other manufacturing concerns. The Rumely company expects to get a good share of the small tractor business, however, with the Ideal Pull.

After coming back west from LaPorte, I stopped at Sandwich, Ill., the home of the Sandwich Manufacturing company. This company was organized in 1855, and while it is not nearly so large as many other concerns it always has been highly regarded by most Kansas farmers. The leading lines are corn shellers and hay balers, and the company has had an especially good demand for both in Kansas. Gasoline engines have been added to the line recently, largely to take the place of the horsepower trade. In the past the manufacture of little horsepowers to run the corn shellers was quite a business, but now the buyers are demanding engines.

The tendency has been the same with the hay balers. Until within the last few years all the balers were horsepower, but now very few horsepower balers are desired. Almost every buyer demands a power baler, as they are much more efficient and powerful than the horsepower types. We have passed the days of animal power for stationary work. This is the day of the engine.

At Peoria, Ill., there are three tractor firms. The largest of these is the famous Avery company, which makes a very large line of farm machinery. The Avery steam engines and the Avery separators are used a great deal in Kansas, especially in the wheat belt. The larger makes have been especially popular.

This company is building a complete line of gas tractors; it has eight sizes. The smallest of these develops 8 horsepower on the drawbar. The company is selling many of the smaller sizes; it has noticed that the tendency is decidedly toward the smaller tractors. It is expecting an increased demand for the small tractors in connection with the smaller grain separators, for the one-farm outfits. The Avery company has done a great deal of work in developing the one-man plow. The self-lift features of the Avery plow are quite popular. The principles worked out by the engineers of this company are used on other makes, as the Avery company has been willing to let other companies use its plow patents.

There is a branch of the Holt Manufacturing company at Peoria. This company makes the Caterpillar tractor, which is especially popular for soft ground and in orchard work. The main plant of this company is at Stockton, Cal., and at first the main effort of the owners was to get the tractor trade of the Far West. The machine became so popular, however, and the sales in the

eastern part of the country were increased to such an extent that it was decided to build an eastern factory.

The Peoria Tractor company makes a small tractor which sells for \$650. The company has worked up quite a trade in the Middle West, and even out into the Far West, where the tractor is used in orchards quite extensively.

The Witte Iron Works company of Kansas City has created an important place for itself in the gas engine field in the last two years. Seven sizes of engines are made by this plant, from 2 to 22-horsepower. These come either mounted or for stationary use as desired. In addition, the plant builds saw-rigs, of 6, 8 and 12 horsepower.

The extraordinary amount of building work was a feature at the Witte plant. The manager also was hiring more men. Despite the big force and the marked industry about the place the stock of engines was low; it was not enough to last more than two or three days with some sizes at the time of my visit. It is quite obvious that there is a great demand for the Witte line.

Perhaps the main reason for the success of Ed. H. Witte and his engines is that he builds them well. Then after building a good engine he has adopted an economical selling method and low prices. The engines are produced with a small margin of profit and the selling cost is very low.

I had a mighty interesting time in the several weeks I was with the machinery manufacturers. And I am much impressed, now that I am back home, with the fact that they are pretty intelligent men. While all these men are trying to make satisfactory profits, precisely as the farmers wish to do, they also have ideas for the advancement of the agriculture of the country which they are trying to work out and which they believe will be of much benefit. In the careful study of farming needs, in maintaining publicity bureaus, farm experts, in issuing books and circulars of value to farmers, some of these companies, especially the "I. H. C." are spending thousands of dollars. This is not philanthropy. It is keen business foresight but it is foresight which carries immense good to the farmers.

This is not always understood by farmers. What we need more and more is a spirit of co-operation between the manufacturers of farm machinery and the users. Both should make more of an effort to get the viewpoint of the other to a greater degree. The manufacturers, I believe, have met farmers more than half way in this as a rule. Especially has this been true in the last few years. Most of the high-handed methods of dealing with the customers, which some companies may have had in the past, are not a part of the modern practice. The modern general manager of a machinery firm desires very much to please his trade, and any man in his organization who does not conform to the policy of the house usually is discharged in short order.

Another thing that farmers ought to learn more about is the cost of producing farm machinery. In the last few years there has been a large increase in the cost of labor and materials, and yet there have been but few advances in the cost of farm machinery. Many of the companies have lost money in some lines, and several of those I called on are in hard lines financially. Life in a big machinery plant is complex.



A Tractor Can Produce Power at a Much Lower Cost Than Animals

Use For Small Tractors

Power Should Be Used For the Heavy Work—Increase the Colt Crop



Tractors Are Being Used To an Increasing Extent In Harvesting

TWO facts stand out prominently in considering the power problem on Kansas farms today. There is a greatly increasing interest in small tractors and more of the farm work is being done with mares.

Tractors will never fully take the place of horses in Kansas farming. There is now, and there always will be work that can be done more cheaply and more easily with horses. But tractors can be used for a great deal of the heavy, killing work and they can do this work at a lower cost in many cases than can the horses. The development of the smaller tractors, with the power lift plows, so that the outfit can be operated by one man, has increased the field for the tractor in this state. There will be a great increase in tractors in Kansas in the next few years.

The most important thing for a farmer to consider in buying a tractor is the quality. This is especially true with the smaller tractors, for the greatly increasing interest in the smaller engines has encouraged many companies to produce engines that are not up to the quality of the big machines. It is extremely important to consider the reputation behind the tractor. Is the company of which you are buying the machine well established? Has it been successful in making tractors?

In other words, care should be taken to guard against tractors built on half-baked ideas. When you buy a tractor from the standard companies you are certain of getting an engine that has received thought and study by specialists who know the problems of farm tractors.

One should avoid the tractors at the lower prices unless he is sure that there is quality in the construction, and the average man should remember that it takes a man who has had some experience with tractors to judge this. If an agent comes to sell you a tractor of a make unfamiliar to you, demand that he prove what the machine has done under your conditions, or under conditions similar to those you have. As an example of the importance of this, I know of one of the leading smaller tractors that has given good results on most farms in the glacial soil section, but it has done rather poorly on many Kansas farms outside the glacial soil belt. Learn what the engine will do under your conditions before you buy it.

The item of good care is more important with farm tractors than most men realize. Tractor manufacturers are very caustic in their comments on the way their tractors have been treated after they leave their hands, and they have gone to a great deal of pains to prevent this lack of care which they are sure their tractors will get after they are sold.

This is especially true with the smaller sizes, for it is to be expected that the smaller engines will be abused more than the larger sizes, as more of the operators will not be experienced in engine operation.

Most of the modern small tractors are very simple; especially is that true of the machines made by the standard firms. The important thing in buying a tractor is to consider carefully what the agent says in regard to its care. Study the book of instructions that comes with the engine, and obey these suggestions. If you do this you will increase the life and profits from the engine very materially. A disregard of the rules of care for the engine may result in putting it into the scrap heap in a hurry.

Before a man buys a tractor, however, the question he is most concerned in is the extent to which it can profitably be used to take the place of his horses. That brings up the question of the horses

good mares for the lighter work, and have them raise colts. A few good colts every year will help out the balance at the bank very materially.

That there is a decided interest in tractors in Kansas is evident from the sales in the last year. All the tractor manufacturers say that Kansas is the best state in which to sell the smaller sizes. This increasing use of tractors is a very encouraging item in the progress of the state's agriculture. But this movement should be properly directed.

Perhaps the most important thing for a wheat grower to consider before deciding about buying a tractor for plowing is the increased yields that can be obtained from deep, early plowing. The importance of this deep, early preparation is appreciated by all the thoughtful farmers of Kansas. Some very important tests on seedbed preparation for wheat have been made by L. E. Call at Manhattan, which have shown the extreme importance of deep, early preparation. Every man who is expecting to purchase a tractor ought to write to Professor Call and ask him for the bulletin telling of these results.

The Home Merchant

The parcels post should break the ice between the farmer and the home merchant. In reading an article published in a certain well informed journal of November 24 I saw a statement to the effect that the farmer is making the



Preparing For a Larger Wheat Crop in Reno County

on Kansas farms, and when this is considered one is forced to admit that this department is not being handled right at present on many farms. Kansas has 150 million dollars invested in horses and mules, and it is costing 40 million dollars a year to feed them. We are not getting the profit from that maintenance charge of 40 million dollars that we ought to get.

More of the work on Kansas farms should be done with mares, well-bred mares, and these mares should be bred to the best draft stallions available, so the colts will help to increase the profits at the end of the year. Of course it is true that the mares will not do quite so much work as a gelding of the same weight, but if a tractor is used to do some of the especially heavy and hard work, like plowing and harvesting, mares can be used for the lighter work very successfully. In other words, the aim should be to throw the heaviest farm work on an engine, and then to use

least use of the parcels post. It was generally understood that this would be more beneficial to the farmer than to any other class of people. I am a reader of the Farmers Mail and Breeze and spent the first 26 years of my life on a farm. I have never lost interest in that grand old occupation so healthful and invigorating to the mind and muscle of man, if properly directed.

The fact of the matter is, as I see it, that the farmer who thought he was going to get so much more for his farm products such as butter and eggs by using the parcels post to ship them direct to the city consumer, has come to find out that the high prices are paid only for first class quality and what he considers first class quality does not fill the bill when remittance is made. What he receives after deducting carrying charges, culls, shrinkage and other items, is less than the home merchant would have given him.

This has a tendency to bring about a

more satisfactory understanding between the farmer and the home merchant than existed before and many of the farmers who have tried this method and who have been supporting the mail order houses have begun to fall back on the home merchant who has always been a friend in need.

We are now paying 25 cents for butter and 27 cents for eggs. In going over the December pages of the Montgomery Ward grocery list, which I keep here in the store, I find that I am selling nearly everything offered therein at their price or less and I am urging my customers to submit their made-up orders to me.

Is not this an incentive for the farmer to stay at home with his business and co-operate with the home merchant? Show him the cash so that he won't have a pile of money on his books drawing no interest and he will gladly meet all these so-called cheap prices. Then if they will not co-operate it shows very clearly that they do not wish to trade with their home merchants.

I am for the farmer, with the farmer, now and all the time and wish him a prosperous and happy 1915.

Alma, Kan. Will L. Hughson.

Wheat Rolling Pays Well

BY M. ANDERSON.

In the early days the soil was full of grass roots and decayed vegetable matter or humus. The ground would pulverize well, and it was loose and spongy. It would take in water rapidly, and would not get crusted or packed on top, as it does now. It would absorb the moisture and hold it.

But we have farmed some of our land for 40 years or more, continually cultivating and cropping it every year without putting scarcely any humus back into the ground. Most soils now are poor in humus. The land crusts on top when we get a heavy rain, and it does not absorb the water as it used to do. A heavy rain always leaves it with a hard crust. When this crust begins to dry, the ground begins to crack and the moisture evaporates. A field in that condition, with a hard crust on top, whether it is winter wheat or other grain, has a small chance to produce a good crop. It will evaporate the moisture rapidly, so that unless we get a good big rain every week during the growing season our crops will dry out. The soil should be rolled.

The rolling of winter wheat should be done as early in the spring as possible, as the freezing and thawing during the winter will heave or lift the ground in many places, which causes winter killing. The ground will crust and crack and expose the roots to drying winds which will kill or dry out the wheat. The moisture will evaporate from the ground very rapidly when in this condition. That is why the rolling should be done as early as the conditions will permit.

Power Farming at Geneseo

We bought a 40-60 Caterpillar tractor last spring, and we have done a great deal of work with it. We have used it mostly for threshing, plowing and disking. In plowing 8 inches deep on a 9-hour day, this engine requires:

- 50 Gallons gasoline.
- 4 Gallons gas engine oil.
- 3 Gallons black oil.
- 1 1/2 Gallons castor machine oil.
- 1 Pound hard oil.
- 1/2 Dry cell battery.

An engine man and a plow man are employed, and a third man is kept employed in hauling the gasoline, water, and other requirements for the plows. This figures out a good deal cheaper than the same work can be done by horses; in fact, about one-half. My experience has not lasted long enough to pass upon the life of this engine.

The caterpillar track of the engine has a surface on the ground of from 20 to 28 square feet and it is able to run over sand and wet places. The vibration is so slight that the engine ought to last for several years without a great expense for repairs. One advantage of the tractor over the horse is that when the plowing is hard, there are no sore shoulders and sympathy for the horse, and the plowing can be done to a greater depth. Unless the tractor reduces the number of horses to be maintained, it is of little advantage.

Geneseo, Kan. M. M. Sherman.

It isn't an act of charity to help those who won't try to help themselves.



It Frequently Is Possible To Use Tractors Very Efficiently In Road Work. This Scene Is At Minneola, Kan.

Binder Engines Are Needed

One Can Be Certain of Saving the Grain Crops If Power Is Available for the Harvest

KANSAS farmers need no longer lose a wheat crop because the ground is too soft for a binder. The modern way of harvesting is by the use of the binder engine. More than 500 engines were sold in Kansas for this purpose by the Cushman Motor company of Lincoln, Neb., last year. About 6,000 Cushman engines—4,973 to be exact—were sold last year in all states. The binder engine is of the 4-cycle type, and it develops 4 horsepower.

If a man wishes to buy an engine for ordinary farm work he might just as well have it arranged so it can be used on the binder, also. The Cushman engine can be taken off the binder after the harvest is over, and used for other farm work for the other 51 weeks in the year. A regular base for the engine is provided, and a truck may be purchased at a low cost.

Good Results.

Almost all the farmers in Kansas who have used binder engines report good results. They have done well even under unfavorable conditions. Oren Smith of Valley Center, for example, lost much of his wheat by reason of a flood. In speaking of his results last summer, he said:

"Our wheat was washed down, and water was standing on much of the ground where we harvested. The wheat was very heavy; it took about 5 pounds of twine an acre. The bull wheel of the binder would not turn most of the

ing down an increase in the number of binder engines in Kansas is that many men do not know that they may be used for other farm work. It is a very easy thing to take them off the binder and set them on the skids or truck.

This binder engine weighs less than 200 pounds—it is perfectly balanced and is easily attached to the binder by simple but effective brackets in an easy but substantial manner.

A binder engine is easy to attach and operate. When the harvest season is over it may be taken off and used for other work. Its use greatly increases the speed of the outfit in harvesting over firm ground, and makes it possible to run and to save grain on muddy fields that would otherwise be lost, or badly damaged. The rapidly increasing use of binder engines in Kansas shows that the farmers are coming to appreciate their value.

Breaking Up Boulders

Near almost every tight rock or big stone in a field you can find rusty pieces of plow shares, cultivator teeth or mowing machine guards which testify to the damage done by the rocks to farm tools and equipments. Every stone too big to lift on a wagon, whether it lies on the surface or under ground within reach of plows, ought to be broken up with high explosives. It takes only a few minutes and a few cents of expense with each stone to do this. Then you

right point, and this charged with the proper amount of the right kind of explosive. Such drilling can be done in a short time with good tools, if you know how to proceed with the work.

Blasting stones is not dangerous if you keep far enough away when you fire the charges. If you use fuse never cut it shorter than 3 feet, and 4 or 5 feet is better. Don't stand closer to a stone blast than 150 yards, or steps, and in running away it isn't a bad idea to take longer steps than usual. In blasting close to buildings, nail boards over the windows. In cities mats or nets of rope are used close to the blast to catch flying stones. It helps some to use brush to cover the stones to be blasted.

You can get complete instructions for doing the work from the makers of the high explosives best suited to the purposes. Ask for details about the mudding, snakeholding and blockholding methods, and for other special information. It is best not to try to blast before you get these directions, for the expert suggestions you will get will enable you to save time and expense in the work.

Denver Show Will Be Held

Preparations for the annual stock show week festivities in Denver January 18 to 23 are being hastened. The cattle show will not be held because of the danger of spreading foot and mouth disease. The horse show will be the feature of the week. Some of the best horses in the United States have been entered. The poultry exhibit will be the largest ever made by this department. Special attention will be given the agricultural exhibits. The baby contest which proved a feature of the show a year ago will be even more interesting this year. The Denver Press Club will give a "brand iron" dinner during the week. The National Cowboy Rangers' association and the Colorado Stock Growers' association also will meet in Denver during the show. The show, from a business standpoint will be almost as important as heretofore for there will be sales of both purebred and feeder cattle. The railroads are offering low rates to Denver.

The flockmaster, or owner, must be ever vigilant. He should know his flock so well that the very slightest indisposition will be detected at once.

Keep step with a horse when leading him,—his left and your left moving together. He can't step on you then.

Because you have good neighbors is no reason why you should impose on them.

"BUNCOMBE"

It Don't Always Pay to Be Skeptical.

When a newspaper writer and proof reader that works nights can feed himself out of dyspepsia, which most all that class suffer with, it is worth while to know the kind of food used.

This man says:

"Being a newspaper writer and proof reader, also a graduate in medicine as well, though not practicing, makes a combination that would produce a skeptic on the subject if anything would.

"Day after day I read the proof on the Grape-Nuts advertisements with the feeling that they were all 'buncombe.' All this time I was suffering from dyspepsia from the improper food I was eating at the restaurant.

"One day I saw a package of Grape-Nuts at the restaurant and tried some with cream. The food took my fancy at once. After a few lunches on it at midnight I noted an improvement in my feelings, and was able to work with less fatigue.

"I have used Grape-Nuts as a regular diet since then, and have improved greatly. The old dyspepsia and bad feelings that I thought were necessary adjuncts to night work disappeared, and I am able to do much more and better work with less effort than ever before.

"I was nearly ready to give up and seek health in some other walk in life but thanks to my change in diet I am now all right." "There's a Reason."

Name given by Postum Co., Battle Creek, Mich.

Look in pkgs. for the famous little book, "The Road to Wellville."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



A Binder Equipped With an Engine.

time, and over a great deal of the ground it left a ditch like a lister furrow. It would have been impossible to save this crop without the use of the engine."

F. D. Nettleton of Wakarusa had good results with his binder engine, also. He had 75 acres of wheat on very rich land last year, and a great deal of it became badly tangled. It was about shoulder high, so the straw was very heavy to handle. The work of his engine was the sensation of the neighborhood last summer. More than 50 farmers came to the field to watch the operation of the machine. Mr. Nettleton is especially well pleased with this machine; he said it developed a great deal more power than was needed.

Otto Ganz of Chapman cut wheat in the mud when his neighbors could not get into the field. He used only 15 gallons of gasoline in cutting 100 acres. This engine also is used with good success in running the generator of the home electric light plant.

Easy to Move.

"I think my binder engine is the best investment in the farm machinery line I ever made," said H. A. Mason of Gypsum. "I cut 195 acres of wheat this year, using the 4-horsepower engine on an 8-foot binder. I had no trouble at all with the engine."

Perhaps the main thing that is hold-

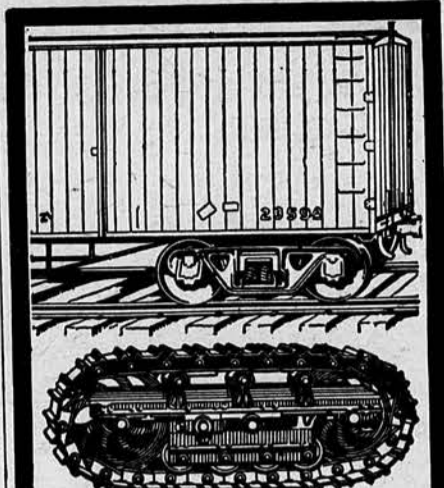
are relieved of the trouble of turning out, and lifting plows and machinery over the stones.

The quickest and probably the cheapest way of breaking up boulders is to "mudcap" them. All you need, to do this, is a supply of proper explosive, with caps and fuse, and some wet clay or sand. No tools are required. The whole thing can be done in 5 minutes, no matter how big the stone. The proper explosive to use depends entirely on the kind of stone. Sandstones and other soft or coarse-grained rocks split best under the influence of a high explosive that cracks and heaves rather than shatters. Very hard rocks are broken best by a 60 per cent explosive.

The following table gives the amount of explosive required to break up stones of different sizes by this quick method.

Diameter of stone	Sticks of explosive required
18 inches	2
2 feet	3
2 1/2 feet	4
3 feet	5
4 feet	7
5 feet	10

Extra large stones and those that are very hard can be broken at the least cost by drilling holes in them and putting the explosive in these holes. This method is called by professional blasters "blockholding." An 8 or 10 ton stone ought to have a hole an inch in diameter and 1 1/2 or 2 feet deep drilled at the



Rides Like The Car Wheels On Steel Rails

That's the plan of construction in the "Creeping Grip" tractor. It lays and carries its steel track. It rides smoothly, creeping over the soil with a firm grip. It loses no power in slippage—it never packs the soil—saves money in fuel bills because of the greater power delivered—at the draw bar. Here's the tractor that cuts the cost of plowing and gets crops in on time. The

"Creeping Grip" Tractor

can enter soft fields in early spring when other tractors must lie idle waiting for wet spots to dry. By comparison the creepers are lighter on the soil than an empty wagon. They climb and oscillate over obstructions, carrying the machine on a center axle. Two points of contact rest on the ground, thus avoiding jolts on the machine. The frame rides on 3 points of suspension, which eliminates binding on bearings—upkeep cost is reduced to a minimum.

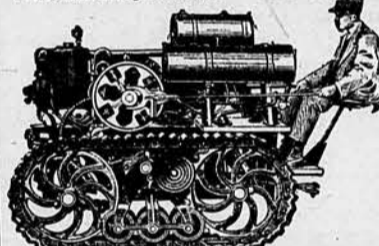
Write for Catalog

Prices \$950 to \$4,250

Creeping Grip tractors have been tested and are now in use in all parts of the South and West. Let us tell you how you can save money with one on your farm.

SIZES: { 76 Brake—55 Tractive H. P.
60 Brake—45 Tractive H. P.
40 Brake—30 Tractive H. P.
30 Brake—20 Tractive H. P.
15 Brake—10 Tractive H. P.

BULLOCK TRACTOR CO.
1820 Diversey Parkway Chicago, Ill.



Reeves Engines

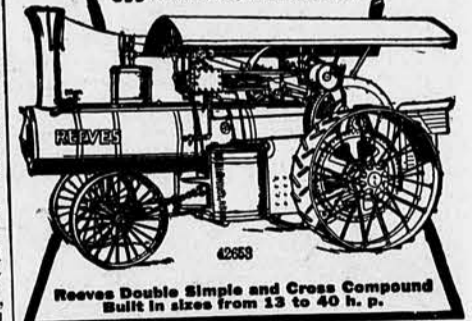
Start From Any Point

Built with two cylinders with pistons connected to same crank shaft, at different angles—overcoming "dead center" troubles. Made with heavy connecting rods—crossheads specially designed for strength, ease of adjustment and long wear. Flange steel plate boilers of 60,000 lbs. tensile strength. Greatest valve construction ever put on a traction engine. Extra strong patented drive wheel.

All exclusive features that make Reeves Engine the engine that gives the greatest measure of profit and the longest service.

Write Today for FREE Book giving scores of more reasons why you should prefer Reeves Engines. Drop us a postal for it today.

Emerson-Brantingham Implement Co. (Inc.)
399 W. Iron St., Rockford, Ill.



Reeves Double Simple and Cross Compound Built in sizes from 13 to 40 h. p.

Old Reliable Four-Burr Mills

No Gearing No Friction Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 3-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the Famous Iowa No. 2 mill for \$12.50 Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

BOVEE GRINDER AND FURNACE WORKS
88-Sta St., Waterloo, Iowa.

The New Governor on Duty

Economy With Common Sense; Simple, Direct Business Methods, Just Laws, Ideals Urged In Arthur Capper's Inaugural Address

IN the presence of a distinguished assemblage including friends who had known him from boyhood, with the brightest of winter sunshine streaming through the windows of Representative Hall, Arthur Capper became governor of Kansas, his native state, at noon last Monday. The chief justice, William A. Johnston, administered the oath of office. The inaugural address, delivered immediately before he assumed office, was very warmly received and frequently interrupted by applause. Governor Capper said:

Fellow Citizens: In compliance with the will of the sovereign people of Kansas; in accordance with the constitution of the state, I have appeared here today to take the oath of office as your chief state executive, and with deep and solemn realization of the responsibilities imposed, to pledge and promise you before God, the Almighty Ruler, to consecrate to the people of my native state all my energies and my utmost ability. God help me to be faithful to the trust given me this day.

To my associates in every department of the state administration, I offer congratulations upon the opportunity we together have to serve the people of Kansas; I promise them my whole-hearted cooperation in their work. To my predecessor in the office of Governor, who has given this state his best service for the last two years, I join with all Kansas in wishing happiness and success in whatever he undertakes.

NO PET MEASURES.

My friends, I am to be your executive for the next two years—the first governor chosen by the suffrage of both the men and the women of the state. I shall earnestly endeavor to be the faithful and conscientious steward of the state which has honored me; to be in every official act just and fair; to avoid favoritism and partisanship, and to serve faithfully the whole state. I have no pet schemes nor fads to introduce; no political panacea to propose; no revolutionary methods to try. I shall simply endeavor to do my duty thoroughly and to administer the affairs of the state in a business-like manner. I shall have need of your patience and forbearance. Above all, I ask the broadminded, patriotic men and women of Kansas of all political parties, to co-operate with me in working out the many problems with which our state government is concerned. Your responsibility for good government does not cease when you cast your ballot; no governor alone can accomplish what you in your hearts want done for Kansas. He must have back of him the sympathetic support and the hearty, active cooperation of all good people. We are realizing in Kansas that there is much to do. I invite all who would speed the progress of good government, of decency and justice, and peace and brotherhood among men, to join hands with me in combating the social and political evils and the economic wrongs from which we suffer.

LOOKING FOR BETTER WAYS.

We live in a day of readjustments. This second decade of the Twentieth Century is a time of unrest, of change. Mankind is examining the old ways and is asking with a new insistence if there be better ways. Science and invention, by a series of marvelous and bewildering discoveries, in a single generation, have completely revolutionized our material life and the business methods of the civilized world. New utilities have changed our methods of work and our manner of living. And along with these wonderful inventions, has come an enlarged and, I think, wholesome view of the function of government, which brings with it the imperative necessity of a revision and rearrangement of much of our governmental systems. The methods of administration of our great railway systems and our big industrial corporations have changed mightily in the last quarter century. Even the small tradesman with his deepened appreciation of system has radically changed his business methods in a decade. But in the business of government—local, state and national—we have been slow to adopt the scientific methods which are working out so satisfactorily in private business. Until quite recently the term efficiency in this specialized significance has hardly been thought of in connection with public affairs. Petty graft, favoritism, appointments made solely for partisan effect and all the waste and corruption of the abominable spoils system have, too often, been taken as a matter of course.

As an inevitable consequence the burdens of taxation have increased at an alarming rate without commensurate benefit to the public. In Kansas the total expense of government, state and local, in ten years has risen from \$16,000,000 annually to \$30,000,000, far out of proportion to growth in population. We cannot charge that this increase has been entirely uncalled for; much of the money has been wisely expended in building up institutions which are a credit to Kansas; but under our antiquated, inordinate, cumbersome system unsuited to modern business conditions, we invite graft and encourage carelessness, and in the end have a government that is wasteful, expensive, and inadequate to our growing needs.

MUST HAVE BUSINESS METHODS.

The day has come when we people of Kansas must give most serious attention to the urgent necessity of many changes in the business methods of our state and county and municipal government. I do not believe that the state government

should be made the experimental ground for fads; for sudden, sweeping changes, nor for wild or revolutionary departures from known or worked-out methods; we cannot afford to try out dreams at the people's expense. But neither can we afford to wrap ourselves in the comfortable, easy mantle of precedent and close our eyes to the advantages arising from the adopting of modern methods of conducting business, from more economical means, from shorter cuts, from increased efficiency and from a greater concentration of responsibility.

Kansas must adopt, in the administration of public affairs, a modern, scientific, business system which will eliminate what is useless and provide for more direct, more economical and more efficient methods. It is not enough to elect honest men, or well-meaning men, or capable men to positions of trust and responsibility if we tie their hands with useless red tape and enforce upon them cumbersome, expensive and wasteful methods. My predecessors in office have had to meet this very real difficulty, as I shall, and I honor them for what they have accomplished in spite of these obstacles.

REQUIRES SCIENTIFIC STUDY.

This needed reorganization is not the work of a day nor of one administration. It will require constant study of the most searching, scientific nature, and statesmanship of the most practical order, prompted and backed by an honest determination to give the people of Kansas the most efficient system of government that can be devised for them. Other states of the Union are grappling with this big problem and are studying, investigating and testing. Kansas must step into line and begin at once a careful investigation of a more scientific business system which will promote efficiency and economy—from the state house down to the township trustee. This I consider one of the most pressing problems of our immediate future, and I am strong in the hope that advanced steps toward its solution will be taken during this administration.

Kansas is still a young state, but we believe it to be a state destined under the providence of the Almighty to great things. It behooves us who have been so blessed to keep ever in mind, now while we are still in the formative period of our material and social development, the future of the state and its people. We must build wisely that we may hand down to posterity a commonwealth noble in structure and form, suited as well as we can foresee to the needs of a coming generation. Timidity, indifference, niggardliness are not in keeping with the Kansas spirit. From the dark and trying days of the state's first settlement, the Kansas people have shown a willingness to dare, to sacrifice, even to die for the common good.

And we have many tasks before us; material tasks which need money for their accomplishment. The standard of our rural schools must be raised and our state educational institutions be kept on a par with the best of any state in the Union. We must improve, as rapidly as possible, our public roads and highways. The State's latent resources must be developed, some of them perhaps at public expense. Several of our penal and charitable institutions demand immediate improvement and increased facilities.

NEED TO WATCH EXPENDITURES.

We cannot ignore all these insistent demands. Kansas could use profitably ten times the amount of money that our tax levy provides. But there is a time for all things, and I do not believe that the people of Kansas are in a mood to sanction large expenditures at this time or heavy investments for the future, while the world is going through one of the greatest crises in its history. Business has been demoralized to an extent that we in prosperous, sun-warmed, God-favored Kansas do not realize. We, in Kansas, have felt only the outermost effects of the terrible disaster which is convulsing civilization; we do not appreciate the suffering, the want and woe which have settled like a pall upon the greater part of the human race.

I am not pessimistic; I do not think America is to have a protracted period of business depression, but I believe this is the year of all years to use the pruning knife on appropriations; to eliminate every useless public position; to see to it that men who are elected or appointed to perform certain duties, perform them themselves instead of delegating them to assistants; to adopt a policy of rigid economy in public affairs, just as the business man does, just as the housewife does, just as the farmer does when circumstances compel him to economize.

MAKE SIMPLE AND JUST LAWS.

In this necessary policy of economy, I hope we may see the desirability of restraint in creating needless legislation: We make too many laws. Our need is not more laws, but laws made so plain, so simple, so direct and so just, that the humblest citizen can know them and understand them and respect them and obey them. There are in Kansas, as elsewhere, evils to correct, abuses to reform, new conditions to meet. Theoretically, our representatives meet in biennial session to consider what changes are necessary to our state statutes, that our people may deal justly with one another; to make the rule of public conduct and private transaction clearer and plainer; to correct injustice between man and man; to protect the public health and morals—these ostensibly are the objects of the deliberations of our legislative bodies. A certain amount of legislation is necessary, but in practice how often do we find a personal motive or a private interest prompting the introducing of a bill; how often do we find members voting with small regard to the intent or effect of a

measure; with the result that hastily-drawn, ill-considered, ill-advised measures are enacted into laws, cumber our statute books, breed litigation, and work hardships to a patient and long-suffering people. I hope the Kansas legislature of 1915 will give most careful consideration to the need, the intent and the form of every measure which comes before it, that our people may have constructive legislation and be spared a flood of unnecessary and confusing laws. Let our effort be toward speedier and cheaper administration of justice; the utmost simplicity of form and language; straightforwardness of intent and even-handed justice for every citizen of Kansas, no matter what his condition, color or creed.

Kansas has been greatly blessed in material things. But these are not our greatest glory. The pioneers who transformed this wilderness for us were hardy men and women, strong of heart and great of soul. They laid the foundation for a great state. It was Kansas that led the way in the great struggle for human freedom in the '60's and the Kansas conscience, during the last quarter of a century, has done much in the nation to elevate the moral and commercial standards of the people.

KANSAS HAS CONSTRUCTIVE LAWS

Kansas has a shining record of accomplishment in the field of successful, constructive legislation. Its prohibitory law, equal suffrage law, its "blue sky" law, its bank guaranty law, its primary election law, its anti-pass law, its pure-food law and its state text-book law, show the progressive, forward-looking spirit of the Kansas people.

There has been a genuine effort in Kansas to incorporate into our body politic, fundamental, moral ideas; we have tried to base our laws upon eternal truths which tend to righteousness. Kansas comes nearer giving every man, woman and child within its borders an absolutely square deal and equal chance in every department of life than any other commonwealth in this Union. And this has been true because our Kansas citizenship is made up of men and women dominated by Christian ideals of right living, high thinking, decency, honesty, sobriety, industry and the noblest things of life. Our material prosperity, our high standards of public morals, our personal well-being are largely due to the fact that for more than thirty years the open saloon has been an outlaw in this state. Our physical development has not been stunted, and our moral sense has not been blunted by the degenerating influences of drink. And we may rejoice that the Kansas election of 1914 forever settles the saloon question in this state. That vote emphasizes as never before that prohibition is a distinctive political policy of Kansas. There can be no turning backward from the course which has brought such manifold blessings to our people. We may confidently expect the liquor evil, like murder, arson and highway robbery, to show itself at times, but I promise you this administration will not for a single moment relax the most searching, stringent, vigorous and continuous enforcement of the prohibitory law. There cannot be any temporizing with this thing, nor should there be any compromise with its partner in crime, the redlight district.

TO LEAD IN NATIONAL PROHIBITION

The record Kansas has made in proving that prohibition does prohibit; the blessings which have followed its enactment as a part of our fundamental law, makes it incumbent upon us as a duty to the nation as well as a policy of self-protection, to take the lead in an active propaganda for National Prohibition. We must make the happy conditions we have achieved known to the world. To this extent we are emphatically "our brother's keeper." We cannot evade the responsibility. It is our duty to say to the people of the United States: "The public health, the public peace, the public morals, and the public welfare demand the complete eradication of the saloon and the absolute prohibition of its wretched and destructive traffic."

Many of us who live in Kansas and have learned to take prohibition as a matter of course, do not fully appreciate the intensity and the proportions of the struggle now waging in every part of the United States for National Prohibition. The victory is coming just as surely as the American people retain their sanity and judgment. But the battle will not be won without herculean effort. From this time forward until the question is settled and settled rightly, National Prohibition will be one of the big issues—possibly the chief issue—in every national political campaign; and Kansas must lead the battle.

PLEDGES VIGOROUS CHAMPIONSHIP.

We have had nation-wide prohibition in all the great American industries for nearly ten years. National Prohibition itself should no longer be delayed. It will not be long in coming if Kansas people give the movement their active leadership and their vigorous championship. I here pledge you that my utmost endeavor shall be to aid this movement, to use all the influence I possess, as a citizen, as a newspaper man, and as a public official, to advance this great cause.

I rejoice with the people of Kansas that the women of our State have been admitted to the full rights of citizenship. By the large vote they cast at the recent election, they have shown a ready willingness to assume their new responsibilities and have made certain that we may expect a higher standard in public affairs and especially in public morals as a result. The influence of Kansas should be exerted in every possible way to bring about equal suffrage in the nation.

Try as we may, we move slowly toward the ultimate goal of mankind—the brotherhood of man. In the two years we are now entering upon, may we people of Kansas do our part in that slow but sure advance in human progress; for loftier ideals; for a wider and deeper justice; for a quickened sense of public honor and public duty; toward making our beloved state a little cleaner, a little more decent, happier, and more God-like.



Fit Your Hills, Hollows or Levels Pigtight With APEX Fence

THE swinging joint makes it flexible — self-adjusting to the ground. No bagging or sagging — doubly strong at every joint — strains and shocks evenly distributed — rigid, reinforced construction keeps the fence in shape. Made of open hearth steel wire — heavily galvanized. Write for booklet.

No Holes to Dig When You Use Apex Steel Drive Posts

Just think what this saves you! Drive the posts without leaving your wagon. Save on hauling and handling — save 8 to 10 cents a post in setting. Drive Apex Posts in any soil, gravel or soft shale. Made of elastic carbon angle steel — tough and strong — can't be injured. Last for generations — do not bend, break, rot or burn.

Write for the "Apex Way" booklet and see how you can save a lot of work and money and have better fencing by fencing your farm the "Apex Way."

Janesville Barb Wire Co.
313 S. Franklin Street, Janesville, Wis.



APEX FENCE

Long Life Fence

Square Deal Fence is made from wire we draw in our own mills, galvanized heavily to prevent rust, built for long life from start to finish. Stay wires one-piece, tied to strand wires with the lock you see below.

SQUARE DEAL FENCE

Always stands trim and tight is easier to put up — costs less and lasts longest.

Landowners should write for our free fence book, and receive Roy's 110-page Calculator — the greatest time saving book ever published. Answers any business problem likely to occur. All free. Write for it today.

Raytown Steel & Wire Co. 5234 Industrial Bld., Kansas City, Mo.

WE PAY THE FREIGHT

Brown Fence

Strongest, most durable made. Basic open hearth steel. **DOUBLE GALVANIZED.** Compare our quality and prices with others.

Bargain Prices — Direct From Factory
150 Styles — 13 Cents Per Rod Up

BOOK FREE

Write for the book THE BROWN FENCE & WIRE CO. CLEVELAND, OHIO

FARM FENCE

111 CENTS A ROD for a 36-inch high fence. 17¢ a rod for 42-in. stock fence; 25¢ a rod for 48-in. heavy poultry fence. All Open Hearth Galvanized wire. Sold direct to the farmer on 30 days FREE TRIAL. Barbed Wire, 12 rod spool, \$1.48. Catalog free. **INTERLOCKING FENCE CO.** Box 25 — MORTON, ILLS.

COILED SPRING FENCE

EVERY READER OF THIS PAPER should send for our Free Catalog of Farm, Poultry and Lawn Fence. Many big values are offered. Bold direct to the farmer saving you the Dealer's Profit.

14 CENTS A ROD UP.
Lawn Fence 66, a foot Barbed Wire \$1.48 per 50-rod spool. Coiled Spring Fence Co. Box 258 Winchester, Indiana.

Specify The Motor When You Buy The Tractor

The all important feature of a tractor is the motor. It's the very life of it. Without the motor, all the rest of the tractor is just so much iron or steel. Your one biggest consideration, therefore, when buying a tractor is to get the tractor that has the right motor. Twenty-six tractor manufacturers entrust their motor building to us—because they know we do it better. They might build a cheaper motor themselves, but they want the best that can be had and that's why the expert engineering forces of twenty-six tractor manufacturing concerns, after exhaustive tests, have unanimously adopted the

WAUKESHA LONG STROKE TRACTOR MOTOR

DESIGNED SPECIFICALLY FOR TRACTOR REQUIREMENTS

If you're going to buy a tractor, demand one with a Waukesha Motor

THESE TRACTOR MANUFACTURERS USE WAUKESHA MOTORS:

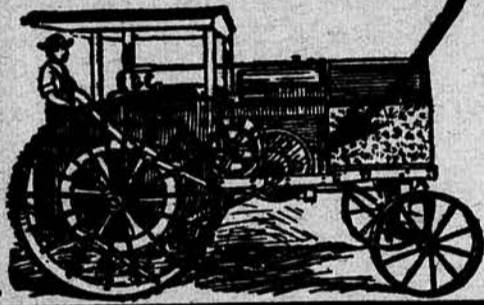
Allis-Chalmers Co.....Milwaukee, Wis.	Jellicott Oil Tractor Co.....Jellicott, Ill.
American Gas Engine Co., Kansas City, Mo.	Kraus Tractor Co.....Minneapolis, Minn.
Anderson Tractor Co.....Minneapolis, Minn.	Killian Strait Co.....Appleton, Wis.
Amer. Three Way Prim Co., La Porte, Ind.	Lawler Tractor Co.....St. Marys, Ohio
Berry Tractor Co.....Muscatine, Iowa	McKinney Tractor Cult. Co., St. Louis, Mo.
Chase Tractor Co.....Syracuse, New York	Morton Truck & Tractor Co., Harrisburg, Pa.
Deering Motor Imp. Co., Cedar Rapids, Ia.	Nevada Truck & Tractor Co., Nevada, Ia.
Ellis & Co.....De Saut, S. Dakota	Nelson Farm Mach. Co., Minneapolis, Minn.
Emerson-Birmingham Co., Rockford, Ill.	Ohio Tractor Co.....Marion, Ohio
Gray Tractor Co.....Minneapolis, Minn.	M. Humely Co.....La Porte, Ind.
Wm. Galloway Co.....Waterloo, Iowa	Sizite Tractor Co.....Minneapolis, Minn.
Welder Mfg. Co.....Carroll, Iowa	Swaney Tractor Co.....Carroll, Iowa
Wm. Tractor Co.....Hume, Ill.	Welf & Co.....La Porte, Ind.

And in addition to the above, Waukesha Long Stroke Motors are being used for Military Purposes by several leading European Nations—more evidence of the quality of Waukesha Motors.

GET THIS FREE BULLETIN BEFORE YOU BUY A TRACTOR

No matter what kind of a tractor you expect to buy, you ought to send for this free bulletin and get first-hand information about tractor motors. Send for it now. It costs you nothing and will guide you aright in your tractor purchase. It may be the means of saving you many dollars and much trouble and worry. Drop us a postal now. Just ask for Bulletin B.

WAUKESHA MOTOR CO.
207 Factory St., Waukesha, Wis.



Oil Gas Engines Carefully

Proper Lubrication Is Essential If the Engine Is to Wear Well and Produce Power at a Low Cost

WITHOUT a doubt the greatest enemy of your gas engine is lack of lubrication. More harm may result from the lack of it than the average operator may imagine. A gas engine may wear more in five minutes running without lubrication than it would wear in five days properly lubricated. Let us see just why.

The lubrication of any two surfaces consists in forming and maintaining between these two surfaces an extremely thin film of substance, which has not only a very low coefficient of friction but also sufficient "body" and cohesion to remain intact as a continuous surface despite considerable pressure, says Farm Engineering. Obviously, if the two moving surfaces do not touch there should be no wear on either. That the parts do wear may be explained by the fact that when at rest the lubricating film is squeezed out and when starting the parts in motion a little time is necessary for the lubricating film to form and spread.

Lack Of Lubrication.

Consider first the valve operating mechanism. Ordinarily the only lubrication these parts get is supplied by a common squirt oil can and is at the best only intermittent. The entire absence of oil on these parts means quick and excessive wear which in turn brings about considerable lost motion. The seriousness of lost motion in the valve

ried with it or must be transferred from a stationary cup to it while in motion. (This applies to those engines with an open crank not adaptable to splash lubrication.) In addition, the crank bearing probably has more extreme pressures and certainly has more variable and reversible pressures than any other bearing on the engine. A little looseness at this point due to wear causes a severe knock on account of these reversals. Such a knock causes severe strains in the crank shaft and in the connecting rod.

Heating in this bearing will very quickly occur if lubrication is not supplied, and wear under such conditions is indeed excessive. One result of a loose crank box is the crystallization of the bolts holding the cap on the bearing. The failure of these bolts may generally be attributed to looseness and pounding in the bearing and this to lack of lubrication. A wreck resulting from the failure of these bolts generally means the replacement of the connecting rod, the piston, quite often the cylinder, and sometimes the crank shaft or other parts. Lubrication of the bearings, therefore, is very important.

On account of temperature conditions the piston and cylinder of a gas engine are perhaps the most difficult to lubricate. In the first place, the difference in the diameter of the piston and cylinder is only a few thousandths of an inch. Any sudden tendency of the piston to expand greatly decreases this clearance and there is imminent danger of the two parts coming into actual contact. An oil with sufficient body at high temperature to withstand such adverse conditions is necessary. The ability of the piston and rings to be leak-proof depends on the roundness and the closeness of the fit in the cylinder. Since the pressures between the piston and cylinder come only on two sides, be the engine either vertical or horizontal, wear destroys the roundness and at the same time the closeness of the fit. Lack of lubrication greatly hastens such wear, in fact, may cause scoring or cutting.

During the past twenty-five years we have spent nearly 2 billion dollars on our navy. For the current year the department asks for 135 million dollars in a time of absolute peace. We have more than fifty fourteen-inch guns on our battleships, grim monsters of destruction, costing \$75,000 apiece. During the past three decades our army, navy, and pension departments have cost us more than 10 billion dollars. On our army and navy alone we are using a larger per cent of our income than any nation except Germany.

Kansas Produced Much Sugar

About 13 million pounds of sugar was made in the factory of the Garden City Sugar and Land company in 1914.

The factory received 50,000 tons of beets grown in Finney, Kearny, Hamilton, Pawnee, Lyon, Chase and Greenwood counties, which produced 130,000 bags of 100 pounds each of a fine quality of granulated sugar. This was almost twice as much sugar as was produced in 1913. The adverse growing season of 1913 cut the production for the year to 77,000 bags.

The average yield of the beet fields was 12 tons to the acre, but many fields produced from 15 to 20 tons an acre. The factory paid \$5.50 a ton, which places the market value of the sugar beet crop at \$275,000. To this is added the value of the beet tops left in the field, for stock food.

The beet pulp, a by-product left after the sugar is extracted from the beet root, when dried made 5 million pounds of nutritious stock food. This is shipped to eastern states, where it is in great demand, especially by dairymen, to increase milk production.

Owing to the removal of the entire protective tariff on foreign-grown sugar by 1916, the company had planned to close the sugar factory after this year, but the war in Europe has given the beet sugar industry a lease on life. The sugar company owns a large tract and in anticipation of going out of the sugar business has gone into diversified farming. The company raised 100,000 bushels of wheat and oats and 10,000 tons of alfalfa in 1914. The company is feeding 1,000 steers, 1,800 cows and calves, two large dairy herds and 1,000 hogs. If the sugar factory is forced to close the company will engage wholly in farming. As long as the factory is able to continue making sugar a system of crop rotation and stock raising with sugar beets as the principal crop will be carried on.

operating parts is not always realized. A small amount of play materially changes the valve timing upon which depends to a considerable degree the power and economy of the engine. Noise also results.

An improperly lubricated governor loses its sensitiveness on account of internal friction. Its power is used in overcoming this friction rather than in operating the mechanism which actually controls the speed of the engine. With the sensitiveness destroyed by friction, "racing" or extremely variable speed will result. An unlubricated governor also wears and in time considerable lost motion will be in evidence.

There is one minor part of some gas engines, which should probably not receive any lubrication as the term is commonly understood to mean the application of oil. This is the movable electrode of the make and break ignitor. If this part is oiled, sticky carbon is liable to result, eventually causing sticking of the electrode. You would better let this part run dry and replace it when worn or use dry graphite as a lubricant.

The main bearings if unlubricated, will quickly run hot or melt if made of babbitt metal. Large fly-wheels and a heavy crank shaft cause high pressures in the main bearings. Worn main bearings allow the shaft to jump and spring at every impulse. Eventually crystallization of the steel in the shaft will occur and cause breakage. One of the most elusive causes of gear breakage known has been traced to loose main bearings. Cases have been known where this looseness was so slight as to be difficult of detection, yet there would be enough jump in the shaft to jamb the pinion on the crank shaft over against the cam gear and cause breakage of the latter.

Lubricate the Crank.

The most difficult bearing to lubricate is the crank. It is always in motion. Either a supply of oil must be car-

Cushman "Four" Farmers Handy Truck



This is the light-weight, quick-action 4 H. P. Truck Outfit that has proved so handy for farm work. A boy can pull it around from job to job, yet it easily handles all work up to 4 or 4½ H. P. Pump circulation to water tank on front of truck prevents overheating, even on all-day run.

Cushman 4-Cycle Gasoline Engines are very quiet and steady because of Thrustle Governor and perfect balance. No jerky, explosive hit-and-miss running, but easily and quietly like high grade automobile engines. Equipped with Schebler Carburetor, having Special Economy Tube to save gasoline. Handy Friction Clutch Pulley. May be run at any speed—speed changed while running.

Cushman Light Weight Engines For All Farm Work—4 to 20 H. P.

Are the most useful engines made. Built to run without trouble and to do things no other engine will do. Very light in weight—easy to move around from job to job. 4 H. P. weighs only 190 lbs.; 8 H. P. 320 lbs. Compare these weights with those of old style engines.

"I thought your agent was joking when he told me your little 190 lb. engine would pull 4 H. P., but I took it home and hitched it to an 8-inch International feed grinder and filled it up with ear corn. I can do everything with it that I could with an engine that weighed 1,000 lbs., and do it better and with a lot less noise. Also run a 32-foot corn elevator."
—Dave Linton, Ransom, Illinois.

The Cushman is not a cheap engine, but it is cheap in the long run. Ask for our free Engine Book.

Cushman Motor Works
814 North 21st Street, Lincoln, Nebraska



2 Cylinder Eight For Heavier Work

SAVE HARNESS MONEY

Write today for big free catalog of harness and saddles direct from maker at wholesale prices. We prepay freight charges. H. & M. HARNESS SHOP, Dept. H., St. Joseph, Mo.



Have the Engine Base Solid

Plans and Plain Directions You Ought to Study

BY C. D. YETTER
Kansas Seed Wheat Club

THE rapidly growing demand for internal combustion engines, stationary and tractor, for farm use, emphasizes the value and economy of this modern source of power. A great deal is heard of late about conservation, and surely the many economies effected, and wastes eliminated justify the claims of makers and users alike, that they are one of the most economical investments a farmer can make.

Pages might be written telling of the manifold needs for economical farm power for grinding feed, sawing wood, pumping water, running a dynamo for electric light, washing machine, grindstone or cream separator.

In selecting an engine the work to be done must have first consideration, bearing in mind that internal combustion engines will not work satisfactorily with an overload, and it is always better to allow something for future needs. The difference in expense of operation for the larger engine is very slight, so it is better to get as large an engine as you can afford at the start. In setting a stationary engine, the length of life and freedom from engine troubles will be determined largely by the care exercised in all the details of installation.

A good plan for a concrete base, and economical in the use of cement, is to

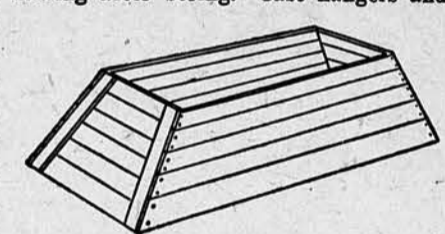
spark coil should be placed in an absolutely dry spot, as free from dust as possible. Where a tank is used for water cooling a short piece of hose should be used for a connection on both intake and return pipes to allow for vibration, so that threads will not work loose and leak. Use white lead on water connections but not on gasoline pipes, as common laundry soap is much better for oil pipe joints. A drain cock must be provided at lowest point in water circulation. A water cooled engine invariably should be drained as soon as stopped in cold weather.

It is better if possible to have a strongly braced engine house to carry the line shaft, one end of which should extend through the side of building for outside connections. Before fastening pillow blocks or hangers of line shaft permanently in order that drive belt may run true, it should be squared with the engine.

This can be done by placing driven pulley on line shaft and drawing a chalk line across drive pulley on engine and driven pulley on shaft, and shift the boxings slightly until the chalk line exactly touches both edges of both pulleys. Your shaft and engine are then square with each other and your belt will run true.

If the engine pulley does not have a clutch it is better to have a tight and loose pulley on your line shaft so your belt can be slipped to the idler pulley for easy starting or "cranking" engine. This provision will obviate much back-breaking effort. Shafting usually is made a thirty-second of an inch under-size and pulleys are often bored a sixteenth oversize for the greater convenience in assembling. Care should be taken in ordering this class of equipment to specify exactly what is needed.

Hard maple blocks have proved quite satisfactory for boxings for line shafts if carefully bored. They can be slipped on the shaft before raising to position, or can be made as a divided boxing by sawing after boring. Cast hangers and



The Base.

pillow blocks can be ordered in an endless variety to suit any requirement.

By the exercise of care and a little native ingenuity an installation can be made that will be a source of delight to the boys and a great labor and time saver for the older folks.

Are Apple Growers Asleep?

The apple crop produced last fall was above normal in most sections, but prices have not been lowered to consumers. We are paying 40 cents a peck, or \$1.50 a bushel, in this town for Ben Davis apples, and much higher prices for better quality fruit. Why don't some of the producers who are having such a difficult time in selling their fruit advertise? It would be easy to work up a good barrel or box trade direct to the consumer, and eliminate the middlemen.

Junction City, Kan. W. S. R.

Concerning the Alfalfa Seed

I have leased my farm in Kansas, and the tenant wishes to sow some clover and alfalfa. Who should buy the seed?

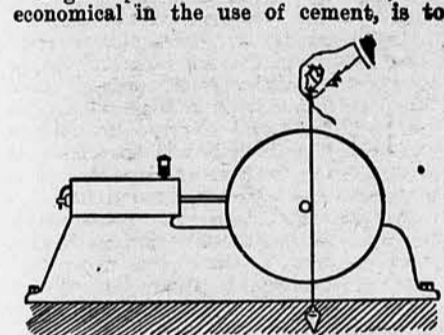
MRS. ELLA MENDELL.

The owner should buy the seed of leguminous crops in a case of this kind. A fair division is for the owner to supply the seed and the tenant do the work. The tenant should be required to prepare the ground properly, of course.

You'll save time by replacing that broken latch on the gate with a new one.



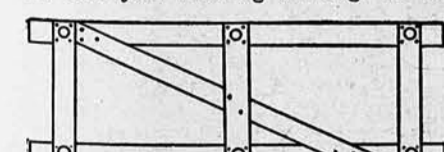
An Anchor Bolt.



Be Sure To Have It Level.

build a form in an oblong, tapering toward the top, of the height wanted, like a pyramid with the top cut off. Then make a template or frame with holes corresponding to the holes on the base of the engine measured carefully between centers. Anchor bolts should be provided with plenty of thread to allow for leveling engine base. The form should be set square with the shafting, and the template, with the anchor bolts thrust through the holes placed over the top of the form and the concrete poured in. The top of the foundation should be carefully trowelled down as nearly level as possible. It will be noticed that this form can be lifted off after the cement has set without taking it apart, or damaging the form or concrete. It is also convenient as no attention need be paid in digging the foundation as to the shape of the sides, as the dirt can be thrown back after the foundation is completed.

In setting the engine on the foundation, care should be taken to set it exactly level, as this has an important bearing on the wearing of boxings, and long life to the engine as well as to the accurate running of belting. A spirit level laid across the top of the fly wheels or a plumb line dropped at the side just touching the edge of the



The Template or Frame.

fly wheel at top and bottom, will indicate whether the engine is set level. Pieces of tin can be slipped under the base if one side is a little low, when anchor bolts are drawn tight.

If pump gasoline feed is part of the engine equipment, as is generally the case with the larger makes, special care should be exercised in making all connections in the feed pipe between supply tank and engine, as a very small leak in this pipe will cause endless trouble. Pipe that is rusted or dirty inside should not be used for this purpose. The battery or dry cells and

Studebaker

WAGONS BUGGIES HARNESS



A TRUE STORY ABOUT A STUDEBAKER

Do you remember the Studebaker Wagon I bought from you in November, 1877?

I haul ore and freight with it over the mountains and use it for a hay wagon sometimes.

The tires have never been reset and it has never had any repairs to amount to anything and it has never been under shelter.

It is a good old wagon yet and capable of being used for many years to come.

Ray McLaughlin,
Hayman, Col.

36 year old Studebaker hauling ore over mountains

THINK what this sturdy wagon, bought in 1877, has earned for its owner.

—and think how very little he has spent on it for repairs. Even the tires have not had to be set.

—and it has never been under shelter,

What you can expect from a Studebaker

A remarkable story. But no more than is expected of a Studebaker.

Air dried wood, tested iron and steel, good paint and varnish and skilled workmanship are bound to give satisfaction—and lasting results.

That's why it pays to buy a Studebaker.

It is true you may be offered a wagon represented to be "just as good" and costing less. But don't be imposed upon. A wagon is as good as its life is long—and Studebaker wagons are cheapest in the end.

What you want is a wagon that will last a lifetime, run easily and not cost you continual small sums for repairs.

And that is what you get when you buy a Studebaker. Sixty-three years of wagon building integrity insure you against the mistakes of the manufacturer who makes farm wagons to sell cheap.

Remember a Studebaker is sold at the lowest price for which it is possible to make a trustworthy wagon.

—and the same is true of Studebaker Harness and Buggies.

STUDEBAKER, South Bend, Ind.

NEW YORK CHICAGO DALLAS KANSAS CITY DENVER
MINNEAPOLIS SALT LAKE CITY SAN FRANCISCO PORTLAND, ORE.

Studebakers last a lifetime

This Big Book Crammed Full of Tractor Farming Facts FREE

THIS book explains just the kind of power that is cheapest and best for every kind of farm work. It shows how a tractor costs much less to keep than the extra horses you now have to help out on the heavy work. It explains how a tractor will enable you to raise bigger crops. It tells why a tractor will save you hard work. And it backs up these facts with reports from men who are already doing it.

There are more Avery Tractors and Plows in successful operation than any other make.



AVERY CO., 1003 Iowa St., Peoria, Ill.

AVERY

"One Man" Outfits. 5 Sizes. Fit Any Farm



Do Your Own Mending

WITH A SET OF THE "ALWAYS READY" COBBLER'S TOOLS

This handy shoe repair outfit was made especially for home use. With the aid of these tools you can easily do any kind of shoe repairing at a great saving of time and expense. The outfit comes securely packed in a box and consists of the following: Iron stand for lasts; one each 9 in., 7 1/2 inch, 5 1/2 inch lasts; shoe hammer; shoe knife; peg awl; sewing awl; stabbing awl; one package of heel nails; one package of clinch nails; and full directions. A most complete and serviceable outfit which will always give satisfaction.

OUR OFFER: This cobbler's outfit may be had free all mailing charges prepaid by sending a one-year subscription to Mail and Breeze at \$1.00 and 25 cents to help pay packing and mailing charges—\$1.25 in all. Either new or renewal subscriptions will be accepted. Send in your subscription and remittance at once to FARMERS MAIL AND BREEZE Dept. C. O. 10. Topeka, Kansas.

TY COBB Famous Ball Player, says:

"Tuxedo is a good, pure, mild tobacco and makes a wonderfully pleasant pipe-smoker."

Ty Cobb



The World's Greatest Ball Player Smokes the World's Best Tobacco

There isn't a cross-roads village in the entire country that doesn't know and respect the name of Ty Cobb. This man has aroused the admiration of an entire sport-loving nation by his wonderful mental and physical alertness in the cleverest outdoor game man has yet devised. Ty Cobb has the two qualities most highly prized by Americans—Brains and Speed. He leads his league in batting; he is the champion base-runner; and all the time his wits and muscles work in perfect co-ordination.

Tuxedo
The Perfect Tobacco for Pipe and Cigarette

Tuxedo has made thousands of men happy, temperate and comfortable converts to the pipe, because it has made pipe-smoking not only possible but pleasant to them.

There are plenty of imitators of Tuxedo, singing out loud all about their "no-bite" tobacco. But just remember this—Tuxedo was born in 1904. Tuxedo is the original.

The famous "Tuxedo Process" is a secret known only to the makers of Tuxedo. It was the first process of this kind; and it's the best. Tuxedo absolutely will not bite your tongue.

YOU CAN BUY TUXEDO EVERYWHERE

Convenient, glassine-wrapped, moisture-proof pouch . . . **5c** Famous green tin, with gold lettering, curved to fit pocket **10c**
In Tin Humidors, 40c and 80c In Glass Humidors, 50c and 90c

THE AMERICAN TOBACCO COMPANY

What Electricity Costs

Danger From Fire Is Much Less Where It Is Used

BY CLARENCE E. REID,
Kansas State Agricultural College.

ELECTRICITY supplies a safe, clean, effective, and convenient system of artificial lighting. It is valuable for use in stables and barns, where there always is danger of fire if oil, acetylene, or gas lamps are used. Much of the farm work must be done in the early morning or late evening, and as a safe, convenient, and time saving light, the electric lamp far surpasses any other form of lighting.



A large percentage of the fire losses in rural communities is due to the use of oil lamps and other dangerous illuminants. A fire in the country is almost certain to be more destructive than in town, because of the lack of help and fire fighting facilities.

Electric lamps consume no oxygen, and therefore do not vitiate the air you breathe; they require no matches; burn without flame, soot, or smoke, and are entirely safe. There is no danger of fire even if the lamps are broken. Their use eliminates the disagreeable work of filling and cleaning oil lamps. They give off almost no heat. Windows need not be kept closed because of them, as there is no danger that drafts will blow them out.

Private lighting plants are now made in great variety, but all must have the same general features. An electric generator is necessary to produce electricity from some other form of power. An electric storage battery is needed if we do not wish to run the dynamo every time we desire light. If the farm already possesses a gasoline engine the dynamo may be run with it. A switchboard is necessary, so that the outfit may be as nearly automatic as possible, and the operator may need no skill to start the plant.

More or less effort has been made throughout the country to utilize wind power. The electrical department of the Kansas State Agricultural college has been working along this line, and finds that the scheme has elements of success. The first cost of these windmill plants is so high, and the amount of power developed is so limited, that the cost of electricity has been about three times what it should be. Further development will be necessary before it can be recommended as a profitable scheme.

Many motor driven devices are now available to those who have electric power, and although few city or country homes have a large percentage of these devices, they are coming to be more generally used.

One of the less expensive types of vacuum cleaners on the market can be bought for \$20 to \$50. These cleaners are very light, weighing from seven to 15 pounds, and can be carried from one room or floor to another. The reduced wear and tear on carpets, the hard labor avoided, and the time saved amply justify the investment required for one of these devices.

The use of an 8-inch fan requires no more power than a 25-watt Mazda lamp. This can be used 4 hours for 1 cent.

A less common but very desirable motor application in the home is a 16-inch exhaust fan, exhausting smoke or odors from the kitchen or laundry. This fan is located in a small rear hall directly off the kitchen. The opening should be screened.

The most common motor-driven machine in the laundry is the washing machine. Both washer and wringer may be driven by the same motor. Either one may be started or stopped by simply turning a little lever. One of these machines in the home not only eliminates much of the hard labor connected with washing, but also saves a great deal of the wear and tear on clothes.

Another useful labor saving device in the laundry is a motor driven mangle. This will iron such pieces as table cloths, sheets, napkins, towels, pillow slips, and all similar articles classed as flat work. This may be heated by gasoline, gas, or electricity.

However pleasing may be the thought of equipping the home electrically, one must consider it on a business basis and count the cost. It is better to buy current, if possible, from a transmission line or from the town power plant, rather than to generate your own power. This is so because of the smaller investment necessary, and because central station power almost eliminates attendance and maintenance cost.

A 2 horsepower motor with automatic control for the pump, two 1/2 horsepower motors for the washing machine and cream separator, fans, an electric iron and vacuum cleaner will cost \$213. The battery should be capable of operating 19 Mazda lamps of 20 candlepower for 7 1/2 hours. Such a battery is large enough to last for two days in the winter months. The generator, battery, switchboard, lights and wiring will cost \$476, making the cost for the isolated plant of this size about \$689. The gasoline engine will consume nearly 200 gallons of gasoline a year. The gasoline cost is only a small part of the total expense of operating such a plant. The complete cost of operation is as follows:

Cost of 200 gallons of gasoline at 15 cents	\$ 30.00
Waste, oil and incidentals	6.50
Repairs 1 per cent on cost of complete generating equipment	4.25
Attendance 15 minutes a day at 15 cents an hour	13.70
Interest on \$689.20 at 6 per cent	41.35
Depreciation on \$689.20 at 8 per cent	55.15
Total yearly cost	\$150.95

You will note that the gasoline cost is only 19.9 per cent of the total operating cost. Assuming you purchase exactly the same amount of electricity from the central station the yearly cost would be \$96.87.

This installation is perhaps larger than the average farmer needs. The following figures are based on a very cheap outfit. In fact I think it is as cheap as you can buy. It will cost \$150 without the engine and belts, and its capacity is 12 lights of 12 candlepower. This size plant is not large enough to operate electrical devices and if such are used, it is necessary to start the gasoline engine each time.

The operating cost is as follows:

Interest on \$150 at 6 per cent	\$ 9.00
Depreciation on plant, 10 per cent	15.00
17 gallons gasoline at 15 cents	2.55
Oil and incidentals at 10 cents a month	1.20
Repairs	1.50
Attendance	7.80
Total yearly cost	\$37.00

Good Nails Save Shingles

The ordinary steel wire nail, the steel cut nail or the galvanized wire nail will not hold a shingle in place nearly the life of a good shingle. The best grade of shingles now in use will not rot on the roof, but will wear out by the continuous wearing of the surface produced by rain, storm and weather. If, therefore, a first grade shingle should be put on with a nail equal to its lasting qualities it would last for a generation.

If the life of an average shingle roof can be increased from 66 to 100 per cent we are saving just that much timber which is being cut into shingles today, and is an economic waste. The superior quality of a shingle roof, properly nailed, would soon increase the demand for shingles, thereby offsetting the loss occasioned by the increase of the life of the roof. We believe this condition can be remedied and this loss avoided, and this great saving to the consumer brought about by the use of the pure zinc, or even the zinc-clad nail. The pure zinc nail is a comparatively recent production, and from what the chemists know of zinc and its lasting qualities it is rust-proof and indestructible, so far as the elements may affect it. The zinc-clad nail can be purchased for much less than the pure zinc nail. Its superiority over the ordinary galvanized nail is that it is actually dipped into a molten mass of zinc instead of going through an electrolysis bath, as in the case of the ordinary galvanizing process.

USE IT 30 DAYS FREE

Don't send me a penny of money until you have used the Simplex Straw Spreader and convinced yourself that it is the machine you have been waiting for. You owe it to yourself to put this spreader at work to stop soil blowing, to protect new seeding, to save young wheat, to furnish humus for the soil, and to get the fertilizer value in the straw which will increase your wheat crop 5 bushel an acre.



The Simplex Straw Spreader

Just Send Me a Post Card

Put your name and address on a post card and mail it to me today. I will send you full description of the Simplex Spreader, how it works, how it is made, how to use it, and a proposition that will enable you to use it 30 days absolutely free. No money down—no bank deposit—not a cent required. If you don't find it satisfactory in every way, and the most valuable implement on your farm, send it back and I will pay the freight both ways and you won't be out a dollar.

is the greatest advance in farm machinery since the days of the self binder. Attach it to any hay frame or header barge. Scatters straw wet or dry, old rotten stack bottoms or new straw. Width of spread 18 to 20 feet.

Saves It's Cost First Week

A few days' work with the Simplex Spreader will put back in fertilizer value alone all you pay for the machine. Send me your name and address, and

I Will Convince You

that at last an efficient, durable machine for spreading straw has been made. I know it will do the work to your entire satisfaction and become one of the greatest money savers on your farm. Don't delay, but write me today, if you want to try the Simplex Spreader for 30 Days FREE.

The Manson Campbell Co. 350 Traders Bldg. Kansas City, Mo.

Lights That Do Not Smoke

This Farmer Has Them For 30 Cents a Week

BY V. V. DETWILER

FARMERS have as much right to live in comfort as do any other class of people, according to Eri Hansford who lives 7 miles west and north of Topeka. Mr. Hansford practices what he preaches. He has electric lights and steam heat in his home, and uses engines to pump water, run the cream separator and do the family washing. He is planning to install a water system this year.

Electric lights in the dairy barn, the milk house, the horse barn and the pump house, as well as in the farm home; that is the light situation on the Hansford farm. There are 38 lamps of 12 candle power on this farm, and in the three years that the plant has been in operation the running expense has been \$15 a year. This makes the cost for each light 40 cents a year. Mr. Hansford uses a great deal of gasoline in a year, for his motor car and for the several engines used on his farm. He buys his gasoline at wholesale prices. If the gasoline was paid for at retail prices he says that his lighting plant would cost him about \$18 a year.

The light system that Mr. Hansford has tested and found desirable, consists of a storage battery of 16 cells, a small dynamo that will generate 32 volts and 20 amperes of current, a switch-board, and a 2½ horsepower gasoline engine. The company that sold the outfit to him told him that a 2 horsepower engine would do the work, but Mr. Hansford thought he would prefer to pay a few dollars more and be sure that the power end of his system was not deficient.

The total cost of the system, installed and ready to use, was \$398. It would have been possible to cut down on this price, Mr. Hansford said, but he did not think it wise to do so. The company that sold the system to him suggested that he get a local electrician to do the wiring, and that he set up the engine himself. He objected to this at once. If something went wrong, he told them, the local man would say that the material was not what it should have been, and they would come back with the statement that the work had not been done properly. He would not have electric lights, he said, unless they would put them in and guarantee them to give satisfaction. This they agreed to do, but it necessitated the sending of a man from Chicago to do the work. Mr. Hansford does not begrudge the extra cost, however, for he got excellent work done. The plant has been in use for three years and has required only 40 cents for repairs.

When he first decided to have electric lights, Mr. Hansford feared that perhaps he would not be pleased with them. He thought there might be trouble with the machinery, and he frankly admitted to himself that he did not know much about electrical machinery. He always had been used to kerosene lamps, and did not realize what an improvement the electric lights would be. He is mighty free in his praise of them now. He says that he has not stumbled over a rocking chair in the dark in the last three years.

It is necessary to charge the storage

batteries about once every five days in the winter when a great deal of light is used. Once a month is as often as has proved necessary in the summer. When the batteries have been used until they need charging the voltage begins to drop and the lights get dim. The engine should then be started and run until the batteries begin to give off bubbles of gas. These gas bubbles indicate that the batteries are fully



Hansford Has Lights in All His Barns.

charged. If more current is forced into the batteries after the bubbles begin to rise this extra current is lost, and the plates in the batteries are injured slightly. After one has a little experience, though, it is not necessary to give the batteries much attention while they are being charged. In fact it is possible to get an outfit that is entirely automatic. All that is necessary with an outfit of that kind is to keep the engine in running order, and keep the tank filled with gasoline. When the voltage begins to get low the engine starts, and when the batteries are charged the engine is automatically stopped. Such an outfit is a little more expensive and, being more complicated, is more likely to get out of order when used by someone who is not skilled in engineering.

Mr. Hansford has not used electricity for anything but lighting, but at any time he wishes he can use the current for driving fans, heating electric irons, turning grindstones, running a vacuum cleaner, or for any other of the many uses to which electricity can be applied in the city homes.

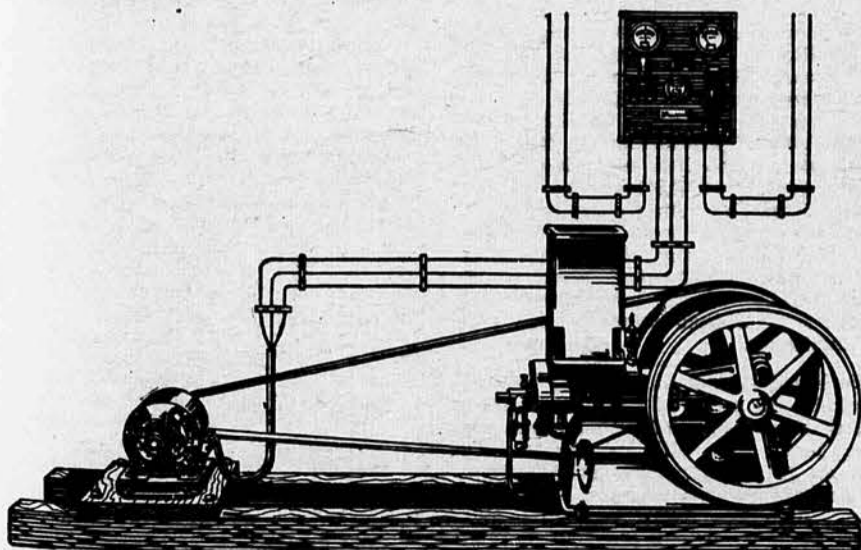
An electric washing machine will require about as much power as five 16 candle-power lights. An ordinary vacuum cleaner will use as much current as eight or nine 16 candle-power lights. A 3-pound flat iron requires the same amount of current as do 10 lights.

Electrical appliances for use with a low voltage plant, such as is practicable for a farm home, are not kept in stock by local dealers. The dealers can order anything you wish, and the cost should not be much more than for the attachments that are wired for the standard voltages.

Here is the list of material and prices for a farm lighting plant:

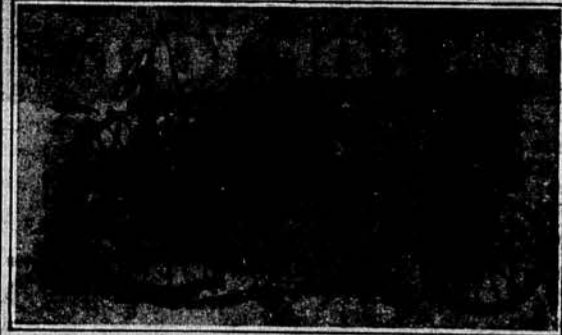
- Switchboard \$ 55.00
- Engine 70.00

(Continued on Page 32.)



The Generating End of Mr. Hansford's Lighting Plant—The Storage Battery of 16 Cells Is in His Cellar.

The BEST TRACTOR Proposition of the Year

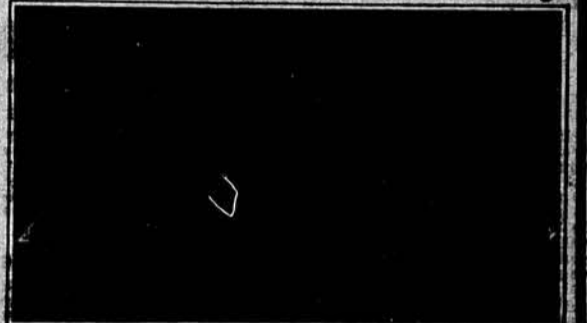


Don't buy a tractor, until you see ours. We make them equipped with two cylinder opposed or four cylinder upright engines. They pull two or three plows weigh 4,000 to 4,500 lbs., and cost \$600 to \$750, the smallest, lightest and lowest priced four wheel tractors made. After eight years of tractor building, we have a machine that will meet the requirements of the average farmer in the Middle West.

A First-Class Tractor That Will Save You Money

We also build Traction Trucks Gear or Sprocket Drive to make stationary engines self-propelling, 6 H. P. to 50 H. P. Practical, Dependable, Efficient, Economical, Light, Strong, Durable, designed for farm purposes, making tractors to do farm work out of stationary engines. For full information about our tractors or trucks, write

Electric Wheel Co.
Box 126, Quincy, Ill.



FURS Ship to BIGGS for QUICK RETURNS and HIGHEST PRICES!

Why not get the most money for your furs by shipping to the oldest and largest hide and fur house in the Southwest—Biggs at Kansas City. 38 years' square dealing. No long wait for your money. Our expert graders examine your shipment same day it arrives, and check in full good direct to you in first following mail.

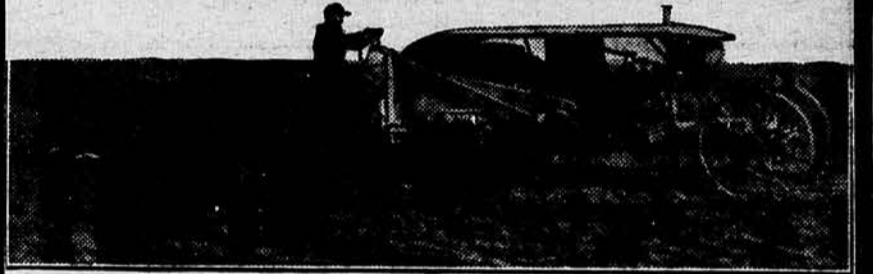
No uncertainty as to price you'll receive. We quote the top price and pay every cent we quote. Not a penny deducted for "commissions." Furs held separate on request and returned to you at once if you don't say our prices are better than you get elsewhere or if not satisfied in every way. A. E. Morris writes: "You beat every other fur house in the United States, and I have been dealing in furs 30 years." That's what half a million shippers think of Biggs.

Reliable Market Reports. Price lists you can depend on. Corrected right up to hour of mailing, sent to every Biggs shipper. Worth big money to you to be on our lists and have this up-to-the-minute market news.

Biggs Guaranteed BAITs will absolutely increase your catch and help you make more money or we refund their cost. Skunk, Coon, Possum, etc. and the skins of others in 50 and \$1.00 sizes. Free Fur Price Lists, Latest Market Reports, Catalog of Supplies and Trappers' Guide, Shipping Tags, etc. Write for them today. Address

E. W. BIGGS & CO. 432 5th St. Building, Kansas City, Missouri

The Wide Drive Drum Tractor Will Give You Best All-Season Service



THIS type of tractor affords several very important advantages over the two-drive wheel tractors. It furnishes the same amount of traction surface as old style tractors of much larger size, produces nearly the same power and yet weighs but one-third as much. The 5 ft. drive drum of the Gray travels over freshly plowed ground without packing it, giving it the same treatment as a regular packer. In plowing, the drum and two front wheels together crush all stubble, corn stalks, trash or weeds in front of the six plows so that the furrows completely cover this vegetation thereby utilizing its full fertilizing value. Other exclusive features are described in our new catalog.

The GRAY TRACTOR

Built For Years of Hard Service

Pulls Six Plows—20 H. P. Drawbar—35 H. P. in Belt
Four cylinder, 4 cycle tractor (vertical), forced water cooled; simple transmission of very finest quality materials (no bevel gears, no differential) gears run in bath of oil, securely housed; Hyatt heavy duty roller bearings throughout; finest structural steel frame with perfect 3 point suspension. All moving parts run in an oil bath completely protected from the dust.

GRAY TRACTOR MFG. CO.
2619 Central Ave. Minneapolis, Minn.

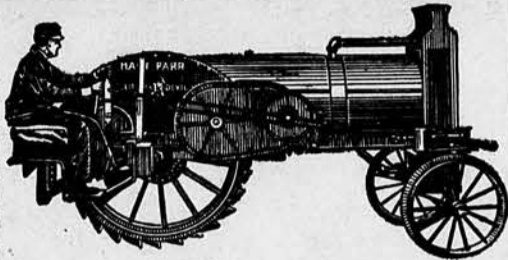
Sold on Approval
We do not ask you to pay for a Gray tractor until you have seen it work on your farm—until you are convinced that it does your work as it should be done. Nor does our interest in your Gray stop the minute you pay for it. Our organization will give you the best kind of service and make the Gray profitable to you. Learn about the men behind the Gray as well as about the tractor itself in our new catalog which will be mailed free. Use the coupon or write a postal or letter.

Name.....
Town..... State.....
I operate farm of..... Acres
I use..... Tractor..... Horses.....

GRAY TRACTOR MFG. CO.
1619 Central Ave., Minneapolis, Minn.

Get This "LITTLE DEVIL" To Work For You

Now that the "Little Devil" has arrived, costly horse-farming surely is a thing of the past. The "Little Devil" can be used profitably on any farm even the smallest. It will fit your farm to a "T"—enable you to get your plowing, planting and harvesting done on time and far cheaper than you can do it with horses. It is no longer good business to have a lot of money invested in horse-flesh and pay out more good money for feed, when for the price of 3 or 4 horses you can buy a



HART-PARR "LITTLE DEVIL" TRACTOR

The Tractor That Fits Every Farm
The Only Small Oil Tractor in the World

The "Little Devil" not only plows, harrows, discs, seeds, etc., but it cultivates corn, mows hay, cuts grain and does all the field work that you now use horses for—and does the work quicker, better, cheaper. And besides you can use the "Little Devil" to shell corn, grind feed, pump water, fill silos and do any kind of belt-work. Thus the "Little Devil" takes the place of seven or eight horses—does any and all work that you now use a gasoline engine for and saves you the wages and board of one or two men.

What the "Little Devil" Will Do

Here's what one man can do in a day with the Hart-Parr "Little Devil": plow 8 to 10 acres; disc 40 to 50 acres; mow 25 to 35 acres; seed 40 to 50 acres; drag 160 acres; cultivate 30 to 40 acres. Compare this with what your man-driven teams can do. Then think of the big difference in operating cost. The "Little Devil" will save and make money for you every day in the year. It will pay for itself out of what it saves in a single season.

Durable—Dependable

The best part about the Hart-Parr "Little Devil" Tractor is that it is absolutely reliable—you can sell your horses and depend upon the "Little Devil" to get your work done. The "Little Devil" is built by

HART-PARR CO., 234 Lawler St., Charles City, Iowa.

the pioneers of the Oil Tractor business—the largest exclusive manufacturers of oil tractors in the world. Built simply, with few parts, yet it embodies greatest strength, the utmost reliability and durability and is backed by the Ironclad Hart-Parr warranty.

Uses Cheapest Kerosene for Fuel

—hot or cold weather can't stop it—gets over plowed fields or wet ground easily because it has a wide wheel and is equipped with Hart-Parr Hold-Fast Lugs. Doesn't pack soil any more than horses. Used successfully in small fields—works up close to fences—gets into the corners—turns short like a team. No extra tools to buy for you use the same implements you now use with horses.

Make Bigger Profits Without a Cent of Extra Investment

Sell all but one or two of your horses now at the present wartime prices and buy a "LITTLE DEVIL" with part of the money; then you can do half again more horse work, and all of your stationary portable gas engine work, with a smaller investment than you now have in the horses alone.

WRITE TODAY for full particulars of this wonderful new tractor. Get in line for bigger profits in 1915. Our supply of "Little Devils" for early spring delivery is very limited. Prompt action is necessary if you want to secure one for spring work, so be sure to write at once for full details.

138

"FLOUR CITY" TRACTORS

The Flour City is built in units of power to pull four, six, eight and ten 14-inch plows; all are of the same design and differ only in size, power and weight.

Our Small Tractor will do double the work of a two-plow outfit, requires no additional help, costs but little more, and is the smallest outfit that can show economy in plowing.

The Flour City Line is the oldest in the field, its four cylinder, valve-in-the-head motor, the bevel gear transmission, light weight and simplified construction, are factors that contribute to its success and made it popular.

If interested send for our new CATALOG.

Kinnard-Haines Co.,
854 44th Ave. No.,
Minneapolis, Minn.



PURE MOUNTAIN STRAINED HONEY FROM SUNNY CALIFORNIA

Mail or Express C. O. D., or cash. Quality Guaranteed

One-half Gallon Pure Amber Mountain Strained Honey for 65c., F. O. B. Los Angeles
One Gallon Pure Amber Mountain Strained Honey for \$1.10, F. O. B. Los Angeles

Ask about Oranges, Nuts, Dried Fruits, Beans, etc.
PRODUCERS-TO-CONSUMERS SUPPLY CO. 230 1/2 S. Spring St., Los Angeles, California

OIL - OIL - OIL

WHOLESALE PRICE TO CONSUMERS—Combining best quality with low price. NO WATER IN MY KEROSENE OR GASOLINE.

- XXX 46 gravity water white kerosene.....\$6.00 for 52 gal. bbl.
 - XX 42 gravity water white kerosene (the kind usually sold).....\$4.25 for 52 gal. bbl.
 - XXX 64 gravity gasoline.....\$5.00 for 52 gal. bbl.
 - 1 case graphite axle grease (2 doz. 3 pound pails).....\$3.50
 - 40 gravity prime white stove distillate.....\$4.50 for 52 gal. bbl.
 - 38 gravity stove distillate.....\$4.00 for 52 gal. bbl.
 - 60 gallon (26 gauge) galvanized steel tank with pump and hood cover complete—a great convenience in every home.....\$3.60
 - Extra heavy pure crude oil, steamed and settled, (black oil) good lubricant, just the thing for greasing tools.....\$4.00 for 52 gal. bbl.
 - STANNARD'S PROCESSED CRUDE OIL, the best dip made for killing lice and curing mange. One application will do more to kill lice and cure mange than three applications of any other dip made (it destroys the nits).....\$5.00 for 52 gal. bbl.
- I also carry a full line of lubricating oils.
I will pay \$1.25 each for my crude oil barrels, \$1.50 each for my refined oil barrels returned to me at Coffeyville, Kansas, in good order, less freight charge on same.
O. A. STANNARD, BOX M, EMPORIA, KAN.

No Farms to Rent in Coffey

Some Land For Sale, But Prices Are High

BY HARLEY HATCH

THERE are fewer public sales of farm property this winter than we have had in this locality in the last six years. Few farms have been sold and but few renters are to move this season in this neighborhood. In fact, there are but few renters around here. In this school district there is but one and in the neighboring district—Hopewell—there is only one renter. The tenant problem is not bothering us.

We have received a number of inquiries since last fall, regarding farms for sale or rent in this part of the state. Those who have written may take this as a general answer for we can scarcely answer all such inquiries personally. There is less prospective moving about by renters this coming spring in this locality than in any year in a long time. There are very few farms for rent here. I do not know that I could at this moment name one farm for rent in 1915. On a number which have already been rented the rent has been raised over that of last year. This raise is due to good crops and high prices, this year, which has made cash rent a better proposition than share rent. In this it was the exact opposite of 1913.

The rent asked in this county is from \$150 up for improved 80-acre farms. In fact, there are many pieces of raw prairie land for which \$2 an acre and even more is paid. The nearer grass land is to the railroad, the higher the rent. For cultivated land the distance to the railroad does not cut so much figure; in such a case more depends on the quality of the soil and the buildings. A 120-acre farm five miles from town was rented a short time ago for \$380. This seems high to some yet we know of a fair upland 80-acre farm which paid the landlord \$375 this year in share rent. If prices for farm products continue to rise, rent will rise in the same proportion.

There are more farms for sale than there are for rent. Many farm owners who have no sentimental attachment to their home have a price placed upon their farm, a price that will make them a profit above what they paid for it. Such farms are always for sale. The price asked for land here varies greatly according to location, improvements and quality of soil. The low price for the county may be set at about \$30; but very little land is for sale at that figure. From that the prices range up to \$100 an acre. The average 80 to 160-acre farm that is for sale probably will be priced at about \$50 an acre for upland and \$75 for bottom land. Smooth prairie meadow with no improvements aside from a fence around it can be bought for an average price of \$35 to \$45 an acre. The price of prairie meadow depends a great deal upon location; if it is near the railroad so that the average hauling charge for hay is cut down to a small sum more is charged and more can be paid. If one is to go into the hay business he will find the hauling charge a fixed sum which will have to be met, and if it goes above \$1 a ton it soon makes a difference in price of \$10 an acre look small.

Some ask if we advise a move to this part of the state. We advise nothing. Every man must be his own judge as to the quality of the land and the chances for success. The best plan for the prospective land buyer to follow is to talk with men who live near the land they are thinking of purchasing. In this way the truth can be had regarding water supply, quality of the land and what it is best fitted for. As to buying direct from the owner, we doubt whether land can be had any cheaper than to buy through a real estate agent. The agent usually has the lowest price and he will sell for that before he will lose a commission.

We heard last night that hog cholera is within 4 1/2 miles of this farm. It is said that northwest of here farmers are losing many hogs with the disease. As soon as it appears in a neighborhood all marketable hogs are sold but on all farms there are many hogs and pigs which are scarcely fit for market, and these have to stand their chances. We have been fortunate in this immediate neighborhood in not having one case of

hog cholera in the 19 years we have lived here.

There are many who think that by feeding and care cholera can be prevented. We are not among those for we know that cholera is a germ disease and that when the germ is once introduced to the hog his chances are mighty slim, no matter how he has been brought up. It is our understanding that cholera is a disease of the blood and that it attacks that part of the hog which is weakest. If he has weak lungs, the cholera appears as a form of lung disease; if he has a weak digestive tract it appears in the form of violent intestinal trouble. As most hogs are fed unnaturally it follows that most cases of cholera take the intestinal form.

A Wakefield, Kan., reader writes regarding the Irish Cobbler potato. We have had only a two-year experience with this variety and from this would judge that it is not suited to Kansas conditions so well as our old standard varieties. However, the seed of the Irish Cobbler may be had of any seedsman and a trial on a small scale will do no harm. The Irish Cobbler is a fine potato in the North and it is one of the best grown in the New England states but it does not fit into southwestern conditions.

There are just two potato varieties that we like for our present conditions. These are Early Ohio and Eureka. For an early potato to be used before Christmas we think perhaps Early Ohio has no equal for Kansas. Eureka is just a little later but not so late that it will not make a full crop whenever Early Ohio does it. It has the advantage of being a much better keeper than Early Ohio. We have had Eureka's keep in fine eating condition for us until new potatoes came the next year. We used to raise the Peachblow and Blue Victor here for winter potatoes but since we no longer have mulching to raise them under we have been forced to give up trying to raise them.

In years gone by when all prairie hay was stacked out doors and when at the best it could not be sold for more than \$2.50 a ton in the stack there was plenty of spoiled hay to be had for mulching potatoes. In those days we mulched all our late potatoes and always raised good ones. Now, when baled hay on the track seldom sells below \$7.50 a ton, we cannot afford to let hay spoil and so there is none for mulching. The hay that it would take to mulch an average potato patch could now be sold for enough to keep a family in potatoes during the winter. So it comes about that most farmers here raise only enough potatoes to last them during the summer and fall and buy from northern or western sources their winter supply.

An inquiry comes from Oakley, Kan., regarding the Golden Beauty corn. It is a good corn for this part of Kansas but we very much doubt whether it would be suited to western Kansas conditions. If we were trying to raise corn there we should not attempt to grow any of the yellow varieties. A calico corn is raised there which is very hardy and by far better adapted to conditions than anything to be procured from the East. The Golden Beauty is not a large variety of corn. It will do better on our upland than any yellow corn we know, but we would not advise planting it in western Kansas. The same holds good with eastern raised kafir. Standard kafir has no place in western Kansas; the dwarf varieties should be grown there.

Most of the large crop of corn grown in the Neosho valley in Coffey county is being sold on the market. We think we are safe in saying that a smaller part of the corn raised in this county is being fed where it was raised than ever before. Corn is now bringing 62 cents here and the farmers figure that if they sell they are sure of that; if they feed they have to run the gauntlet of hog cholera and uncertain markets.

Proper feed and care will insure a lusty lot of lambs in the spring.

The flock should be given the chance to run in the open yard on all fine days.

Paint That's Worth While

BY E. F. LADD,
North Dakota.

What is a good paint? It is a paint that wears well and supplies a good, protective coating. When one asks, "How may we recognize a good paint?" it is not so easy to answer, for in general appearance there is very little in the mixed paint, as usually found upon the market, that will enable one to judge from its appearance whether it has these two essential properties.

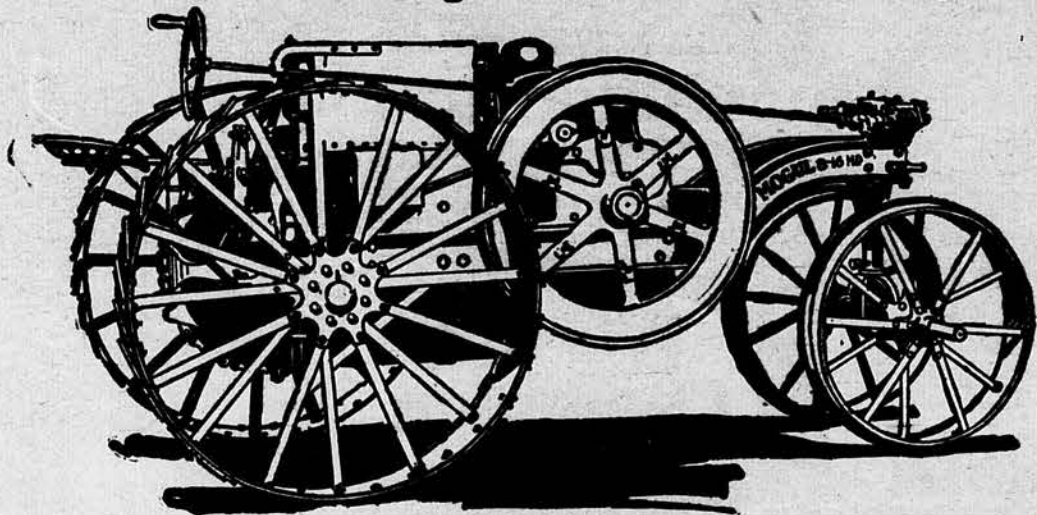
In selecting paint, or white leads to be used for paint, take only those which have a well established reputation. In applying a paint the working qualities may lead one to judge somewhat of the value of the paint, but even here a person needs to be skilled. How shall we know the things to look for in a good paint?

In states where there are paint laws see that the paint is labeled to show the composition of the paint; and if so, avoid any paint that contains any great amount of water, say 2 per cent or more. Water is to be avoided in all paints. Avoid paints which contain benzine or petroleum products, also paints which contain any great amount of so-called inerts as whiting, chalk, barytes, clay.

Mixed paints, aside from the added color, contain white lead and zinc as pigments and linseed oil and turpentine as liquids. White lead constitutes the basis for the pigment to which zinc is added. Some manufacturers add small amounts of silicates or barytes, but if there is more than 10 per cent of these constituents present, it would be well to consider whether the paint has a good reputation or simply an advertised reputation. It is said that the addition of a small amount of silicates, as magnesia, adds to the wearing quality, prevents settling and hardening in the can. As to the wearing quality, this has been questioned.

Paints which contain water usually had added emulsifiers or thickeners to

**Our New Year's Announcement
A Mogul Oil Tractor for \$675**



We announce for 1915 an all-purpose farm tractor with 8-H. P. at the drawbar and 16 on the belt
A Small-Farm Tractor for all Farm Work

This new Mogul 8-16 tractor has power to do the work of eight horses. Being a four-wheeled, all-purpose tractor, you can use it every working day. It will do all the plowing, disking and seeding. It will draw manure spreaders, wagons, hay loaders, mowers or binders. It will run a corn sheller, feed grinder, small shredder, thresher or ensilage cutter.

Any farmer can buy this new Mogul 8-16 tractor for \$675.00, cash, f. o. b. Chicago. The man who can use one of these Mogul tractors pays, at this price, the least for which a good, reliable all-purpose 8-16 tractor can be sold. If you want to use a Mogul small-farm tractor for spring work, your order should be placed now with the I H C local dealer. Write us for full information.

International Harvester Company of America
Chicago (Incorporated) U S A

Fruit Books Free

The State Horticultural society has for distribution a number of volumes 27, 28, 29 and 32 which contain papers of interest to those engaged in truck or fruit growing. These volumes will be sent free to those writing the secretary, J. L. Pelham, Topeka.

give the paint a better appearance than it really is entitled to, and many of these emulsifiers destroy or lessen the wearing quality of the paint.

A paint without turpentine dries slowly, but with too much turpentine the paint may be destroyed, burned up. Therefore, turpentine should be used in moderation, say from 5 to 8 per cent in the liquid.

Good paints may give bad results. They may be applied over old paints in repainting where there is no foundation because the old paint was either not well applied or a bad primer was used. Again, an inferior paint which readily peels and scales gives no foundation. Where paint is applied to damp lumber there is bound to be trouble; or, if dampness can come from behind so as to interfere with the paint, its wearing and protective qualities may be destroyed. Then again, the paint may not be properly thinned or mixed or applied. All these are faults of workmanship and lack of judgment.

But the essential things after all to look for in a good paint are to see that it contains a generous proportion of white or sublimed lead with zinc, and the less of inerts, barytes, chalk or clay, that it contains the better. As for thinners, these should be raw linseed oil and a small amount of turpentine, with the necessary coloring matter. See that the label shows this and nothing else. Then if the work is well done you should have a paint of good quality.

The Kind He's Always Bought

In renewing my subscription to the Farmers Mail and Breeze I wish to say that I admire the sentiment expressed in your papers against militarism. I also note that you sympathize with poor, struggling Belgium, and the allies in the European war, which seems to me natural and proper. With best wishes,
Burdett, Kan. J. C. Browne.

FREE

BEAUTIFUL HORSE PICTURE
Of Dan Patch 1:55, Minor Heir 1:58 1/2 and George Gano 2:02. Dan Patch is Champion Stallion of the World. Minor Heir and George Gano, the Champion Team of the World, Team Record 2:02. Size of Picture 16 by 22. This Splendid COLOR PICTURE of M. W. Savage's Three World Champion Stallions is on LARGE Size, Extra Heavy, and Superior Enamel Stock. Free of Advertising and is Worthy to Hang in Any Home or Office. It is a Very Fine Horse Picture. I want to Give You One—Absolutely Free, Postage Prepaid, if You are Over 21 Years of Age and Answer 3 Questions.
FIRST—In What Paper did you read this Free Picture Offer?
SECOND—How Many Horses, Cattle, Sheep, or Hogs do you own?
THIRD—Have you used International Stock Food Tonic, for Horses, Cattle, Sheep or Hogs?

\$2500. DAN PATCH COLTS ABSOLUTELY FREE
This Sensational Free Premium Offer is Fully Explained in Savage's Big Premium Book. Mailed Free on Request. ADDRESS OF OTHER Valuable Premiums Given Away with International Stock Food Tonic, Etc. Ask DEALERS for Book or My 49 Preparations. For Free Picture, Write To M. W. SAVAGE, MINNEAPOLIS, MINN.



BEAUTIFUL, LARGE PICTURE OF 3 WORLD CHAMPION STALLIONS IN 8 COLORS, MAILED FREE.

Get My Price—FIRST
Freight Prepaid—30 Days' Free Trial

I want to quote you a price that will cause you to sit right up and take notice on the grandest, best plow that ever turned a furrow. I can do it because we are the actual manufacturers, and sell direct to you. We don't have traveling salesmen—don't sell to jobbers or dealers. You save those expenses and profits when you order direct from our factory. But that isn't all. You get a better plow. I say to you that the

MONMOUTH OR GANG PLOW
will prove easier for you to handle, easier on your horses and it will do your work better than any plow you can buy, regardless of price. It's positively the only plow that actually carries the beams on top of the frame. No pressure on bottom of furrow—no friction. Single Ball and Horse Lift; and "Point First" action.

ALL SOLD DIRECT FROM FACTORY
FREIGHT PREPAID, SO YOU KNOW EXACTLY WHAT YOUR PLOW IS GOING TO COST YOU

I'll give you a chance to prove every statement I make, and we'll pay the "damages"—freight both ways—if we "fall down" in a single assertion. I want to tell you all about these plows and our other implements—Cultivators, Disc and Spike Tooth Harrows, Grain Drills, Mowers, Rakes, Farm Gates and other farm tools—all sold at factory prices. Satisfaction guaranteed. Just write a postal for our complete catalog. It's free. Write to me, The Plow Man, with

Get My Free Book

Lightest Draft Plow Made

Monmouth Plow Factory, 121 So. Main St. Monmouth, Ill.

Look Farmers Bale your hay direct from wind-row or cock, with the Luebben Baler as fast as the same force will stack, thereby saving the waste in stacking, and much of the food value which otherwise evaporates. Capacity, two to three tons per hour. Hay can be baled when ready to stack. Write for Catalog and prices.

Beatrice Baler Co.
Beatrice, Nebraska

Let Us Send You a Genuine Edison Phonograph on Free Trial

right to your own home. Entertain your family and your friends. Send it back at our expense if you don't want to keep it. A few dollars a month now pays for a genuine Edison at Rock-Socket prices and without even interest on monthly payments. Send today for our beautiful Free Edison Catalog. A postal or a letter is enough. But send it at once. Write today.

F. K. Babson, Edison Phonograph Distributors
4821 Edison Block Chicago, Illinois

Sunshine Lamp 300 Candle Power FREE

To Try in Your Own Home Turns night into day. Gives better light than gas, electricity or 18 ordinary lamps at one-tenth the cost. For Homes, Stores, Halls, Churches. A child can carry it. Makes its light from common gasoline. No wick. No chimney. Absolutely SAFE.

COSTS 1 CENT A NIGHT

We want one person in each locality to whom we can refer new customers. Take advantage of our SPECIAL FREE TRIAL OFFER. Write today. AGENTS WANTED.

SUNSHINE SAFETY LAMP CO.
210 Factory Bldg., Kansas City, Mo.

Get the Whole Wonderful Story

Write for Free Book "Hatching Facts" Winners of 21 World's Championships with Belle City Hatching Outfits tell the story of their success in their own words in my great new Free Book, "Hatching Facts." Send for the book today. A postal brings it. Gives full information, facts, proofs and particulars. Among Belle City Championship Prize Winners are some who never operated an incubator before. Thirteen more Belle City Championships added last season—all with 100 per cent hatches. These, added to eight world's championships formerly won, make

Belle City Incubator Now



Times
World's
Champion

Free book also gives stories of multitudes of men and women scoring big hatches with the Belle City. \$27,000 World's Champion Belle City Outfits are now in use. The book tells how Belle City Hatching Outfits are made—shows them in actual colors—photographs of prize winning hatches—gives my ten-year money-back guarantee—my low price and 1-, 2-, 3-months' Home Test—freight prepaid—full particulars of

My \$800.00 Cash Gold Offers

Greatest chance you ever had to make money with a hatching outfit. You don't have to have any experience whatever. Don't let any one get the start of you. Free Book tells you everything you want to know. Write today. No one else can give you so much Hatching Value for so little money. Jim Rohan, Pres.

Belle City Incubator Company
Racine, Wis.

Get My Low Price 1-, 2-, 3-Months' Home Test Offer—**Freight Prepaid**

1 Ship Quick from Kansas City, Buffalo, Minneapolis and Racine

My New Book on Incubators Sent Free—Don't Buy Till You See It

Too many cheap incubators—too many wasted eggs—too many weak chicks—too many disappointments—too much money lost with poorly constructed machines. You can't afford to fool with them. The Queen is built to hatch without trouble. 14 valuable improvements on 1915 Model. Read about them in my free book. Queen Incubator Co., 121 7th Ave. Lincoln, Neb.

Hatches Every Chick

Poultry raisers ought to follow the simple and easy Buckeye system which positively hatches every hatchable egg. How to make \$200 a season with one incubator that costs \$7.50 is fully explained in a most interesting book which will be sent absolutely free to any reader who mentions this paper. Every one should write today for this valuable free book to BUCKEYE COMPANY, 640 Euclid Ave., Springfield, O.

THIS BIG, 3 1/2 FOOT TELESCOPE FREE



This is a real telescope and not a worthless toy. It is made by one of the largest manufacturers in Europe. When closed, as shown in picture, the telescope is 12 inches long and has a circumference of 5 1/2 inches. When all 5 sections are pulled out the full length is over 3 1/2 feet. It is built of the best materials, brass bound throughout. We furnish with each telescope a solar eye piece for use in studying the sun and the solar eclipses. Eye piece can also be used as a magnifying glass to detect insects or germs in plants or vegetables.

Powerful Lenses 5 to 10 Mile Range

The lenses in this telescope are carefully ground and correctly adjusted by experts. See objects miles away. Farmer said he could count the windows and tell the colors of a house 7 miles away and could study objects 10 miles away which were invisible to the naked eye. Absolute necessity for farmers and ranch men. They can keep their eyes on the cattle, horses or men when far distant.

Our Offer!! We will send one of these big telescopes free and prepaid to all who send \$1.00 to pay for one year's new or renewal subscription to Mail and Breeze and 25 cents extra for postage (\$1.25 in all). The Telescope is guaranteed to please you in every way or your money will be promptly refunded. Order at once. Address all letters to

Mail and Breeze
Eighth and Jackson,
TOPEKA, KANSAS.



Latest Book "Profitable Poultry," finest published; 144 pages; 210 beautiful pictures complete volume, how to succeed with Poultry, describes busy Poultry Farm with 53 varieties of pure-bred birds. Gives lowest prices on fowls, eggs, incubators, grain sprouters, etc. This book 6 cents. Berry's Poultry Farm, Box 37, Clarinda, Iowa

MONEY IN POULTRY AND SQUABS Start small. Grow big. Get winter eggs. Keep healthy fowls. Save your chicks. Foy's big book tells how. Describes largest poultry and pigeon plant. Shows fowls in natural colors, how to feed for eggs, how to select best layers. Mailed Free. F. F. OY, Inc., Box 7, Des Moines, Iowa

PFIL'S 66 VARIETIES farm-raised Land and Water-Fowls. Eggs in season. Illus. Catalogue, and "Grower's Guide," 2c. An honest deal. Write today. HENRY PFIL, Farmer-Poultryman, Box 604, Freeport, Ill.

Where do the poultry profits go? Have you ever figured this out? We have made an exhaustive study of this important problem and the answer is in our new Poultry Book, just off the press. Send 10c for a copy, to-day, and we will enclose our Cash Value Coupon. The book is worth several dollars to the poultry owner. THE G. E. CONKEY CO. 118 Conkey Bldg., Cleveland, Ohio

BIG HATCHES! On One Gallon of Oil—One Filling of Tank!

RAYO Incubators produce higher average hatches because center heat insures even temperature. Hinged glass top puts eggs, thermometer and all in plain sight, saving labor. Oil tank needs but one filling for entire hatch. Flame regulator saves 3 to 4 gals. oil every hatch. Hatching chart and money making book on request. Write for them and new catalog. Rayo Incubator Co., U.D. Str. 3130, Omaha, Neb.

THE PROFITS IN POULTRY KEEPING

IS THE TITLE of our 200-page Free Complete Catalogue and Poultry Guide for 1915, which we mail postpaid to any address on request. Illustrates and fully describes our three styles of Incubators, eight different sizes, ranging in price from \$10 to \$38; also our self-regulating, self-ventilating, all-metal Portable and Adaptable Brooding Hovers and nearly 100 other valuable, practical standard articles we manufacture for successful, money-making poultry keepers on any scale of operation.

WRITE TODAY for our Complete Catalogue and other valuable free printed matter. Address our place of business nearest you.

Cyphers Incubator Co., Dept. 92 Buffalo, N.Y.
Boston, New York, Chicago, Kansas City, Dallas, Oakland

FRUIT TREES

Fruit, Ornament and Forest Trees, Vines and Roses! Everything in the Nursery line. Direct from Grower to Planter, at one-half agents or retail prices. All healthy and dependable stock that will live and start growing from the day transplanted.

Our Big Illustrated Catalogue is Free to all who are interested. It tells you everything you want to know about selecting, planting and growing trees, shrubbery, vines, etc. It's Free. Write for it today.

THE RATEKIN NURSERY CO. SHENANDOAH, IOWA. Box No. 16.

REDS

Hens That Made a Record 232 Eggs Laid in 1914

BY ALBERT G. REQUA
Caney, Kan.



I HAVE been running a little experimental station here on my farm, believing that it is worth while to try to breed hens for egg production. I have not followed the lines advocated by the average breeder, because I do not believe that in-breeding or line-breeding is the most successful way to build up an egg producing strain. A great deal of vitality is needed by the hen that lays a large number of eggs. By using males that are not related to the hens I believe that I am able to grow a more vigorous flock than would be possible otherwise. It has been possible for me to keep the rich, red color that belong to this breed of birds, in my flock.



Trap-nesting was tried on this farm, but now I select my birds for shape and general appearance. The young birds shown here were 100 days old when the pictures were taken. The hen was 1 year old when the picture was taken. The mother of these birds laid 241 eggs in 365 consecutive days, and their sire's mother laid 229 eggs in the same time.

I had a flock of 100 hens in 1912 that averaged 207 eggs for the year. The next year a flock of 10 hens laid an average of 227 eggs in 365 consecutive days. Last year I had 10 hens that averaged 232 eggs. This record is high, but I believe that hens should be bred to lay more eggs than that in a year.

Not one of the hens in my flock was sick last year. Only four of them went broody in the year. I provided them with a cool place during the hot weather, and warm quarters in the winter.

My hens' rations were somewhat different last year from previous years. I fed fish scrap, fresh ground bone, rice screenings, parched corn, sprouted oats, wheat, chopped onions, potatoes, bran, charcoal, and clam shell. No wet mash was fed.

I keep a pedigree of all my birds, and all my breeding pens have been in the 200 egg class for four years.

Green Food For Winter Hens

Owing to the dry weather last summer and fall there were about 200 heads of cabbage in our garden that did not mature well. I had these pulled and buried before the freezing weather began. Our nearest neighbor is a gardener and does not have a hen on the place, but he did have an abundance of small turnips and turnip tops last fall. I got a wagon load of these. We have fed them all fall and still have some on hand. I sprouted oats in the kitchen window last year, but green food has cost me nothing this year as the gardener was glad to have his ground cleared. I feed an abundance of skimmilk to my hens. Now and then they get a portion of a fresh rabbit, ground bone and all in an old meat chopper.

Hallowell, Kan.

An Oklahoma Flock

I stocked up with 126 hens and five roosters three years ago. Half of these were purebred White Rocks and the other half were just common mixed chickens. I put the five roosters with the White Rock hens for breeding purposes, and the mixed chickens were kept separately for eggs. I turned each bunch out in the yard every other day, so all the hens had range half the time.

My hen house is 30 by 10 feet, 6 1/2 feet high at the back and 7 1/2 at the front. The house faces the south. There is a room 10 feet square at each end of the house, and a hall in the middle

10 feet square. There is a double tier of nests on the north side, built on the outside of the building. These nests are covered with hinged boards crossing three to five nests so as to make it possible to get at all nests from the outside of the building. There are 44 nests in all. The hens enter them from rooms and hall by openings to each nest.

The house is boxed all around with tongued and grooved flooring. Each room has three windows, or rather openings, on the south side close up to the roof. They are each 1 1/2 by 2 feet. In extremely cold weather I put muslin over the windows but usually there is nothing but wire over them. When the doors are shut the building is plenty warm. The roosts are poles about 9 feet long and are made by nailing a strip of flooring to each end of three of the poles. These are set up ladder fashion, meeting at the top and footing to the north wall and the south edge of the door. That makes six roosts, all movable. I have three more roost poles made the same way leaning to the south wall, making nine roost poles to each room.

We use a dirt floor, filled 6 inches higher in the rooms and hall than the level of the ground outside. The yards slope slightly to the south. I use air slacked lime on the roosts and floor several times a year and also put from 1/4 to 1/2 inch of some kind of lime in the nests every time I clean them out, which in summer I do after every hatching. I use hens altogether for hatching. I never have been bothered with mites or lice.

My house and yards cost \$84, my starting stock \$79.20 and all breeding and other stock bought in the three years \$16.05. Feeds which include oyster shell, meat scraps, grit and everything bought for the three years, cost \$128.10, being a total of \$307.35 paid out. The receipts have been for chickens sold, \$146; eggs sold, \$282.90; and I have on hand now about the same number of chickens that I started with and they are worth about the same, \$79.20. This makes a total of \$508.10 for receipts. The bulk of the feed has been bought, but of course they pick up some in running over the pastures and fields and around the barn.

I think this is a good farm showing. If I was near a city market I could make a better record, I think.

Adair, Okla. D. S. Cumming.

Hens For Big Egg Yields

Feeding and housing have much to do with big egg yields, but we place greater value on the breeding than on either housing or feeding. The trap nest is a necessity in building up a laying strain, but this in itself is of little value. The trap nest is only a means to an end. Trapnest some of your flock and then mark the chicks so you will know the sire and dam of the pullets and cockerels, then trapnest these pullets, and breed every year from the hens and males which seem to be able to breed high producers. You must do some pedigreeing along with the trapnesting.

Every hen has hundreds and even thousands of undeveloped eggs in her body. The problem is not one of feeding and housing eggs into the hen's body, but the problem is how to get the eggs out of her body.

T. E. Quisenberry.

Mountain Grove, Mo.

A very little grain, fed regularly, will go a long way in making the flock profitable.

Motor For a Bicycle

The latest use for a gasoline motor is to be found in a new device called the motor wheel which can be attached to any bicycle within a few minutes.



This motor gives enough motive power to carry the rider 100 miles on one gallon of gasoline.

It is predicted that the motor wheel will restore bicycling to its former popularity since it affords all the pleasures of a long bicycle tour without tiresome leg work. The device consists of a small wheel which is to be attached to the bicycle frame beside the rear wheel. Upon this wheel is mounted a small and very compact power plant consisting of a 1-cylinder four-cycle motor with high-tension magneto, carburetor, driving gear and gasoline tank. The motor wheel is fitted with a heavy motorcycle tire which affords sufficient traction to propel the bicycle. The device in no way interferes with the rider's perfect control of his wheel.

Starting, stopping and regulating speed are controlled by a lever attached to the handle bars. The entire device weighs less than 50 pounds.

Ducks That Needed Surgery

We knew a woman who had several young ducks that became crop-bound from eating too much dry wheat to which they were not accustomed. She thought they would die anyway so she opened their crops with a sharp pen-knife and, after removing a part of the

Earn This \$2.50

You have had experience in poultry growing, and your experience may be very valuable to the fellow on a small plot of ground near a city, who wishes to keep a few hens but knows nothing about the work. Send us a plan for starting a 100-hen poultry plant, and if your plan is the best received before January 27, you will receive \$2.50 for it. Just tell how you would plan a little poultry business on an acre or two, if you had to make part of your living that way.

contents, stitched the cut edges together. The next morning the ducks were all right and seemed to be suffering no inconvenience. This proves that such operations are within the range of safety when necessary. W. H. Plumly. R. 2, Aurora, Kan.

Gather Eggs In Winter

The securing of eggs in winter depends a great deal on the feed. At the North Dakota Experiment station the following has given good results:

Morning feed—whole wheat.
Noon—bran mash with meat scraps or house scraps and some green food as roots.
Evening—corn and oats mixed.
It is also important that the hens have grit, as crushed granite, and crushed oyster shells to furnish lime for shell making. The housing is important, too. The poultry house should be well lighted and well ventilated.

Keep at least one horse in the stable shod with never-slip shoes; in this way be prepared for an emergency in cases of sickness or other needs.

It's better to be drowned doing something than be everlasting dry and never arrive.—Quayle.

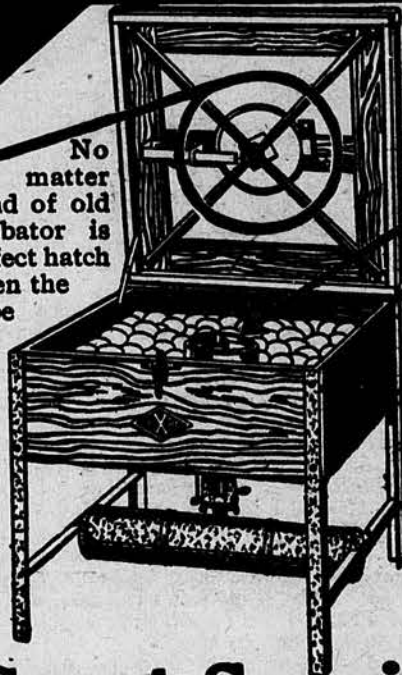
The man who can sell his stock without regret—who doesn't feel the parting—isn't just what he should be.

Roots are nearly indispensable for the profitable feeding of sheep in winter.

Record Hatches Are Always Made by Moist Heat

X-Ray Radiator

X-Ray Vapor Generator



No matter what kind of old style incubator is used, the perfect hatch occurs only when the heat happens to be right. But why depend on "happen so"

like the heat under the

mother hen.

No other machine has it. No other machine can use it. Get the facts. When the heat enters the X-Ray Egg Chamber it is concentrated on the X-Ray Generator. This produces a warm gentle vapor which pervades the entire egg chamber. The heat then passes to the X-Ray Radiator which carries it to the farthest corners. Every ray of heat must pass over and through this warm vapor before it reaches the eggs. And every egg gets its share alike.

X-Ray

when you can make certain of moist heat by using X-Ray Incubator? With its wonderful new moist heating principle, it is natural moist radiation just

Incubator

vades the entire egg chamber. The heat then passes to the X-Ray Radiator which carries it to the farthest corners. Every ray of heat must pass over and through this warm vapor before it reaches the eggs. And every egg gets its share alike.

Fifteen Great Special Features

We now have ready the finest illustrated and most completely descriptive incubator catalog we ever published. Send for a copy. It is free. It tells all about the exclusive X-Ray features. The X-Ray Central Heating Plant. Saves 75c to \$1 per hatch. Big Oil Tank requires only one filling to hatch. The X-Ray Egg-Tray—leaves entire space available for eggs. The X-Ray Automatic Trip—the X-Ray

Regulator automatically operates it to shut off or let on flame to just the right size for the right amount of heat. X-Ray Hinged Glass Top. X-Ray material and finish—Rosewood enameled galvanized steel outside—finest insulating material—California redwood interior—rustproof, leakproof—handsome enough for the parlor. We pay the freight—No agents—Shipped direct.



X-Ray Brooder also has X-Ray Radiator

Write and Ask for Book No. 47

Get our big new incubator book and our low direct-to-you factory prices. We'll guarantee that it's one of the most interesting works on incubators you ever read.

X-Ray Incubator Company
Des Moines, Iowa

New X-Ray Book

Get This Great Book

Ironclad Wins in 2 Biggest Hatching Contests

EVER HELD Both For \$10 PRESENT PAID

Mrs. O. F. Merriek, Lockney, Tex., with her 140 egg Ironclad incubator wins in the last hatching contest held by the Mo. Valley Farmer and Neb. Farm Journal. She placed 148 eggs in the incubator and hatched 148 strong chicks. Think of that! You can now get these famous winners—

140 EGG INCUBATOR AND 140 CHICK BROODER—

If ordered together, for only \$10.00; freight prepaid east of the Rockies. Both are made of California Redwood. Incubator is covered with galvanized iron and asbestos, hot water type, triple walls, copper tank and boiler, self-regulating Tyco thermostat, O. K. Burner, egg tester, nursery complete, set up ready to run. Brooder is large, roomy, well made with wire scratching yard. Compare material and construction with other makes; if you do you'll surely order Ironclad. Guaranteed 10 Years. 30 Days Trial. Order direct from this ad.; hundreds do; money back if not satisfied. Or write for free catalog. Ask the publishers of this paper about us.

IRONCLAD INCUBATOR CO., Box 97 RACINE, WIS.

WANTED IDEAS Write for List of Inventions Wanted by manufacturers and prizes offered for inventions. Our four books sent free. Patents secured or Fee Returned. **VICTOR J. EVANS & CO., 825-F Washington, D. C.**

\$200 Down Gets a KANSAS FARM

Down in the five southwestern Kansas counties, adjacent to the Santa Fe's new line, there are some fertile quarter-sections that are yet unsettled. There's a chance here for you to get Kansas land CHEAP—terms easy, results certain. Ample rainfall for raising milo-maize, kaffir corn, and other fodder crops which make ensilage equal to Indian corn for fattening beef cattle. Fine climate. You get possession of 160 acres for only \$200 down (price \$10 to \$15 per acre), remainder in easy installments for ten years after second year, allowing your farm to PAY for ITSELF. Write to-day for particulars and descriptive folder.

E. T. Cartledge
Santa Fe Land Improvement Co.
1828 Santa Fe Bldg., Topeka, Kan.

FARM FENCE
41 INCHES HIGH FOR STAYS only 6 inches apart. Wires can not slip. 100 styles of Farm, Poultry and Lawn Fencing direct from factory at money saving prices. Ideal Galv. BARBED WIRE \$1.45 30-rod spool. Catalog free. **KITSELMAN BROS. Box 52 Kuncia, Ind.**

We Want Farm Loans
IN EASTERN AND CENTRAL KANSAS. Current Rates—Money Ready—No Delay. Liberal Proposition to Good Agents.
PIONEER MORTGAGE COMPANY
Est. 1896 Mulvane Bldg., Topeka, Kansas

An Opportunity

No field of endeavor today offers so much to ambitious, successful men as salesmanship. The live wires in every line of business are the men who sell things.

The sales department of Farmers Mail and Breeze offers an exceptional proposition on a salary and commission basis to men in Kansas who are anxious to increase their earning capacity. Previous selling experience is not essential. With our offer an income is assured for anyone, size of the income commensurate with the effort expended. We are anxious to explain our proposition to responsible men.

Agency Division
Farmers Mail and Breeze
800 Jackson Street
Topeka, Kansas

An Engine That Went to Work

Woman's Tasks Made Easy Means More Happiness For the Family

BY MABEL GRAVES



"READY, Helen? I'm going down to the barn. I'll be back in ten minutes." A door closed quickly and "the man" was gone.

It was Monday morning in Mrs. Bishop's farm kitchen. Monday morning meant wash day. Clothes had been gathering for a week, as they will gather where there are three small children and "men folks" in the field. Elizabeth, the oldest was five, and though she loved to be called mother's helper and sometimes wiped almost all the supper dishes she more often was out chasing the chickens and gazing at her dearly beloved Dobbin at the barn. Tom, 3 years old, was all boy; and the baby, like most babies, spent his time getting into the coal pail and dragging his cherubic self through all the dust that happened to be on the floor.

So on this Monday morning there was gathered a wash of the kind that is gathered every Monday morning in every farm home, large enough with the dishes and the cooking and the babies to keep one pair of hands busy all day long, even with the best of management. But Mrs. Bishop was serene as a summer morning, even if November clouds did hang low.

Before the breakfast dishes were touched all white clothes were put to soak in cold water, and a boiler of water was put on to heat. Then the dishes were attended to. Getting the water was not a back-breaking task, for three steps from the kitchen stove was the sink, where a pump brought soft water from the cistern, clear and clean, ready for every household purpose, and waste pipes leading from the sink carried away all drainage.

The visitor had been let into the secret, and excitedly waited for what was about to happen. Soon it was heard, the steady purr which told that the washing had begun. At this home wash day is a joy. Instead of hours of back-breaking, nerve-racking rubbing at the old wash tub a gasoline engine does the work. It works steadily all day long if necessary, without murmur or complaint, asking only for oil. A belt from the engine runs the washing machine. Turn an attachment—the washer stops and the wringer is at work while the owner may read a book.

Another attachment from this same engine runs the barrel churn, and another turns the grindstone. The engine might also turn the cream separator, which is in the same room, but to do this it would be necessary to put in an overhead shaft to equalize the motion, and as the number of cows on the farm are few this has not yet been done.

Corn husking and kafir topping were waiting in the field, but Mr. Bishop stayed with the engine until the pails of heavy, wet clothes were carried to and from the boiler and the snowy baskets had been taken out to the line. "Where a woman has children," he said, "the man ought to help her." Even with all this done there was rinsing to see to, and bluing and starching, and looking to see that everything was clean, and hanging on the line—it was still a woman's wash day. By 10 o'clock most of the clothes were swinging in the breeze. The noon meal was ready on time, the house was tidy, the children were happy, and no one was tired.

That afternoon there was a carpet to

be cleaned. Flying dust and tired arms had been saved day after day by the use of the carpet sweeper. But misty weather had meant muddy shoes and soiled floors; so the vacuum cleaner was brought out. Two persons were needed to operate it, one to furnish the power and the other to operate the hose. Five-year-old Elizabeth could have handled the hose, but she found it more exciting to work the handle. In 15 minutes the sack was filled with dust, much of which a broom would have left on the under side of the carpet, and the carpet was clean as if it had been beaten on the line.

When Saturday night came the children had their baths in the big bath tub, in the little bath room just off the kitchen. The evening was cool, so the coal oil stove was brought in, and soon the room was warm as toast. "After you are once used to a tub," confided Mrs. Bishop when all was over, "you'll never want to go back to a wash bowl." The water for the tub is not automatically heated on the stove and piped in, but has to be carried in. That is an improvement which the Bishops will work out in future years.

In the parlor a gasoline ceiling lamp gives a brilliant light for reading or working; it is never out of order and never has a chimney to be cleaned. Some people object to a gasoline light because it is noisy, which, of course, is a matter of personal preference.

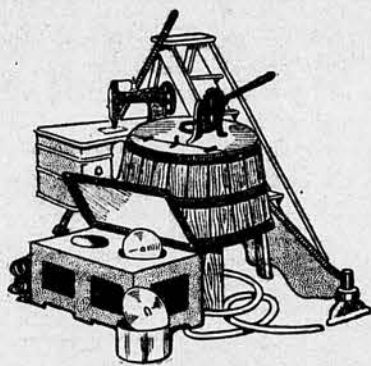
This is a Kansas home, an average Kansas home in the matter of wealth. The owners of the farm are not known to their friends as the Bishops, but what matter? Their real name has been known for years to every reader of the Farmers Mail and Breeze.

Out in the barn are machines for doing all the work of the farm—drills, disks, corn binders, two-row cultivators,

manure spreaders, plows and harrows. Some of these are on every farm. They should be. The man who with the help of improved machinery is able with two hands to do the work of four is on the road to success. His wife needs extra help too, and the tools for lightening her work are comparatively inexpensive. The 1½ horsepower engine on the Bishop farm with

the washing machine cost \$65, and 10 cents' worth of gasoline does the washing for a month. When they got their vacuum cleaner they thought they might as well get a good one that would work easily and last a long time, so they got one costing about \$25. Sink and tub are not expensive when the plumber's work is done by home labor, and all the family shares in the benefits and the general convenience.

There is more to homemaking than cooking and sweeping and washing the dishes. There is the right of being a happy wife and a sympathetic mother, ready to listen to tales of childish joys and sorrows, bind up broken fingers and broken hearts, a mother who can tell bedtime stories and meet a daughter's friends and sympathize with a man's ambitions. And no woman can do this who is worn out with the drudgery of living. Labor-saving tools in the house will pay in dollars saved on doctor's bills and sometimes undertaker's expenses; but the greatest profit is in human hearts. And hearts are worth more than gold.



Tools That Make Work Easy

My Own Shall Come to Me

Serene I fold my hands and wait,
Nor care for wind, nor tide, nor sea.
I rave no more 'gainst any fate,
For lo! my own shall come to me.

I stay my haste, I make delays,
For what avails this eager pace?
I stand amid the eternal ways,
And what is mine shall know my face.

Asleep, awake, by night or day
The friends I seek are seeking me;
No wind can drive my bark astray,
Nor change the tide of destiny.

What matter if I stand alone?
I wait with joy the coming years;
My heart shall reap where it has sown,
And gather up its fruit of tears.

The waters know their own and draw
The brook that springs in yonder heights;
So flows the good with equal law
Unto the soul of pure delights.

The stars come nightly to the sky:
The tidal wave comes to the sea;
Nor time, nor space, nor deep, nor high
Can keep my own away from me.

—John Burroughs.

There's Another Day Tomorrow

Almost every factor in man's world has changed within a few years to make for greater efficiency. The vast majority of wives and housekeepers do not follow the new and uplifting methods. One reason they do not is that woman dreads being criticised by woman. She refuses to let the washing go over the regular day, regardless of fatigue, physical condition, or other work or affairs for fear the neighbors will gossip.

The woman who drudges because her mother and grandmother drudged, is a fool. The woman who is afraid of what the neighbors may say is a ninny, says Dr. William Lee Howard in The Mother's Magazine. Both are wicked, because the drudge not only hurts herself, but injures her husband and gravely imperils the health of her children.

To neglect your housework is not a crime. To neglect your health and the health of husband and family is a crime, and a heinous one. If you are in the rut of monotony that brings drudgery, physical breakdown, and perhaps months of suffering—get out. Do it now!

There will be dishes to wash, beds to make, and pies to bake a thousand years from now. But you have only one trip through this world. Enjoy it with your husband and loved ones. Be fair to yourself, and fair to them, and make the most of life.

If you are in a rut, or feel in danger of getting into one, dry your hands, hang up your apron, and take a day off. Then take at least a day off every week.

Better take two days, until you are sure that you are safely out of the rut.

Starting the Baby Right

Your baby in order to escape the usual teething disorders and safely pass the dangers of the second summer needs to be carefully looked after and trained into good habits of eating and drinking. The first twelve months it must be given no food but milk, and nothing between meals but water. The second year new foods may be added gradually. Coddled eggs, beef juice, chicken broth, fruit juices, non-starchy breakfast foods with cream and sugar, and baked apples, may be given with safety. Do not give potatoes or other vegetables to a child under three. His stomach cannot possibly digest them.

The writer personally knows a family of four strong children who were brought up on this careful diet, outlined by an educated physician. As babies they were never either cross or sick, and had no disorders of any kind during teething. The usual "second summer" ills were unknown in that family, and the children now have life's best blessing, perfect health.

Mrs. Bell.

For the Cause of Humanity

Clarence H. Howard, president of the Commonwealth Steel company of Granite City, Ill., recently refused an order for shrapnel amounting to 2½ million dollars. The reason for his refusal was that he wished to discourage warfare. Many Nebraska farmers refuse to sell horses and mules to the European army for the same reason.

What are Kansas farmers doing? There is no organized work in that direction. Those who have the love of humanity at heart are refusing this blood money as individuals. Let us hear from some humane, patriotic Kansans.

Mrs. Frances F. Spangler.
R. 5, Pittsburg, Kan.

This Girl Could Not Walk or Stand

—at the age of four

Pink Vosburg, daughter of Mrs. Sula Vosburg, Bedford, Ia. Mrs. Vosburg brought her daughter to this Sanitarium January, 1911, for treatment of Infantile Paralysis. The child could neither walk nor stand alone, but could only crawl on her hands and knees. She was here eight months; now walks, goes to school and gets about splendidly. Mrs. Vosburg will affirm the above. This is not a selected case, nor are the results unusual.

The L. C. McLain Orthopedic Sanitarium

In a thoroughly equipped private sanitarium devoted exclusively to the treatment of crippled and deformed conditions, such as Club Feet, Infantile Paralysis, Hip Disease, Spinal Diseases and Deformities, Wry Neck, Bow Legs, Knock Knees.

Let us advise you regarding any crippled, paralyzed or deformed child or person in whom you may be interested. It will cost you nothing, and in view of over 30 years' experience in this work, our advice should be valuable. Our Pamphlets and Book of References will be sent postpaid and free of all charge, on request.

The McLain Orthopedic Sanitarium
901 Subsect Avenue, St. Louis, Mo.



SUGAR

25lbs 98¢

25 lbs. best Granulated Cane Sugar for 98¢ when ordered with other money-saving Larkin Groceries, such as flour, coffee, tea, canned vegetables, dried vegetables, ham, bacon, fish, cereals, crackers, preserved fruits, relishes, confectionery; laundry and toilet supplies of all kinds.

GROCERY BOOK FREE

Send a letter or postal today for your free copy. Just say, "Send me free a copy of Groceries Book No. 11555."

Larkin Co. CHICAGO OR PEORIA, ILL.

Beacon Burner FREE

FITS YOUR OLD LAMP.

100 Candle Power Incandescent pure white light from (karosene) coal oil. Beats either gas or electricity. COSTS ONLY A CENT FOR 6 HOURS.

Write to us today for a special offer to secure a Beacon Burner FREE. Write today. AGENTS WANTED.

HOME SUPPLY CO., 24 Home Bldg., Kansas City, Mo.

Building Plans

Let me help with your building problems. I specialize in buildings for the Farmer, Dairyman or Stockman. If you are going to build a house or barn, let me hear from you before definite arrangements are made. Will show by sketches and estimates that I can save you in many ways. References in all parts of the U. S. and Canada. Write to Boston Steele, Architect and Engineer, Halstead, Kan.

EARN this ROCKER

We Give

This Fine Upholstered ROCKER For Selling Only 30

7-Bar Boxes of Highest Grade Toilet Soap at 50¢ Per Box.

NO CASH Required

Just sign the Coupon below, giving references and we will send you the 30 boxes of Soap together with the Rocker, and allow you thirty days to sell the Soap before sending payment. We guarantee satisfaction. If shipment is not satisfactory, it can be returned at our expense.

CROFTS & REED CO., CHICAGO

CROFTS & REED CO., Dept. B 57 Chicago, Ill.

Please ship to my address 30 7-bar boxes of Amortized Soap and Rocker No. 9623. I agree to sell the soap at 50¢ a box and send you \$15.00 within 30 days.

Name _____
Street Address _____
Post Office _____
State _____

Give two business references below.

HOME DRESSMAKING

These patterns may be had at 10 cents each from the Farmers Mail and Breeze.

A ladies' shirt waist which closes in the front and may be worn with either a high or low neck, is shown in No. 7017. It is cut in sizes 34 to 44 inches bust measure.

Ladies' four-gored skirt No. 7006 may be made with either a high waistline



or with the regulation waist and a separate belt. It is cut in sizes 22 to 32 inches waist measure.

The popular new circular skirt joined to a yoke in the back is a feature of ladies' dress 7021. The waist is cut with yoke and sleeves in one piece.

The boys' shirtwaist suit 7020 is cut in sizes 4, 6, 8, 10 and 12 years. Wash material can be used for the blouse and woolen material for the trousers.

Girls' coat 7037 has an attached circular skirt. It is cut in sizes 6, 8, 10, 12 and 14 years.

USE THIS COUPON FOR PATTERN ORDERS.

The Farmers Mail and Breeze, Pattern Department, Topeka, Kan.

Dear Sir—Enclosed find _____ cents, for which send me the following patterns:

Pattern No. Size

Pattern No. Size

Pattern No. Size

Name

Postoffice

State

R. F. D. or St. No.

BE SURE TO GIVE NUMBER AND SIZE.

Colds That Aren't Caught

BY PEARL CHENOWETH.

The family which suffers most from colds is the family afraid of night air and sleeping with closed windows. As we learn more about germs and some other things we know that breathing cold air cannot produce a cold. In the region of the north pole colds are absolutely unknown.

Next to keeping open windows, the best way to ward off a cold is to stay in the open air as much as possible. Doc-

tors tell us that colds are produced by germs, which develop in close, warm rooms. Says Dr. William Brady, "When it comes to fondness for the hearthstone, the microbe of the simple cold is as domestic as any tabby that ever purred."

Sudden changes in weather do not produce colds, either, much as we have been pleased to believe so. Scientists tell us, and we common people have no reason to disbelieve their word, that a cold is an infectious disorder carried around by human beings, who pass it on to their associates free of charge. If you take cold it is because your system is so run down you cannot resist the cold germs. When you do not take cold, it is because there is no one to bring the germs to you, or your system is in such a good condition they cannot get in their work.

The average doctor smiles "inside" when a patient begins to tell him how he took cold—cold draft, haircut, forgotten rubbers, change of weather. It wouldn't hurt him to disseminate a little useful knowledge, but for reasons of his own, he prefers not to.

The usual opinion of "catching cold" is a cumulative delusion. Get over it. Try the open window stunt. Sooner or later you will have to admit the truth of the germ theory and understand that a cold is transmitted through personal contact. Isolate the person suffering from a cold just the same as if it were measles. If you wish to avoid the common cold, "sidestep the cold carrier."

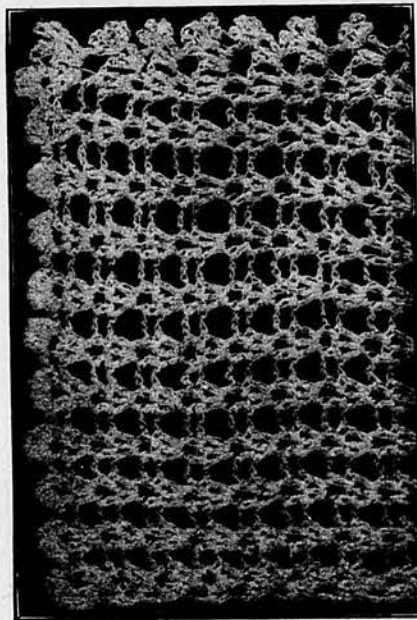
Collar For a Winter's Day

Most women are wearing V necks and turndown collars, this winter, or bits of lace or velvet that stand up at the back of the neck. But on very cold days one wants something warmer; and for such occasions nothing is more satisfactory than a crocheted collar, well boned to keep it in place. These collars fit neatly, launder well, and are much more comfortable than stiff, starched collars. They are selling in the shops for 50 or 75 cents each. The pattern may be of Irish crochet or one of more simple design. The collar illustrated is easy to make. Number 40 thread was used for it. Begin with a row of chain 57, turn.

1st Row—1 sc in second st from hook; ch 3, skip 3, fasten; ch 2, skip 2, fasten; ch 3, skip 3, fasten; repeat across; turn

2nd Row—Ch 2; 1 dc under 2 ch, ch 1; 1 dc under same 2 ch, ch 1; 1 dc under same 2 ch, ch 1; 1 dc under next 2 ch, ch 1; 1 dc under same 2 ch, ch 1; 1 dc under same 2 ch, ch 1; ch 1 and repeat across; turn.

3rd Row—Ch 1; 1 sc between last 2 dc, ch 2, 1 dc between the same two dc,



Design For Shirtwaist Collar.

ch 2; 1 sc under same two dc, ch 3; fasten between next two dc of next group; ch 2; fasten between next two dc of same group; chain 3 and repeat across; turn.

4th Row—Same as third row. Make the collar the desired length, finishing with a row like the fourth row, ch 1, turn.

Scallop on Edge—1 sc under 2 ch, 2 dc under same, 1 sc under same; 1 sc under 3 ch; repeat across.

Soot on the Carpet

When the stovepipe falls and scatters soot over the carpet, do not attempt to

To put it at once into Half a Million Farm Homes



THE COUNTRY GENTLEMAN

The big \$1.50 farm paper, will be mailed to you 3 months—

13 Weeks—25 Cents

THE COUNTRY GENTLEMAN treats farming as a business—not only growing stuff, but selling it at a profit—the chief end of any business.

These 13 issues, for 25 cents, would make a book of nearly 1,000,000 words and 800 illustrations, covering more than 500 farm subjects, divided about as follows:

General Farming	95	Articles
Livestock	75	"
Marketing, Management and Finance	60	"
Buildings, Equipment and Labor	45	"
Poultry	55	"
Vegetables, Flowers	60	"
Dairying	25	"
Orchards and Trees	45	"
Rural Social Life	25	"
Home Making	55	"

Free Personal Service

Any farm question that puzzles a reader of THE COUNTRY GENTLEMAN will be answered personally and promptly by mail. More than 100 practical experts are at our call to render this free personal service.

3 MONTHS (13 ISSUES)

25c

THE CURTIS PUBLISHING COMPANY, Box 410, Philadelphia

Name _____ P. O. Address _____

Mail to us _____ R. F. D. Route _____ and start at _____

PASTE 25c HERE (In Canada 50c.)

sweep it up. The broom grinds it in of a carpet, fan the soot on the hard deeper, making it impossible to get out. Tack several papers in the center of the room and carefully fan the soot particles up on the paper, which can then be rolled up and burned. If it is a rug instead I once saved a new Axminster velvet rug by this simple method.

Mrs. J. M. Brady, R. 2, Braymer, Mo.

MIX YOUR OWN FEED



ONE BARREL FREE

For Your Opinion of BLISSFED DO YOU USE IT? HOW DO YOU PREPARE YOUR FEED WITH IT? What Results Do You Get?

We are preparing a new booklet on BLISSFED Stockfeeding molasses. It will tell the best methods of feeding stock; the food value of BLISSFED as compared to grain and roughage; and a great deal of information of value to farmers and stockfeeders. We will send one of these booklets to every farmer, feeder and dealer who answers this advertisement.

Special Offer
If you have used BLISSFED, write and tell us what you think of it; how you prepare your feed with it; and how it compares in food-value to corn, oats, bran, timothy, clover and alfalfa. Also tell us how it benefits the stock you have fed with it.

To the user of BLISSFED who sends us the best letter on its value as a stockfeed we will send **ONE BARREL OF BLISSFED FREE**, all freight charges prepaid.

We don't care for polished, technical language nor fancy handwriting. Just write us as you would tell your neighbor about it. Have your letter in before Feb. 15, 1915.

BLISS SYRUP REFINING CO.
Station A, KANSAS CITY

Get These Money Saving Separators



Send for most valuable Separator Book ever published. Experts tell best methods of separating—gives actual tests. Tells how proper separating gives you 25 to 35 more on every cow. Illustrates and describes the

Great Western

The separator that obtains practically every globule of butter fat by following nature's law—cream from top, milk from bottom. Original low tank, high crank machine. Saves back breaking, lifting and turning. Finest imported ball bearings. Self-dumping bowl, most sanitary construction. Easiest to clean.

Try it on our liberal free trial offer. Send for book. Every feature shown by pictures. Address **ROCK ISLAND PLOW CO.** 235C Second Ave. Rock Island, Ill.

STANDARD AMERICAN EVERYWHERE

Well Drilling Machines

Have a Business

of your own and clear \$15 to \$20 or more a day with our well drilling machines. Many men earn big incomes with some one of our 59 styles and sizes. Use any power. Made for drilling earth, rock and for mineral prospecting. Specially adapted to boring wells for irrigation. Standard for 46 years, all over the world. Large catalogue No. 120 FREE.

THE AMERICAN WELL WORKS
General Office and Works: AURORA, ILL.
Chicago Office: First National Bank Building

Buy it now

The suffering of thousands of families this Winter will be stopped if we farmers will buy, now, instead of waiting 'till Spring.

The Joy of Living
CHARLES DILLON

Most men, I believe, have their own private conception of what we call the joy of living. Some look forward to the day of rest and quiet when, the children having married and gone their ways, the originators of the family shall pass the remaining years together, staying up as late as they wish, sleeping as long as they care to, reading the books they have longed for years to read, and singing at evening the old songs with no one to smile if voices crack. Such dreams vary only with the environment one lives. In my own case I hope for all these things, but in addition I crave the boon of independence before I am too old to care. We hear much about independence but we seldom encounter it. John D. Rockefeller is not independent, with all his millions. Carnegie is not independent. The man who takes high public office, no matter how much he may declare and declaim, is not independent. In the quiet of his bed chamber he knows it. Somewhere there is a power that pulls the strings, that cracks the whip.

But look at Ed Howe—Howe of Potato Hill! Once upon a time, before I was much concerned about birthday anniversaries, I imagined that no newspaper toiler could have a better job than that of head-writer for the Atchison Globe, there seemed to be so little to do. But I have been reading Ed Howe's Monthly the last year or so and now I can imagine no earthly bliss-like unto that of writing as Howe writes, precisely what one thinks about men and things, within the law, and daring any copy reader to touch it. Think of getting out a paper with no advertisements in it! Think of saying whatever you hod-bing please, and think of actually printing it!

Sometimes, when everything goes wrong; when the advertising manager says the editorial department wins the butterdish and the Nareissus spoons and the telescope and the sewing awl for solid, so-help-to-goodness boneheadedness; when some man in Massachusetts cusses me because I decline to boost his especial product when I don't believe the farmers of Kansas need it, I write editorials and letters I know will have to be killed in the morning; but I write them to give myself the Ed Howe feeling of independence and don't-care-a-whoopness which comes, I know, to mighty few men in this world.

How he must enjoy his life! I've been entertained at Potato Hill. It was long ago. Someone in Atchison had committed suicide—not because of the town, mind you. He had come from Leavenworth I believe. Atchison is my ideal of everything desirable, next to Manhattan. But, anyway, someone who had destroyed himself gave me a chance to see Potato Hill, to meet its master and look out across the finest view of valley and farms and peaceful homes to be seen this side of kingdom come. Books and easy chairs on a shady porch and a pipe and friends and the knowledge that he was doing just what he wished to do! The singing of many hens crooning, I suppose about the eggs to come; the strident yawns of guinea fowls; a warning of hawk Zeppelins overhead; the bawling of a calf and the tinkling of a cow bell in the distance; the rustle of the wind among the corn not far away! Who, with brains and contemplative mind, would not choose such days after a quarter century's newspaper work? I suppose Ed Howe has a cross to bear, as most of us have, but he carries it through mighty pleasant fields.

But I do wish Howe had not changed his Monthly into five columns, newspaper size. I used to carry his little book for days at a time. I read it in street cars and hotels and cabs and other lonesome spots. I don't do that now. It's too big. But, you see, Ed Howe is independent. He does whatever he hod-bing pleases. And I wish I could.

Sometime when I'm worn out with planning papers and plotting plots and pestering the foreman of the composing room I'm going back to Potato Hill with a pipe and a can of 'baccy, to talk shop with the Mawster who writes as he wishes and wanders wherever he will

The Strength of Iron
BY A. CAMMACK.

Numerous tests of iron and steel at temperatures varying from below zero to 1,600 degrees above zero Fahrenheit, show that for ordinary atmospheric changes of temperature in any climate, the ultimate strength is not affected. Tests on various grades of iron and steel show that for an increase in temperature of from zero to 500 degrees F., the average tensile strength is practically unchanged. As the temperature rises above 500 degrees F. the strength decreases rapidly, excepting in cast iron, which does not weaken much below 900 degrees F.

Although cold does not seem to affect the ultimate strength of iron or steel, it does seem to affect the shock-resisting qualities of these materials. The frequent breakage of railroad steel rails and car axles in severe cold weather has led to investigation and tests along this line.

These tests seem to show that cold reduces, to a considerable extent, the flexibility and shock-resisting qualities of the steel used. In some of these tests on car axles the flexibility and strength to resist shocks decreases 58 per cent with a drop in temperature from 100 degrees to zero degrees F. When steel has severe use and is subjected to vibrations and shocks, the effect of cold is more likely to cause trouble.

Softening Cast Iron
BY S. I. ROSS.

Some cast iron is chilled in the process of making until it is almost impossible to drill or work it in any way.

Missouri has found that the redlight district is a country problem as well as a city problem. Most of the recruits for prostitution come from country towns. Many are victimized unwittingly. The result of this knowledge is a general movement to banish these traps and pitfalls which lead to life-long shame and misery. Missouri's big cities which have been hotbeds of vice and disease ever since frontier days are now preparing to clean out their vice districts with an abatement law which reaches the property owner who rents his building for an immoral resort. The permanent injunction is the big stick which vice promoters cannot dodge.

This may be very easily overcome by treating it in the following way. Take the cast iron and heat it to a little above a cherry red, take it from the fire and place a piece of sulphur on the place to be drilled. If the iron gets too cold place it on the fire again, just keeping it above a cherry red. Continue to throw sulphur on it until it becomes soft enough to drill.

Cast iron may be hardened in the following way: Heat it to a cherry red, then sprinkle it with cyanide of potassium. Then heat the iron again to a little above a red. The iron should then be dipped in water and cooled.

A rod treated in this way should be hard enough to resist the cut of a file and upon breaking it should show that the hardening has penetrated to the interior. The file should not cut the interior any easier than it did the outside.

Wrought iron may also be case hardened in the same way.

When You Lay Metal Roofing

When you are laying V-crimped galvanized roofing begin at the lower corner of the eaves and end of the building, and lay the sheets from the eaves to the ridge, nailing through the crimp every 8 inches. At the end laps, use 4 nails to the lap. For best results with steel sheet shingles, you need a tight roof. If it is to be laid on an old wood shingle roof, remove the old shingles. The ends of the sheets are lapped over the first course of the shingles. To lay, begin at the left hand corner of the eaves and end of the roof, and lay the sheets from the eaves to the ridge, nailing through the crimp. Nail all end laps.

M. B. Sherwood.

You Can't Beat Galloway Prices and Quality

My New Low Down No. 3 Spreader
with cut under front wheels and trussed channel steel frame is positively the best spreader in the world. Light draft, endless apron, positive force feed, double chain drive. Just ask for my book, "A Streak of Gold," FREE, and I will tell you the truth about manure spreaders and how to get the greatest profit out of your manure products.

Now Sanitary Cream Separator
I will send it anywhere in the United States without an expert to set it up to any inexperienced cream separator user.

Spreaders \$64.75 up
for a 30-day free trial, to test thoroughly against any make of separator that even sells for twice as much and will let you be the judge. Built up to a high standard and set down to a low price. Travel 25,000 miles, look over every factory in the world and you can't find its superior at any price. It's the most sanitary, most scientific, cleanest skimmer, the most beautiful in design of any cream separator made today and I have seen them all. A postal gets our big free Separator catalog and 1915 sliding scale, profit-sharing price schedule.

GALLOWAY MASTERPIECE BIG 6
Positively supreme in power, simplicity and design. All our years of engine building are built into this mechanical masterpiece. Long life and satisfaction to engine users are built into every one of these Galloway Masterpiece Big Six Engines. Great volume, perfected design and simplicity are what make this price possible. A heavy weight, heavy duty, large bore and long stroke engine not overrated. Get right an engine before you buy. Get my free engine book before you buy an engine at any price.

Wm. Galloway,
President,
The Wm. Galloway Co.,
47 Galloway Station
Waterloo, Iowa

Here Is the Biggest Piece of News in the History of Cream Separators

The selling of separators now revolutionized by this great offer. You can now get the finest made and best designed machine ever built—the new National. No excuse to buy a cheap machine. You can get the new National with the marvelous Vortepoon one-piece skimming device with no actual outlay of money.

No Cost to You

Write for particulars of this history-making offer. Get full particulars of the marvelous Vortepoon. This no-cost offer is strictly limited. Write quick and get it in your hands. You can do it by sending your name and address now. Ask for our no-cost-to-you offer. Write today—now.

National Dairy Machine Co., Dept. 2616, Cobden, Ind.

Get The Latest Modern Silage Methods

Only 10c

Tells you all there is to know about present-day silage feeding—how to build silos. Gives reliable and unbiased facts (we do not sell silos) on every silo built—home made—stave, hoop and octagonal silos—pat. brick, tile, cement, concrete silos—all modifications. Also covers every crop used for silage—41 of them. Here's an entirely new book—264 pages—better than former copies used as text books in colleges. Copyrighted November, 1914. Ten page index. We send it for 10c coin or stamps. Send for this new copy today.

Silver's "Ohio" Silo Filler

Write for catalog and booklet "Silo Filler Logic" which we send free. Enclose 10c and we send "Modern Silage Methods" with them.

The Silver Mfg. Co.,
348 Broadway, Salem, O.

Get It Now!

Write for book about

- The Hinge-Door Silo
- The Lancing Silo
- The Chicken Silo
- The Silberzahn
- Ensilage Cutter

Beatrice Creamery Co.
Dept. 27
Topeka, Kans.
Denver, Colo.
Oklahoma City, Okla.

Don't go to bed these cold nights without knowing that the stock are all under shelter and well bedded.

Here's the Barn to Build

Self Supporting Gambrel Roof Has Many Advantages Over the Kind Supported With Posts—Construction Hints

WHENEVER you build a barn or any other kind of building, you build for a definite purpose. Whether it be for properly housing and caring for livestock; to store feed and farm implements; to prepare products for market, or for a combination of some of these, it should be built with the right amount of floor space for every purpose, the total of which will determine the size of the building.

This rule seems simple, but sometimes becomes very complicated when the question of economical construction is taken into consideration. For example, a barn 40 feet square would have a floor area of 1,600 square feet, and may be of the proper size and meet all the requirements for which it is intended. At the same time it may be that a building 32 by 50 feet, which has the same floor area, also will meet the same requirements, and cost less on account of not requiring such heavy construction for a 32-foot span as would be necessary for a 40-foot span. It is on such points as these that the practical builder and trained architect, thoroughly versed in the requirements of modern farm buildings, can be of great service to the farmer.

Every barn should be an individual study. It should comfortably and economically hold the livestock, feed, bedding, and all articles. The construction should be such that it will resist the weather and be permanent. It should be as fire-resisting as the financial investment will admit. It should be free of all unnecessary posts and other structural members that would interfere with the convenient and economical handling of materials, stock, products and by-products.

Cow comfort receives much attention because practical tests have demonstrated that an improvement giving comfort and making the cows contented is a good investment. Too much thought and study cannot be given to the construction, arrangement and equipment of the barn for the comfort and profit of the herd.

The illustration shown here gives an idea of the construction of a favorite type of modern dairy barn which consists of a frame structure, the frame of which is built entirely out of planking not more than 2 inches in thickness, and built on a concrete foundation which extends far enough above the floor and outside ground level to prevent moisture from coming into contact with the wood sill and frame.

The sill should be well bolted on the top of the concrete foundation. The studding are 2 by 6-inch for barns of ordinary dimensions, and spaced 10 inches or 24 inches on center, the 24-inch spacing being preferred because any stock length of boards can be nailed to them without waste. The studding are generally of 14 or 16 feet long and have a doubled 2-inch by 6-inch plate spiked on top, which ties them together,

er, keeps them in a straight line and forms a sill for the rafters.

The floor joists of the hay mow floor are made of 2 by 8 or 2 by 10-inch joists, as the weight may require, and are spaced the same as the studding so that the end of each joist may be spiked against the side of the studding and at the same time rest on a 2 by 6 ledger or "ribbon" which is notched 1 inch into the studding and continues the full length of both side walls with as few joints as possible. Three lengths of joist generally are required to reach from one side of the barn to the other. The ends of the middle tier of joists are spiked and lapped against the inside ends of the two outer tier so that each set of joists forms a continuous tie from one side wall to the other, to take up the outward thrust of the roof. The joists are supported under the lapped ends on a set of girders, built of three or four thicknesses of 2 by 10 or 2 by 12-inch joists.

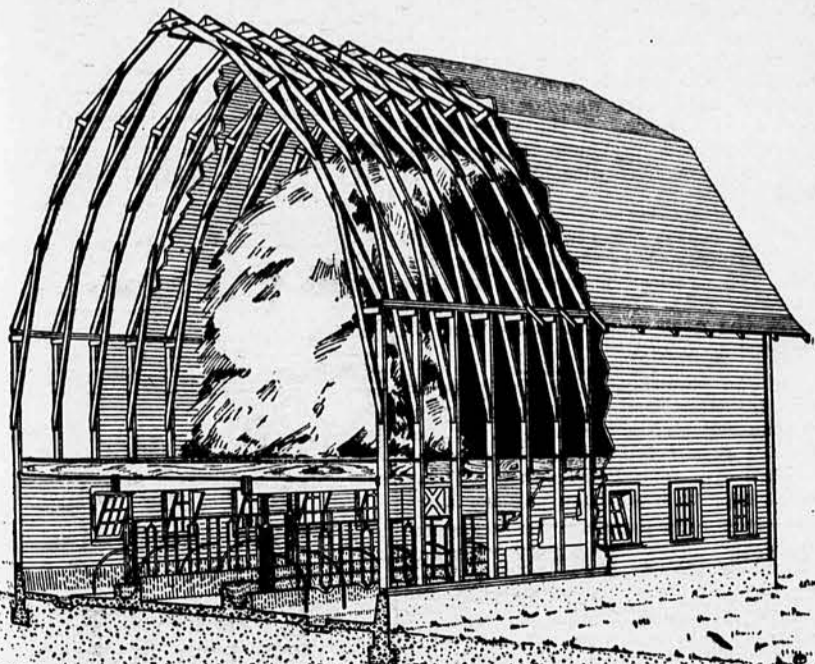
The floor beams are supported by posts or iron columns so spaced that they will intersect with the line of stanchions and the partitions between the stalls, and rest on concrete piers built below the concrete floor.

As this article is written more particularly for the inexperienced builder, it is well to mention that as soon as the studding are set in place, they should be braced against wind, and as soon as the joists are in place more braces should be added. These braces should remain until the siding is in place and the roof has been completed; then they may be taken out.

In framing the roof one set of rafters is carefully laid out on the hay mow floor or other convenient level platform, and after the exact length of each piece is computed, these are used as patterns and the required number of pieces cut from this one set of patterns. When all rafters, braces, ties and collar beams have been cut, each set is spiked together so as to form a complete arch rib which will reach from the plate of one side wall to that of the other.

The best method of procedure is to build all these arches laid flat, one on top of the other, the ends of each arch resting on the wall plates at the point where it is to be secured after it is raised to a vertical position.

After all of the arches are completed the end arch is hoisted to a vertical line, perfectly plumbed, well spiked into place, and well braced. A block and rope are hooked to the collar beam of the arch that is in place, and with this the next arch is hoisted, plumbed, and nailed in place. This method is continued until all are in place. Each arch is nailed to several sheathing boards that are used as guides and ties to secure the arches as soon as they are raised, and each arch is braced to the studding as soon as set in place.



Construction of a Modern Dairy Barn Equipped With Large Hay Mow—Illustration by Loudon Machinery Company, Fairfield, Iowa.



DE LAVAL BUTTER

Best as Usual
at the great 1914
National Dairy Show

BUTTER made from cream separated by De Laval Separators made the usual clean sweep of all highest awards at the great National Dairy Show held in Chicago in October 1914, as it has always done at every convention of the National Buttermakers Association or a Dairy Show since the beginning of these important annual contests in 1892.

The Sweepstakes and Gold Medal awards in the various classes were as follows:

Whole Milk Creamery Butter

The highest award in the Whole Milk Creamery Butter Class was made to Thomas Sadler, of Oelwein, Iowa, upon butter made with a De Laval Power or Factory Separator—score, 96½.

Gathered Cream Creamery Butter

The highest award in the important Gathered Cream Creamery Butter Class

was made to the United Dairy Co., of Chicago, which uses both De Laval Separators and Milk Clarifiers, the prize winning butter being made from cream gathered mainly from farm users of De Laval Hand Separators—score, 96¼.

Farm Dairy Butter

The highest award in the Farm Dairy or Home-Made Butter Class was made to Austin C. Higgins, of Andover, Mass., who happily is not only a De Laval user but a De Laval Local Agent—score, 96.

De Laval Superiority Indisputable

Aside from the Sweepstakes and Gold Medal awards in all classes, the great majority of all other awards and higher scores were likewise given to De Laval users, again overwhelmingly demonstrating the superiority of De Laval dairy products, as at every important quality contest the world over for more than thirty years.

The reasons for the superiority of the De Laval on the farm and in the creamery, will be made plain by a De Laval catalog which will be mailed upon request.

The De Laval Separator Co., 165 Broadway, New York
29 E. Madison St., Chicago
50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

When the North Wind Doth Blow

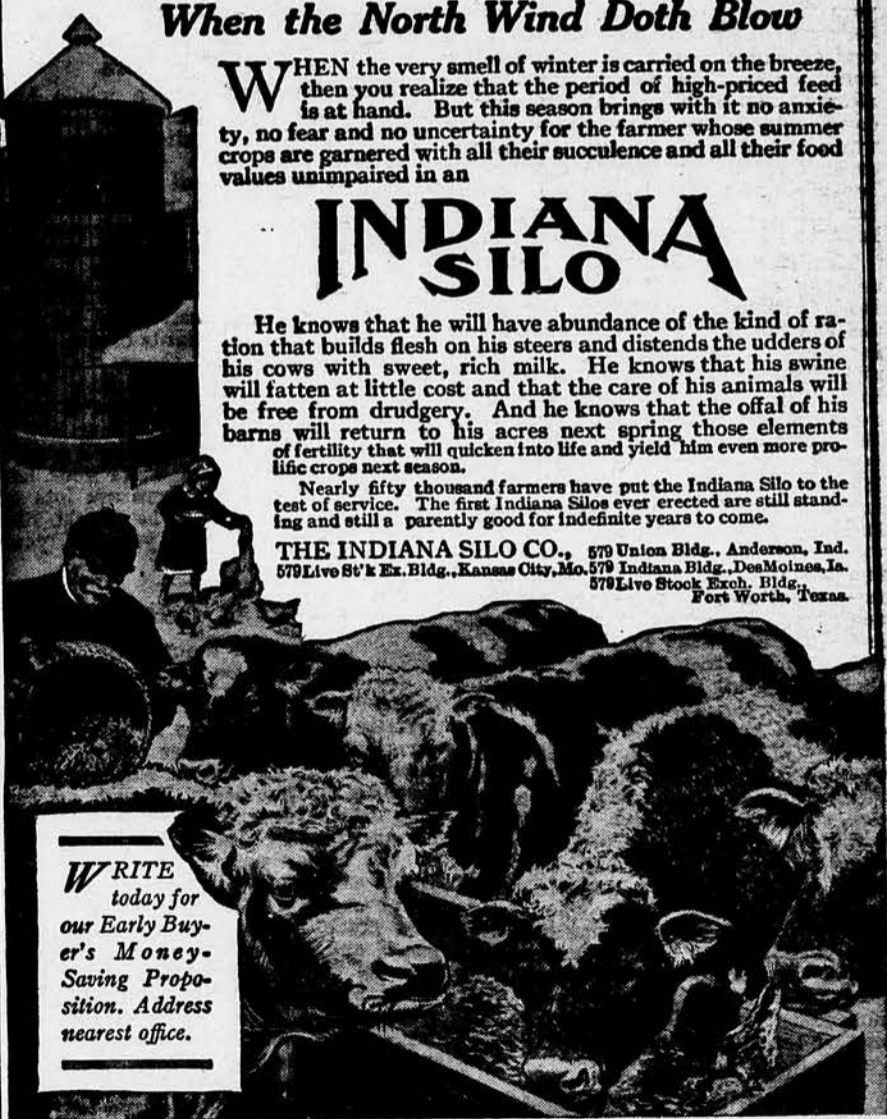
WHEN the very smell of winter is carried on the breeze, then you realize that the period of high-priced feed is at hand. But this season brings with it no anxiety, no fear and no uncertainty for the farmer whose summer crops are garnered with all their succulence and all their food values unimpaired in an

INDIANA SILO

He knows that he will have abundance of the kind of ration that builds flesh on his steers and distends the udders of his cows with sweet, rich milk. He knows that his swine will fatten at little cost and that the care of his animals will be free from drudgery. And he knows that the offal of his barns will return to his acres next spring those elements of fertility that will quicken into life and yield him even more prolific crops next season.

Nearly fifty thousand farmers have put the Indiana Silo to the test of service. The first Indiana Silos ever erected are still standing and still a parently good for indefinite years to come.

THE INDIANA SILO CO., 579 Union Bldg., Anderson, Ind.
579 Live St'k Ex. Bldg., Kansas City, Mo. 579 Indiana Bldg., Des Moines, Ia.
579 Live Stock Exch. Bldg., Fort Worth, Texas.



WRITE
today for
our Early Buyer's Money-Saving Proposition. Address nearest office.

EARN COST THEN PAY.
TILE SILO.
Chain of Kilns; Atlantic to Rio Grande
Reduces freight cost; fire and frost-proof; weight anchors built; simple language instructions; priced at your terms; 5 year guarantee; free sample.
Kalamazoo Tile & Silo Co., Kalamazoo, Mich.

We Make Good Cuts!

The Mail and Breeze has the most complete plant in Kansas for the making of first class half-tone engravings and zinc etchings. Particular attention given to livestock and poultry illustrations for letterheads, newspaper advertisements and catalogues. Our cuts cannot be excelled and are guaranteed satisfactory. Lowest prices consistent with good work. Write for information.
THE MAIL AND BREEZE, Topeka, Kan.

Let's Tell About Our Pets

Read This Story, Then Write a Letter About Yours

BY MARY CATHERINE WILLIAMS

THIS is a story for boys and girls who like pets. If you aren't one of that sort, you'd better stop reading right away and study your history or work your arithmetic problems for Monday, for you'll not be interested one bit. But if you have a kitten or a dog that does tricks, or a pony all your own that you ride to school, or a pet squirrel or even only a tame chicken, or any other pet that you love because it is alive and likes to be stroked and petted and can love you too, then settle down comfortably in your chair near the lamp and read the story all through. I'm going to tell you about the pets I used to have when I was a girl on the farm, and then I'm going to give you a chance to tell me and all the boys and girls who read this page in the Farmers Mail and Breeze about your pets.

Can you guess what my pets were? Cats, of course. That was easy. Girls always like kittens better than almost anything else; at least most girls I know do. Boys like so many, many kinds of pets it would have taken lots longer to guess for them. I didn't have just one lonesome little kitten, either. We had so many, many cats at our house that Uncle Bert used to call our farm the "cat ranch." Sometimes we had twenty all at once—big cats and little cats, sleepy old cats and frisky young kittens, and white cats and gray cats, and black cats; but we children loved them all and had names for every one.

The Mother Cat.

First, there was Fritsie, the "old mother cat." She had brought up so many kittens in the way they should go and taught them to wash their faces and keep their whiskers combed and drink milk without spilling it over their best fur collars, and say "Meow," which means "Please" in cat language, when they wanted their dinners, and purr "Thank you, ma'am," when somebody petted them or gave them a bone, that she didn't have time or patience for much playing. She thought it was much nicer to slip into the kitchen and lie down behind the stove where it was warm and comfortable and we children couldn't reach her. Fritsie was always hunting warm places. Once we found her curled up in the oven when somebody had left the door partly open.

Then there was Pink-Nose. Isn't that a funny name? This kitty stayed out too late one cold, cold winter night when the thermometer was, dear knows how far down below zero, and Jack Frost nipped the end of her nose so that the little short fur on the tip top of it came off and left her little nose pink. Murmur Not was another kitten that earned its name, but in a different way. It came from a song we sang at Sunday school, "Wait and murmur not." Maybe you've sung it, too. Something was always happening to that poor kitten, but it never made the least bit of fuss about anything. Why, one time mother had been making cottage cheese and when she went to lift a crock of scalding milk from the stove, her hand slipped and all that hot milk spilled down over the kitten. It never cried even once, but just got right down to business licking up milk, so that is why we named it Murmur Not. Don't you think that was a good name? Laz'ness was another good kitten but oh, she was lazy. She was the prettiest little round gray and white ball that ever curled up on a cushion, and she would eat the queerest things! She always watched for the boys to bring home the cows in the summer time so she could eat the big fat horse-flies Dick would catch on them and give her. Laz'ness liked muskmelon, too. Did you ever know of another cat that would eat muskmelon? I never did.

Evil Spirit's Funeral.

Once we had a cat named Evil Spirit. We read so many fairy tales when we were little that we half way believed in witches and goblins and good and bad fairies, and we thought there must be an evil spirit in this cat. Wasn't that silly? Let me tell you how it happened. Our kitty wasn't called Evil Spirit at first. It played as nicely as any well behaved cat should, till all of a sudden

one day it had a fit. You should have seen how that cat whirled and spun around and around the room like a queer sort of merry-go-round. Then all at once it stopped very still and fell over just as if it were dead. Mother got the broom and pushed it out doors and it lay still so long we decided we'd have to bury it. I got my newest cigar box to put kitty in, and Billy hauled it in his little wagon while Dick dug the grave with the coal shovel and Bess picked some flowers to lay over it. It was getting half dusk, so we had to hurry a little. We girls were chief mourners and followed the little wagon out to the grave. Just as Dick laid the box in the hole he had dug, while the rest of us stood around trying to look very solemn, out jumped the cat from the box and scampered away. Scared? Well, I guess we were; even Dick, who wasn't afraid of bears or Indians or big dogs or wild cattle or 'most anything else. The funeral party broke up in a hurry and all the mourners ran into the house without even stopping to bring in the shovel. Do you blame us for naming that cat Evil Spirit?

We used to have all sorts of fun with our cats. On cold days when we couldn't go out doors to play mother would let us bring some of our kittens in the house for a while. Then we would make a tent out of chairs and shawls and quilts so that no light could come inside, and take the cats in with us to watch their eyes shine in the dark or rub their fur to make sparks come. Sometimes if the cats were very cold when they came in, and we rubbed hard, we could feel a tiny electric shock from the fur. Have you ever tried that? Of course we used to dress the cats in doll clothes lots of times. Every girl does that. And we used to tie paper shoes on the cat's feet and watch it lift up one foot at a time and try to shake off the shoes in such a funny way it would set us all laughing.

Now It's Your Turn.

There, I've told you a whole long story about my pets. Let's see who will be the first to write a letter about his pets. We want to know what your pets are and what tricks they can do and what you have named them and what they look like. Fifty cents will be given the boy or girl who writes the best letter before January 30, and to the one who sends in the next best letter a post card reflector will be sent that will reflect post cards or any other pictures on a sheet in the way a magic lantern does it. For every other letter that can be printed a package of post-cards will be sent. Address your letters to the Children's Page of the Farmers Mail and Breeze. And write your letters soon, please, for there are lots of other boys and girls who would like to get acquainted with you and your animal friends.

Bob White Is Your Friend

BY L. D. WOOSTER,
Fort Hays Normal.

Bob White is one of the best friends farmers have. He does not desert the farm when cold weather comes, as so many birds with sweeter songs or finer feathers do, but stays through all the long winter destroying weed seed and harmful insects. During the six months of the colder part of the year, Bob White eats more than an ounce of weed seed every day. That may not seem like very much, but suppose you take your pencil and figure a moment. If there were 10 quail to every square mile in the state, the Bob White family in Kansas would eat 25 tons of weed seed every day. In six months the amount of seed eaten would reach 4,500 tons. Begins to sound important, doesn't it? Imagine a ton of coal, and then picture to yourself the pile that 4,500 tons would make. You boys would have to hoe all summer even to begin to get rid of the weeds that many seed would make.

Bob White likes variety in his meals, so when he grows tired of weed seed he goes hunting down under dry grass roots and piles of rubbish till he finds a few chinch bugs or other harmful insects snugly asleep for the winter. Some-

times Bob White is accused of eating grain, but most of the little he does eat is wasted grain that never would be gathered anyway. The other isn't a very big salary for such a good worker as he, and he surely earns it. It is to the farmer's tremendous advantage to protect Bob White and his family in every way possible, for severe winters have diminished their numbers till in some parts of the state their cheery call is seldom or never heard. Put out some feed for the Bob Whites this winter. You will find the investment will pay.

An Ice Whirligig

BY F. ANNETTE JACKSON.

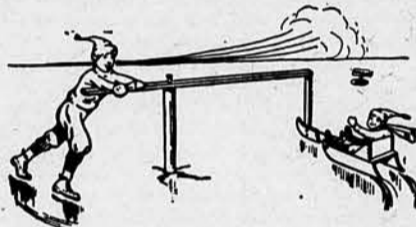
Grandfather was always making something new and useful for someone at our house and we, as children, never tired of following him around and watching him "tinker."

One day we saw him, with father, going down to the little pond near the house with a large post. What could they be going to do! Of course we went along to see.

Father pulled off his boots and stockings, rolled up his trousers, and with the post on his shoulder waded out to the middle of the pond. Then he pounded the post into the mud until it was firm and solid and standing about 4 feet above the water. A sharpened iron rod was then fastened in a hole in the top of the post.

We asked all sorts of questions but were told to wait till the pond froze and then we would find out.

Grandfather then began work on a long pole that father had brought from the woods. This he smoothed and squared and braced, boring a hole in it about 8 feet from one end and 14 feet from



The Sled Whizzed Around in a Circle.

the other. On the tip of the longer end he made a curved runner. How our curiosity was excited, and how we longed for the pond to freeze!

Cold weather came at last and the water froze. Then the two men took the long pole and placed it on the post, the rod forming a pivot on which the pole swung. The runner rested on the ice and we were told to take hold of the short handle. Father fastened our pretty sled to the runner and put Charlie on it. Then we pushed and the sled just whizzed around in a big circle.

What fun we had all winter with our "whirligig!" Sometimes one of us would stoop down and hold on to the runner and slide around, but our parents told us we must not do this for it wore out our shoes too fast.

It was a fine way to learn to skate, for one could hold to the pole while the others turned it, learning first to keep one's balance and then to take the stroke.

Other children were always coming out from town to play with the "whirligig" and it furnished us with amusement all winter when the ice was not too deeply covered with snow. I think we never as children had anything that gave us more exercise and pleasure than our "whirligig."

Do not crowd the growing stock. It is the surest way to develop roup. The chicks get overheated during the night and catch cold. Better let them roost out in the open than to keep them in too close quarters.

Are you going to allow the price of grain to cause you to underfeed your chickens? Better sell them now. It does not take a half-starved hen long to eat her head off. The well-fed hen will lay enough eggs to more than pay her keep.

FREE TO FARMERS

By special arrangement RATEKIN'S BIG 1915 CATALOGUE, with sample of SUDAN GRASS SEED, the most valuable new crop, will be mailed free to every reader of this paper who is interested in Garden, Farm and Field Seeds. Send along the names of your neighbors who buy Seeds. This book tells how to make the Farm and Garden pay. It is worth DOLLARS to all who plant or sow. Mention this paper. Address RATEKIN'S SEED HOUSE, Shenandoah, Ia.

Pull Out Stumps With the Famous Hercules!

Triple-Power
Pull an acre or more of stumps a day. Pull any stump in 5 minutes or less. Don't have longer land when it's so easy and cheap to pull the stumps out! Make 1000% profit by using the Hercules. \$1281.00 the first year on 40 acres! \$750.00 every year after. Let us prove it.

Low Price and Book Free!

Get the facts. Read our book. Tells what all steel, triple power means. Shows many features of the Hercules. Shows many photos and letters from owners. Postal will do.

HERCULES MFG. COMPANY
125-23rd St. Centerville, Iowa

MEN WANTED IN AUTO BUSINESS

Learn to Run and Repair Autos and Tractors by the "SWEENEY SYSTEM" of practical experience. Fit yourself in six weeks to earn from \$75 to \$150 per month. 2400 Successful Graduates.

FREE TRACTION COURSE

\$50 course given free. We teach the new self starters. No books used, we teach by practical work in our machine shop, garage and on the road. The finest and largest auto school in the world. Write today for new 64 page art catalog and free traction certificate.

Sweeney Auto School 1170 E. 15th St., Kansas City, Mo.

DRINK Schotten's Coffee

A Condensed Book of Science

DEALING IN A THOROUGH WAY WITH CLIMATIC AND CROP CONDITIONS

Indispensable to every farmer. It is the fruit of wide study and observation. By it you may know climatic conditions in advance from one year to another and through a cycle of 27 seasons. This is proved by statistics of crops which show the effect of planets in their several positions. The yields of wheat, corn and oats from 1866 to the present are given for reference.

Send one dollar, for a copy of the book, postpaid. Address Z. T. PELLEY, Tullis Court, Room 631, Kansas City, Mo.

DEATH TO HEAVES! NEWTON'S

STANDARD REMEDY

HEAVE, COUGHS, DISTRESS AND IMMEDIATE CURE. Cures Heaves by correcting the cause—Indigestion. Prevents Colic, Stagnation, Best Conditioner and Worm Expeller. Used by Veterinarians for 50 years. The first of its kind. Second \$1.00 can cures heaves. The third can is guaranteed to cure or money refunded. \$1.00 per can at dealers' or sent direct prepaid. Booklet free. THE NEWTON REMEDY COMPANY, Toledo, Ohio.

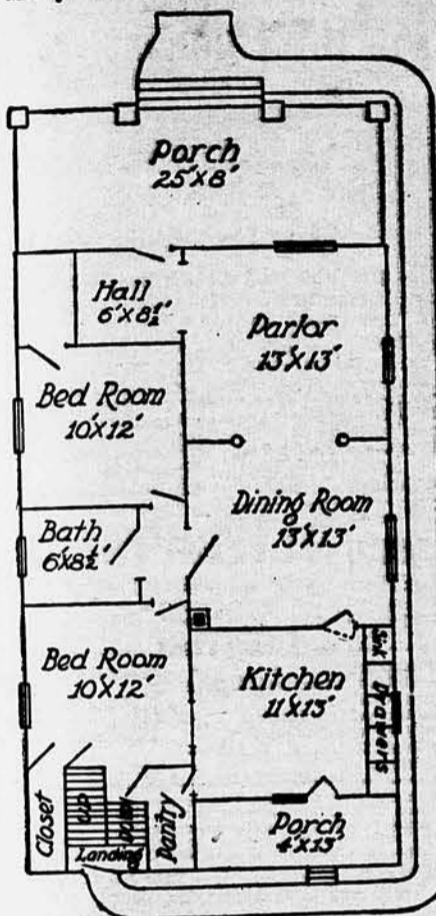
Buy it now

Don't buy what you don't need, but buy what you do need, now. It will put thousands of idle men at work who are suffering this Winter.

Here's a Simple Plan

BY MABEL E. GRAVES.

A house conveniently arranged and attractively finished is the Topeka home of Robert Zarse. The house faces the east, with a wide porch across the front and a narrower screened-in porch off from the kitchen at the rear. The front hall, the parlor and dining room are finished in oak—doorways, window casings and floors. The doors are of birch, made with two panels to a door. There is a swing door between kitchen and dining room, which makes it easy to pass from one to the other and yet shuts out odors of cooking



House Conveniently Arranged.

from the front part of the house. In the dining room two 3-foot windows are set side by side, in an extension 1 foot beyond the wall of the house, thus providing space for a window seat inside.

In the kitchen a set of drawers, built into the house, affords space for keeping the various tools needed about the cooking. These drawers, with the sink at one end, extend entirely across the south side of the room. The drawers are in four sections, or tiers. The two outer sections consist of two deep drawers, the two inside sections of three shallower drawers each. The total height of all these drawer sections is the same, and the top serves as a kitchen table, affording abundant space for the work that must be carried on there.

On the north side of the house are the two bedrooms, with bath room between. The bath room may be entered from either bedroom or from the dining room, a convenient arrangement. Off the front bedroom is a closet 3 by 6 feet. The rear bedroom has a closet 2½ by 8 feet. From the rear bedroom a stairway leads to the attic, and beneath it is the stairway to the basement, which may be entered either from the pantry or from the outside of house.

The pantry is 4½ by 8½ feet, and is lighted by a window in the west end. There is a work bench in this room, and shelves extend to the ceiling. The house is 44 by 26 feet, with a cement basement beneath the whole house. On the second floor there is space in front of the chimney for two large rooms. A hot air furnace supplies heat. The exterior of the house is painted a light gray, with dark gray trimmings. A cement walk extends around the house from front door to the basement door at the back. This house was built for \$2,500.

County Agents Have a Place

The county agent is a part of a great agricultural movement. This movement has for its ultimate purpose the build-

ing up of a country life that shall be wholesome, attractive, cultured, efficient and profitable. There are many sections of our country today that have one or more of these conditions, but the sections where all are found in happy union are comparatively few.

The desire of those who are thinking on rural problems is that rural communities everywhere shall be wholesome, attractive and cultured, and that each individual shall receive a fair reward for the labor done and the capital invested. The county agent has one dominant part in this program. While he may take other parts, his primary function is to help make agriculture efficient and profitable. This is his particular field and his first concern. Moreover, this is the chief cornerstone of the whole rural structure.

Work or Drudgery?

BY E. R. GROSS.

Many farmers are slow to adopt any new thing, slow to see its real advantage, afraid to try the thing lest it should fail. A small portable gasoline engine is no longer an experiment. Such an engine has proved itself a great time and labor saving machine for the busy farmer. Manufacturers in their zeal to tempt the prospective purchaser have adopted such names as: "Chore Boy," "Red and Ready" or "Sturdy Jack." Such names personify qualities which the engine is supposed to possess; and to a very large extent does display.

When a small, portable, well balanced engine of from 2½ to 4 horsepower can be purchased for from \$100 to \$150 there is little reason why farmers should not make much of their labor easier. These engines are now so well perfected that they will work with very little fastening to the ground, hence they can easily be taken from place to place for the various jobs for which their services are needed. Such work as running cream separators, pumping water, sawing wood, grinding feed, running washing machines, and many more equally undesirable chores about the farm may be made at least to approach the realm of things we find pleasure in doing if we have a willing form of power at hand.

Women drive a great many of our automobiles. If woman can run a gasoline engine for pleasure let her also lighten her load at home with power furnished by gasoline.

For More Rural Engineering

The increased use of agricultural machinery and the need of irrigation and drainage in many places have produced a demand for men familiar with engineering as well as with agriculture and rural life, according to A. A. Pot-

**FARM FOLK
By T. D. Hubbard**

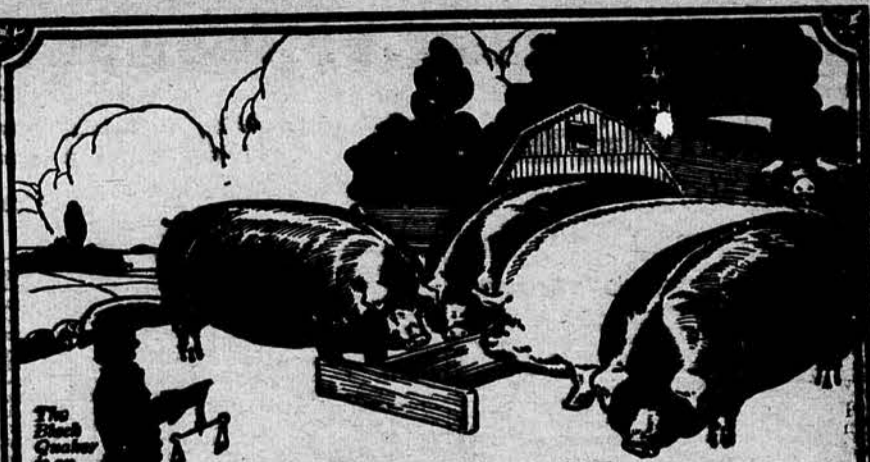
The largest asset on our Kansas farms is not the land nor the droves of livestock; it's the farm folks, the people who live in the open country where the best of health is possible; the rugged active body, the great generous heart; these are most supremely valuable to our great state.

The largest and most desirable thing in life is to be a fine all-round human being, strong of body and mind, big of heart, interested in all things that should interest human beings.

Properties are valuable only as they are accessory to this.

ter, dean of engineering in the Kansas Agricultural college. Mr. Potter spoke recently at the meeting of the Land Grant College Engineering association in Washington.

The Kansas Agricultural college offers work in agricultural engineering. Dean Potter explained the two methods in use there, one offering elective work in engineering to agricultural students, the other emphasizing engineering along specific agricultural lines such as irrigation and drainage engineering, flour mill engineering, and the study of farm machinery and motors. Agricultural engineering, he said, is still in the formative period.



Healthy Hogs

—as a rule—are found in cleanly pens; they eat out of cleanly troughs, kept free from worms by use of a remedial expelling agent and a good conditioner. Neglect to take these precautions result in sickness, disease attacking the entire lot and great losses.

Lewis' Lye

"The Standard for Over 50 Years"

has proved itself, time and again, the better agent for cleansing living quarters of hogs, as an exterminator of vermin, and greater aid in elimination of worms. As a conditioner it also has the recommendation of successful stockmen everywhere.

Send for booklet, treating on this subject and for many other uses of Lewis' Lye on Farm and in the Home. Address

PENNSYLVANIA SALT MFG. CO. Manufacturing Chemists PHILADELPHIA



\$15.95 SENT ON TRIAL UPWARD

AMERICAN CREAM SEPARATOR

Thousands in Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish a brand new, well made, easy running, easily cleaned, perfect skimming separator for only \$15.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements.

Our Twenty-Year Guarantee Protects You Our wonderfully low price and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have an old separator of any make you wish to exchange, do not fail to get our great offer. Our richly illustrated catalog, sent free of charge on request, is the most complete, elaborate and expensive book on Cream Separators issued by any concern in the world. Western orders filled from Western points. Write today for our catalog and see for yourself what a big money saving proposition we will make you. Address, AMERICAN SEPARATOR CO., Box 1092, Bainbridge, N.Y.

This Big Leather-Bound Webster's 825-Page Dictionary

Sent Prepaid to Mail and Breeze Readers

FREE

Unequaled Bargain Offer

Here is a book that is constantly needed by every man, woman and child. No other one book contains so much of practical educational value. The book illustrated here is a book such as would ordinarily retail for a high price. It is handsomely and substantially bound in soft leather covers and printed in large, clear, easily-read type. It is just the right size for home, office or school use. Contains "Business and Law Terms," "Famous Names and Familiar Phrases," "Punctuation Rules," "Forms of Address," "Patent and Copyright Laws," "1910 Census of Principal Cities," "Declaration of Independence," "Constitution of United States," "Simplified Spelling Rules," "Weights and Measures," "Foreign Words and Phrases," "Abbreviations," Etc., in addition to complete definition and pronunciation of nearly 50,000 words. No home library, no reading table, no student's outfit is complete without a good dictionary—and there is none other more authoritative or more complete than the famous Webster.

I have just made one of the largest dictionary purchases ever shipped into the West. I got them for a price away below the usual wholesale rate—a price so low, in fact, that I can give these books free—as long as my supply lasts—to the readers of this paper. I will send one of these big value dictionaries free and prepaid to all who fill in the accompanying coupon remitting just \$2.00 to pay in advance for a 3 years' subscription (156 big numbers) to my well known farm weekly, "The Farmers Mail and Breeze."

My supply, while large will not last long on such an offer as this! So if you want to get in on this great bargain, sign and return the coupon with \$2.00 today. The coupon must be used, or the wording copied on a piece of letter or note paper in order to secure this special price. Renewal or extension subscriptions accepted on same terms as outlined above.

Cut Out and Mail This Coupon Today!

Arthur Cresser, Publisher,
Mail and Breeze, Topeka, Kansas.

Dear Sir: I desire to accept your special offer and enclose herewith \$2.00, to pay for 3 years' subscription to Farmers Mail and Breeze, and you are to send me, prepaid, one leather-bound "Webster's 825-Page Dictionary" as per your offer.

Name

Postoffice

R. F. D.

State



Don't Pay A Dollar A Pound this Spring for Sudan Grass

SEED, to grow this wonderful, sure-yielding, forage crop. Our price is only 50c per pound for strictly genuine, inspected and certified pure seed—guaranteed to be grown, harvested and cleaned by experts—every pound of it officially inspected in the field before harvest—certificate of inspection furnished.

THIS SPRING EVERY FARMER should plant Sudan Grass—the forage crop that never fails. Grows in any soil, anywhere. Yields big—rain or no rain—400 pounds of seed to acre. 1 to 2 tons hay each cutting—at least two cuttings per year. Sows in rows or broadcast. Requires little cultivation. Grows so thick it chokes out weeds. Produces more and better hay than millet. Makes splendid ensilage. Cannot become a pest like Johnson grass. Full particulars about planting, growing and harvesting free with our new 1915 Seed Book. Write today.

Ross Bros. Seed House 218 E. Douglas Ave. WICHITA, KANSAS



Do You Have to be Shown?

I'm told that I have the best quality of seed, give the largest packages and have the most common-sense Seed Book in the bunch. And I'm willing to admit it.

Do you have to be shown? All right, I live close to the Missouri line and I'll "show" you. I'll send you the Seed Book and a package of garden seed, and you can judge for yourself. **NO CHARGE FOR EITHER**, and you need not even send the postage unless you wish.

I also have guaranteed Clover and Alfalfa, and all kinds of farm seed at Farmer's Prices. Shall I send you free samples of these also?

HENRY FIELD, Pres.
HENRY FIELD SEED CO., Box 60, Shreveport, La.



Garden Seed in Bulk

Barteldes Seeds have been raising prize-winning Tomatoes, Cabbages, Onions and other vegetables for nearly fifty years.

Buy Barteldes Seeds in Bulk or Packet and you will get fresh seeds of high germination and true to name. Barteldes packets are large and well filled with plump, first class seeds.

Big Free Catalog with lowest prices of garden seeds in bulk and packet, together with Pink List giving prices of all field seeds in quantities.

The Barteldes Seed Co.
1206 Massachusetts Street, Lawrence, Kansas.
1206 West Main Street, Oklahoma City, Okla.
1206 Sixteenth Street, Denver, Colorado.



GOOD SEEDS

BEST IN THE WORLD
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE
Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

H. H. SHUMWAY, Rockford, Illinois

NURSERY SNAPS

- 25 Budded Peach Trees \$1
- 25 Grafted Apple Trees 1
- 50 Concord Grape Vines 1

Hardy, vigorous stock—guaranteed. Catalog and 25c Due Bill free. Write for them.

FAIRBURY NURSERIES, Box J, Fairbury, Neb.

SEEDS You Need

Good, fresh, reliable Garden, Field and Flower Seed. Write to

DAVID HARDIE SEED CO.
Dallas, Texas

For their 1915 catalog and price list—it will be mailed free. Mention this paper.



STRAWBERRY PLANTS

Of all leading varieties. We guarantee every shipment of plants shipped by us to be pure and true to name first class in every respect or money refunded. We have millions of fine plants and our prices are far below many others. Ask to day for catalogue and be convinced that you will save money by placing your order with us. Remember our motto is quality service and satisfaction guaranteed.

O. C. Walker & Bros., Box 25, Judsonia, Ark.

200 Strawberry Plants \$1

Choice of 20 Varieties. Parcel post paid

1,000, express paid, \$4.00; American Ever-Bearing Strawberries, 50, \$1.00. Big bargains in all small fruits. Catalog free.

W. H. KOELL, Box 814, Hampton, Ia.

SWEET CLOVER

HIGHEST MONEY-MAKER KNOWN—INVESTIGATE

The greatest forage plant that grows. Nothing equal for fertilizing. Excels Alfalfa as a producer. Crop worth \$50 to \$125 per A. Easy to start. Grows everywhere. Can save you money on best tested, guaranteed seed. Write today for Free Sample, circular and 62-page catalog.

A. A. BERRY SEED CO., Box 938, CLARINDA, IOWA

Lorimer of the Northwest

BY HAROLD BINDLOSS

Author of "Ranching for Sylvia," "By Right of Purchase," "Winston of the Prairie," "Alton of Somasco," and Other Stories.

(Copyright Frederick A. Stokes Co., N. Y.)

SYNOPSIS

The story describes the hardships, disappointments and final success of two young Englishmen seeking their fortunes as farmers in the Canadian Northwest. Through it all there runs the love tale of Ralph Lorimer, a plucky young man who refuses to let "ill luck" down him, and Grace Carrington, daughter of a wealthy English land owner. In the installment last week Lorimer had faced death to rescue Grace from drowning in a mountain torrent and had carried her to an abandoned cabin while her father and Ormond, a rival for Grace's hand, are searching for her. Lorimer asks for Grace's hand in marriage but Colonel Carrington denies him. Grace promises to wed no other man. The railroad is finished and its opening is celebrated.



MARTIN LORIMER could speak excellent modern English when he liked, and usually did so, but, and in this he resembled others of his kind, in times of excitement he used the older form which is still the tongue of Lancashire. I made some haphazard answer, but it seemed appropriate, for Alice smiled upon us as we shook hands heartily. When I turned toward her a feeling of pity came upon me—she looked so wan and frail. Still her eyes were bright with good-will, and her voice seemed to tremble a little as she said, "I am so glad to see you and your uncle good friends again. He was very stupid, and I told him so."

"You did, lass," said Martin Lorimer, "many a time, and we had words upon it. We're a thick-headed people, Ralph, except for our womenkind, and if we're slow to think evil we're slow to change. The Lord forgive me for pig-headed folly."

"May I show you this wonderful township?" interrupted one of the railroad magnates approaching with a bow. "Mr. Ralph Lorimer, I am desired to invite you to the celebration dinner. It's the chief's especial wish that you should be present," and he drew Alice away, leaving my uncle and myself alone.

"We'll go and see the city, too," said the former. "Already the air of your mountains makes me young again. Never heard how I cheated the doctors, eh?—they badly wanted to bury me, but I'll tell you all about it another time. Now I feel like a school lad out for a holiday."

He seemed in excellent spirits, and with me the bright sunshine, the uproarious rejoicings of the crowd, and the events of the past half-hour combined to banish all depression, while many an acquaintance smiled as he glanced at the grizzled man in tourist tweeds who chatted gaily and gazed about him with wondering eyes.

"You breed fine men over here," he said. "Never saw a finer set anywhere. Bless me! look at that one striding toward us with the air of a general; stamp of blood about him; where did he get it? And yet by the look of him that fellow could do a hard day's work with any British navvy."

"He can," I answered smiling, "and he was taught at a British university. Now he hews logs for a living, and sometimes works for me. Let me introduce you to my uncle from Lancashire, Martin Lorimer—Lance Chisholm."

"Very glad to meet you, sir," said the latter. "I promised to look in on Morgan in the saloon; will you join us?"

When we elbowed our way through the noisy room toward the bar Chisholm proffered the usual refreshment, and with a comprehensive wave of his hand bade the tender, "Set them up!"

Martin Lorimer stared bewilderedly at the row of glasses deftly flung in front of him, and there was a roar of laughter when, glancing at me appealingly, he said, "It's a hospitable country; but, bless us, Ralph! are we expected to drink all of this? And I'm a churchwarden!"

A bearded giant in blue jean smote him on the shoulder. "You've got the right grit in you, stranger," he said. "Start right in, and do the best you can," while the old man joined in the merriment when I explained that the invitation included all in the vicinity who cared to accept it. I left him with Harry and Johnston presently because one of the guests brought word that Alice desired to see me, and I found her on the veranda of the best house the citizens could place at the strangers' disposal. There were ladies among them. I drew two chairs into a corner where a flowering creeper screened half the trellis, and from where we sat a wonderful vista rolled away before us. Alice had changed but little, save that she seemed even more delicate. I had changed much, and now as we chatted with a resumption of ancient friendli-

ness I wondered how it was that her innate goodness and wisdom had never impressed me more in the old days. Few would have called her handsome at first sight, but she was dowered with qualities that were greater than beauty.

"You will wonder what brought us here," she said at length, "and your uncle forgot to tell you. Ever after that—unfortunate mistake—he talked constantly about our headstrong lad, but when he lay dangerously ill for weeks together I was unable to write you. The doctors had little hope most of the time, and one said he recovered chiefly because he had made his mind up he would not die, and when they forbade all thought of business and recommended travel he made me buy the latest map of Canada, and we are now staying at the new mountain chalet. My own health has not improved latterly, and that helped to decide him. We left the main line on the prairie and went south in search of you, and when we could only discover that you had gone to British Columbia I am sorry to say that my father expressed his disappointment very forcibly—but you know his way. Then while we stayed at the chalet we read about the opening of the new line, and he grew excited at a mention of your name. 'We'll go right down and see that opening, lass,' he said. 'I've a letter to one of the railroad leaders, and I'll make him invite us; and so we came. When my father sets his heart on anything he generally obtains it. Now we will talk about Canada.'

The flowering creeper partly hid us, but it left openings between, framing the prospect of glittering peak and forest-filled valley with green tracery, while warm sunlight beat through. So, in contrast to the past, I found it comforting to lounge away the time there with a fair companion, while glancing down the glistening metals I told how we had built the line. Alice was a good listener, and the tale may have had its interests, while—and this is not wholly due to vanity—no man talks better than when he speaks to a sympathizing woman of the work that he is proud of. It was no disloyalty to Grace, but when once or twice she laid her thin hand on my arm I liked to have it there, and see the smile creep into her eyes when I told of Lee's doings. So the minutes fled, until at last a shadow fell upon us, and I saw Grace pass close by with her father. For an instant her eyes met mine, then I felt that they rested on my companion, whose head was turned toward me confidentially and away from Grace, and I fumed inwardly, for she spoke to the Colonel and passed on without a greeting.

"That is surely Miss Carrington," said Alice looking up later with a faintly perceptible trace of resentment, "Why did she not speak to either of us?"

It was a troublesome question, because I could not well explain what my exact relations were with Grace, nor how her father's presence might perhaps restrain her, so that I was glad when Martin Lorimer suddenly joined us. It seemed fated that circumstances should array themselves against me. The rest of the afternoon was spent in hilarious merriment, and, though as a rule the inhabitants of that region are a peaceful folk, a few among them celebrated the occasion by breaking windows with pistol shots and similar vagaries. Still even those who owned the glass took it in good part; and, as darkness fell, considerably more of the populace than it was ever intended to hold squeezed themselves into the wooden building which served as city hall, while the rest sat in the dust outside it, and cheered for no particular reason at regular intervals.

The best banquet the district could furnish was served in the hall, and I sat opposite the surveyor near the head of one table, with my uncle and Alice close by, and Grace and Colonel Carrington not far away. Cedar sprays and branches of balsam draped the pillars, the red folds of the beaver ensign hung above our heads, and as usual the assembly was democratic in character. Men in broadcloth and in blue jean sat side by side—rail-layer, speculator, and politician crowded on one another, with stalwart axe-men, some of whom were better taught than either, and perhaps a few city absconders to keep them company; but there was only good-fellowship between them. The enthusiasm increased with each orator's efforts, until the surveyor made in his own brusque fashion, which was marked by true Western absence of bashfulness, the speech of the even-

SEEDS!

Reliable and Full of Life
SPECIAL OFFER
Made to build New Business. A trial will make you our permanent customer.

PRIZE COLLECTION Radish, 17 Varieties, worth 15c; Lettuce, 12 kinds, worth 15c; Tomatoes, 11 the finest, worth 25c; Turnips, 5 splendid, worth 15c; Onions, 5 best varieties, worth 15c; 10 Spring Flowering Wallflowers, worth 25c—65 varieties in all; worth 25c.

GUARANTEED TO PLEASE.
(Write today; mention this paper.)

SEND 10 CENTS

To cover postage and packing and receive this valuable collection of seed packets, together with my big instructive, beautiful Seed and Plant Book, telling all about Buckbee's "Full of Life" Seeds, Plants, etc.

H.W. BUCKBEE

Rockford Seed Farms
Farm 99 Rockford, Ill.

Feterita

DROUGHT RESISTING— BRANCHES FROM ROOT— 25 DAYS EARLIER THAN KAFFIR—YIELDS 50 to 80 bushels per acre and Chinch Bugs will not bother it. Feterita is a new variety, a great drought-resistant, but recently imported from South Africa and makes good fodder; in some instances an excellent yield of grain received without a drop of rain after planting. Write TODAY for 128 page free book telling about the new varieties of grains, grasses, vegetables, flowers and field seeds. WRITE TODAY.

GRISWOLD SEED COMPANY
141 South 10th Street Lincoln, Nebraska

BUY Trees At Wholesale

and Save Agents' and Dealers' Profits.

Apple trees \$5 per 100 and up; Peach trees \$7 per 100; Cherry trees \$12 per 100. All of the best varieties for the Middle-West.

SPECIALTIES

Concord Grapes,	\$2.00 per 100
Rockhill's Progressive Fall Bearing Strawberries,	\$2.00 per 100
Cumberland Raspberries,	\$3.00 per 1000
Early Harvest Blackberries,	\$3.00 per 1000
St. Regis Everbearing Red Raspberries,	\$2.50 per 100

Trees and plants guaranteed to be true to name and free from disease. We pay freight on \$10.00 orders, and guarantee safe arrival. Headquarters for all kinds of Berry Plants, Garden Boots, Shrub Trees, Forest Tree Seedlings, Flowering Shrubs, etc. **FREE CATALOG.**

HOLSINGER BROS. NURSERY,
Box 208 ROSELDALE, KANSAS.

GOOD SEEDS

BEST IN THE WORLD

New Crop Grown at Farmer Prices. In addition a lot of extra **FREE SEEDS** thrown in with every order.

BIG SEED BOOK FREE

Our Grand Big Illustrated Catalog of all Farm and Garden Seeds is now ready and free to you. Write for it today. Send name and address of neighbors who buy seeds. Address

RATEKIN'S SEED HOUSE
SHENANDOAH, IOWA Box 16

25c Worth of Seeds Free To 1915 Customers

I have some new varieties of flower and vegetable seeds I want you to try. I want you to know what pure seeds really are. I want to demonstrate the difference and acquaint you with the light I've started for pure seeds at right prices. That's why I make this Free offer.

You're Going to Buy Seeds. Then Get My Big Catalog and Special Propositions Sure Look around. Get the book. As you now see, shall you keep. My catalog gives facts, prices on seeds, plants, shrubs, also colored pictures of special varieties. The most interesting book published. It's sent free to others. Sent free to you on request. Address, **GALLOWAY BROS., & CO.**, 41 Galloway Station, Waterloo, Iowa

JAPAN ROSE BUSHES

The Wonder of the World. Rose Bushes with roses on them in 8 weeks from the time the seed was planted. It may not seem possible but we guarantee it to be so. They will **BLOOM EVERY TEN WEEKS** Winter or Summer, and when 3 years old will have 5 or 6 hundred roses on each bush. Will grow in the house in the winter as well as in the ground in summer. **Roses All The Year Around.** Package of seed with directions and our guarantee by mail 10 cts.

Japan Seed Co. Box 41 So. Norwalk, Conn.

"Bauer" Berries

Strawberry plants—Klondike, Aroma, Candy. Every plant guaranteed. Send for free 66-page catalogue.

J. A. BAUER, Judsonia, Ark.
Strawberry Specialist. Establ'd 1860
Box No. 24

Strawberry FREE To introduce our Pedigreed Ever-Bearing strawberry plants we will send 25 fine plants free. **PEDIGREED NURSERY CO., St. Louis, Mo.**

MEN WANTED

We positively teach you at home by mail to earn \$25 to \$50 weekly as Chauffeur or Repairman. Students sent to positions, low rates, lowest prices. **MODELS FURNISHED.** Write for Free Book.

Practical Auto School, 66-V Beaver Street, New York

January 16, 1915.

ing. Some one who had once served the English press sent a report to a Victoria Journal, of which I have a copy, but no print could reproduce the essence of the man's vigorous personality which vibrated through it.

"What built up the Western Dominion, called leagues of wheat from the prairie, and opened the gate of the mountains—opened it wide to all, with a welcome to the Pacific Slope paradise?" he said. "The conundrum's easy—just the railroad. Good markets and mills, say the city men, but where do the markets come in if you can't get at them? What is it that's binding London over the breadth of Canada with China and Japan—only the level steel road. You said, 'We've gold and silver and timber, but we're wanting bread, machines, and men.' We said, 'We'll send the locomotives; it will bring you them; and this railroad keeps its promise—keeps it every time. So we cut down the forest, and we blew up the mighty rocks, we drove a smooth pathway through the heart of the ranges—and now it's your part to fill the freight cars to the bursting.

"We'll bring you good men in legions; we'll take out your high-grade ore, but you'll remember that the building of this railroad wasn't all luxury. Some of those who laid the ties sleep soundly beside them, some lost their money, and now when you have thanked the leaders in Ottawa, Montreal, and Victoria, there are others to whom your thanks are due—the men who stayed right there with their contracts in spite of fire and snow, staking dollar after dollar on a terribly risky game. There were considerable of them, but most of you know this one—I'm sharing my laurels with him—" and as a thunder of applause which followed the halt he made died away he turned toward me. "Stand right up, Contractor Lorimer—they're shouting for you."

There was further clamor, but I scarcely heard it, and I longed that the floor of the hall might open beneath me. Still, there was clearly no escape, and I stood up under the lamp-light, noticing, as one often notices trifles at such times, how like a navy's my right hand was as it trembled a little on the white table-cloth. A sea of faces was turned toward me expectantly, and I pitied their owners' disappointment, but I saw only four persons plainly—my uncle, and Alice, who flashed an encouraging glance at me, Colonel Carrington looking up with a semi-ironical smile, and Grace. I could not tell what her expression meant.

I should sooner have faced a forest fire than that assembly, but at least my remarks were brief, and I felt on firmer ground when memories of the rock-barred track and the lonely camps rose up before me, and there was a shout at the lame conclusion, "We gave our bond and we tried to keep it, as the rest did too. We were poor men, all of us, and we are poor men still; but every one owes something to the land that gives him bread. So we tried to pay back a little, and perhaps we failed; but at least the road is made, and we look forward hoping that a full tide of prosperity will flow into this country along the rails we laid."

The applause swelled and deepened when Harry Lorraine stood up, silver-tongued, graceful, smiling, and called forth roars of laughter by his happy wit; and when he had finished Martin Lorimer, who was red in the face, stretched his arm across the table toward me, and held up a goblet, saying: "For the honor of the old country! Well done, both of you!"

"The fun is nearly over. We can talk business," said the gray-haired man from Winnipeg, on my right side. "I may say that we are satisfied with the way you have served us, and, though a bargain is a bargain, we don't wish to take an unfair advantage of any one; so the surveyor will meet you over the extras. He is waiting with the schedule, and by his advice we're open to let you this contract for hewn lumber supplies. Here's a rough memo; the quantity is large, and that is our idea of a reasonable figure."

I glanced at the paper with open pleasure, but the other checked me as I began to speak.

"Glad you will take it! It's a commercial transaction, and not a matter of thanks," he said. "Settle details with the surveyor."

I spent some time with the latter, who smiled dryly as he said, "Not quite cleaned out yet? Well, it's seldom wise to be too previous, and you can't well come to grief over the new deal! Wanted again, confound them! Sail in and prosper, Lorimer."

"Our friend has acted more than fairly," I said. "We can pay off all debts, and I have just concluded a big new, profitable deal!"

"That will keep," said Harry, laughing; "another matter won't. They're going to haul out the visitors' picnic straight away, and they show good judgment. A sleeper on the main line will form a much more peaceful resting-place than this elated hamlet tonight.

European Wheat



EUROPE
60 TO 80
BU.
PER
ACRE
WHY?

FULL CROP
NO WASTE LAND
BETWEEN
ROWS

European farmers raise 60 to 80 bushels of wheat per acre. American farmers raise an average of only fourteen bushels to the acre.
(According to U. S. Government Reports)

This great difference is not due to any superiority of European soil, but is caused by the difference in seeding.

European drill rows are only 3 to 3½ inches apart.
American drill rows are 6 to 8 inches apart. This shows you the appalling waste of American land.

You Can Double Your Oats Yield With Fetzer's Modern 3-in. Drill

making a furrow three times wider than other drills, broadcasting the seed under the surface, producing deeper roots, sturdy growth; utilizes the space between the rows and saves the waste land. You can easily see how this greatly increases the yield.

Multiplies your Oats Crop; and makes a good stand of clover with wheat in the driest years.

Your land is too valuable for inefficient farming. Write for full information about our Drill. Our positive Guarantee of 25 per cent increase in yield goes with every machine. Make your land more Profitable. Write for literature today.

Fetzer & Company
Box W 6, Springfield, Ill.



AMERICA
14 BU.
PER ACRE
WHY?

HALF A CROP
WASTE LAND
WASTE LAND
WASTE LAND
WASTE LAND
WASTE LAND

Your uncle wants to see you, and Miss Carrington is waiting beside the cars." I found Alice and Martin Lorimer beside the track, the latter fuming impatiently, while the locomotive bell summoned the passengers; and as I joined them Grace walked into the group before she recognized us. Alice was the first to speak, and I saw the two faces plainly under the lighted car windows, as she said:

"I am glad to meet you again, Miss Carrington, and am sorry I missed you this afternoon. I was too busy giving my cousin good advice—it's a privilege I have enjoyed from childhood—to recognize you at first."

Grace's expression changed, and I thanked Alice in my heart for what I believe few women would have done. Then there was a shriek of the whistle, and a bustle about the train; and as Grace moved toward the car she said softly in passing:

"It was a fitting consummation. Better times are coming, Ralph, and I am proud of you."

"Am I never to speak to thee, lad?" said Martin. "There's nothing would please me better than to wait and see the fun out; but Alice, she won't hear of it. Come to see us, and stay a month if you can. Anyway, come tomorrow or the day after. I have lots to tell thee. Oh, hang them! they're starting. Alice, wouldn't that lady take charge of thee while I stay back?"

"Get into the car, father," said the girl, with a laugh. "You mustn't forget you're the people's warden. Good-bye, Ralph, until we see you at the chalet." "All aboard!" called a loud voice; the couplings tightened; and I waved my hat as, followed by a last cheer, the train rolled away.

"Is it true that all has been settled satisfactorily?" asked Harry, presently, and when I answered, he added: "Then we're going back to finish the evening. Johnston's to honor the company with stump speeches and all kinds of banjo eccentricities. You are getting too sober and serious, Ralph; come along."

I refused laughingly, and spent at least an hour walking up and down through the cool dimness that hung over the track to dissipate the excitement of a day of varied emotions. Then I went back to our shanty and slept soundly, until about daybreak I was partly awakened by the feasters returning with discordant songs, though I promptly went to sleep again. I never heard exactly what happened in the wooden town that night, but there was wreckage in its streets the next morning, and when I opened my eyes the first thing I saw was our partner Johnston slumbering peacefully with his head among the fragments of his shattered banjo.

TO BE CONTINUED.


CLOVER \$4.75

AND TIMOTHY 4.75 Per Bu.

SEEDS—Best and Cheapest Seeding Known.
Alsike Clover and Timothy mixed. Fully 1-3 stalks, a big bargain. Greatest hay and pasture combination grown. Write for Free Sample and 52-page catalog and circulars describing this wonderful grass mixture. Beats anything you can sow and ridiculously cheap. We handle only best tested reselected seed guaranteed. Write before advance.
A. A. BERRY SEED CO., Box 535, Clarinda, Iowa

For Testing

Our named varieties of HARDY Foster vigorous, early bearing, heavily fruiting, clean hearted, long lived trees. To prove their worth, we offer 6 Grafts (rooted) for testing, if you will send 10c to help cover cost and mailing expense. They will bear barrels upon barrels of apples in a few years' time. Catalogue calling about other Blizard Belt fruits, EVERBEARING STRAWBERRIES, etc. FREE. Write today.
The Gardner Nursery Co., Box 513 Orange, Ia.



Special! Price Reduced 1/2

Now You Can Buy Dee Turner's Guaranteed Sudan Seed

45¢ lb.

A BIG NEW 30 DAY OFFER

10 Lbs. \$4.50, Sent Prepaid. Read My 30-day Cash Prices On Any Amount

You want to plant at least 10 pounds—enough for five acres. Send me \$4.50 and I'll send you this quantity, prepaid. Five pound bags \$2.50. Write for special quotations on lots of 100 lbs. or more.

80 Lbs. Of Pure Sudan For a Bale Of Cotton

Here's a special deal for you cotton farmers if you're short of ready cash. Send me warehouse receipt and I'll send you 80 lbs. of Sudan Seed. Make the cotton you raised last year plant you a SURE-PROFIT crop, this year. Sell any surplus you don't need to your neighbors.

Here's Your Chance to Get the Known-Pure Sudanata Bargain

On January first I was confronted with an unforeseen need for quick cash. If I fail to meet this obligation it will cost me a big loss. I have more than 100,000 pounds of the finest, purest Sudan Seed in America. Based on supply and demand it's worth every cent of \$1 a pound. It will cost every planter that much or more before planting time, but I need money and need it quick. I figured you'd be willing to buy your seed now, rather than wait till Spring, if I'd make it worth while. That's exactly what I've done in this sensational cut price for 30 days.

Order Today From the World's Biggest Grower—Full Information Sent Free

I guarantee every pound of my seed to be absolutely pure. It is officially tagged: "Inspected and Passed." I grew this seed for my own use as well as the market. I used every precaution and have developed seed as strong and pure as any to be had in America. You can't go wrong on my seed. NOW—for 30 days—there's not the slightest reason for buying doubtful seed. NOW—you can get the genuine pure Dee Turner Quality for only 45c the pound. Don't delay—you might forget. Send your order now with the coupon below. Descriptive booklet and full details mailed upon request.

CLIP AND MAIL THIS COUPON NOW.

DEE TURNER,
803 Central St.,
Lubbock, Texas

I'll accept your thirty day offer. Send me prepaid lbs. of pure officially inspected Sudan Seed. Make delivery on..... Enclosed is \$.....

Signed

Address.....
Lubbock, Texas

This Offer is Good For Only 30 Days

PAID ADVERTISEMENT.

PAID ADVERTISEMENT.

Railroads of Kansas Losing Thousands

PAY MILLIONS TO PEOPLE IN WAGES, TAXES AND FOR SUPPLIES EVERY YEAR

KANSAS AND THE RAILROADS.

It is a strange fact, but nevertheless true, that in times past the people of the average state have not regarded their railroads as an "industry"—and yet, next to agriculture, there is not a single Central or Western state in which the railroads do not pay out more money for labor and supplies than does any other single enterprise, however large. We brag about our fertile farm lands and rejoice that our cities are filled with big factories with big pay rolls which create a market for farm products—but we forget that more workingmen's families depend upon the railroads for a living than upon any other one industry in either the average state or the nation and that their welfare is therefore closely linked to that of the farmer and the merchant—not merely because they furnish him freight and passenger service, but because the millions they disburse in one way and another contribute tremendously to the prosperity of the state in which we live.

Thus, for instance, the railroads are the largest taxpayers in the state of Kansas. While the returns are not entirely complete for 1914, the railroad taxes of the year just closed can safely be estimated at \$3,750,000—and this tidy sum did its full share to support every public school, highway, and to help meet every other revenue expense of the state.

The railroads of Kansas were taxed in 1914 on properties valued at \$384,904,955—money which in years gone by was invested in these great arteries of commerce by thousands of men and women who live all over the United States and in Europe, and without whose financial assistance the wonderful progress of our proud commonwealth would have been impossible.

During the year ending June 30, 1914, the railroads of Kansas employed 47,993 men and paid out to them in salaries \$29,589,150—and these millions did their full share to create a market for Kansas farm products and to uphold the volume of business of Kansas grocers, clothiers, dry goods men, and others who depend upon public patronage.

During the year 1914, the railroads of Kansas paid out nearly \$5,000,000 for coal—and the lion's share of this went to Kansas miners, of whom the railroads are by far the largest patrons. So, too, in an average year they consume more than forty million gallons of oil.

In other words, when the people of Kansas look at their railroads in the light of an industry—when they look at the figures on the other side of the ledger—they will find that not only do the railroads return to them in one way and another practically every dollar they collect within the state for freight and passenger service, but that a number of lines are actually doing this business at a loss, while with others the margin of profit is so small that it doesn't begin to pay a fair return upon the invested capital, upon which they pay a higher rate of taxation to the state than does any other form of private property.

In this connection, we wish to digress for a moment to quote some statistics which should have had a place in a former article. It costs an average of 7 mills per mile to haul a ton of freight in the United States, whereas in England it costs 2.33 cents, in Germany 1.42 cents, and in France 1.41 cents. In the United States the average wages paid to railroad employees are \$2.23 per day, in England \$1.15, and in Germany and France not over \$1 per day. The English railroads are capitalized at \$265,000 per mile, in France at \$137,000 per mile, in Germany at \$114,185—while in the United States the stock and bond capitalization averages only \$63,000 per

mile. In view of this remarkable comparison, do American railroads deserve the wholesale denunciation which has been heaped upon them?

LOSSES ON PASSENGER TRAFFIC.

In the application recently filed by the Kansas lines before the State Public Utilities Commission for a restoration of the three-cent passenger fare, the Missouri Pacific filed data showing that it had sustained a loss on its Kansas passenger traffic during the fiscal year ending June 30, 1913, amounting to \$402,263.31. For the fiscal year ending June 30, 1914, the losses on its Kansas passenger traffic had increased to \$449,469.72—or \$47,206.41 over the year before.

The Rock Island filed data showing that it lost \$60,632 during 1913 on its Kansas freight and passenger business and that of this amount its loss in the passenger department was \$29,073. That its general losses are rapidly increasing is also shown by the fact that it only earned 2.25 per cent on its Kansas property in 1913 on both interstate and state business while in 1914 it earned only 1.5 per cent on its Kansas investment.

The Santa Fe filed evidence showing that in 1913 it lost \$76,833.27 on its Kansas freight and passenger business, while in 1914 the deficit climbed to \$125,673.98. In view of these facts, is there a fair-minded citizen in the state who will contend that Kansas railroads are not entitled to a restoration of three cent passenger fares?

LOSSES GROWING CONTINUALLY.

From these figures, which are open to absolute proof, it can be seen that the Kansas lines are not only sustaining a loss amounting to hundreds of thousands of dollars annually on their passenger traffic, but that with an ever-increasing cost of operation these losses are constantly growing heavier—and if the service to the public is to remain efficient and adequate, and if the railroad investments of the state are not to be driven to the point of confiscation, the people of Kansas must, through their rate-making authorities consent to a return to the three cent passenger fare which was arbitrarily suspended by the old Board of Railroad Commissioners in 1907 without a due regard for increasing labor and supply cost or an adequate interest return upon the millions invested in Kansas railroad properties. What industry is there in the nation which could have tolerated a reduction of one-third in its income on a large volume of its business during the last few years without coming to grief?

Four years ago, as Governor of New York, Justice Hughes, of the United States Supreme Court, vetoed a two-cent passenger law enacted by the Legislature on the ground that it was an arbitrary procedure which did not take into consideration a fair return upon the railroad properties of that state—and few men stand higher in the esteem of the American people than this great jurist who did perhaps as much as any other man in the country to break up illegal and unfair practices on the part of large corporations.

So, too, the Supreme Court of Pennsylvania held that a two cent passenger fare was unconstitutional in that state because it was essentially confiscatory. This high court took the position that capital invested in railroads, as well as in other lines of private property, is entitled to earn 6 per cent on a fair capitalization and that the arbitrary enactment of a two cent fare rendered such a return upon the lines in Pennsylvania impossible. It also took the position that railroads not only have the right to insist upon a fair return upon both freight and passenger business,

but that it is their duty to do so in order that one class of patrons may not be compelled to pay an inequitable rate to make up the losses sustained in another department.

If the arbitrary enactment of a two cent passenger rate is unfair to the railroads of New York and Pennsylvania, where there are large centers of population and where the nation's greatest density of freight tonnage naturally exists, how much more unfair is such a rate in a purely agricultural state like Kansas, which has a total population of only a million and a half with no large manufacturing centers?

The reader is familiar with the recent 5 per cent increase in freight rates granted by the Interstate Commerce Commission to Eastern lines—and again, as the Commission wisely says, if the precarious financial conditions created by the European war renders this increase necessary, how much more are the weaker Western lines—which are compelled to exist almost altogether upon an agricultural patronage—entitled to some substantial relief?

FACING GRAVE PROBLEMS.

Unquestionably we are facing some of the gravest problems that ever confronted us as a Nation—and these problems grow largely out of a war which is without precedent in history. True, with a rapidly increasing cost of operation on the one hand and reduced rates on the other, it was merely a matter of time until the railroad question was bound to become pressing—but the great tragedy across the seas has suddenly resolved into an acute crisis a problem which might otherwise have been solved gradually and without any far-reaching industrial disturbance.

The United States is a heavy debtor Nation. During the average year our balance of trade against the rest of the world amounts to approximately \$500,000,000—but on top of this we always owe approximately another \$500,000,000 which heretofore we have been able to stand off by selling Europe industrial securities to that amount. Now, however, the great warring countries have served notice that they not only expect us to pay our debts above our trade balance in gold—but that in addition they look to us to buy back from them hundreds of millions of dollars worth of American securities which are now held abroad. It was to deliver this grim message that Sir George Paish, of the English Exchequer, paid his recent visit to the United States, and when he got through making his statement to a group of big New York bankers, an old veteran financier who has survived many a financial storm remarked to his profoundly silent auditors—"The sheriff, with a writ, is on the doorstep."

That a great nation-wide crop next year will give us the largest trade balance we have ever known is undoubtedly true—and yet, with having to finance all our monetary needs at home from this time on and buying back millions of foreign owned securities, the future at best is precarious. However, the heaviest strain of all will come when the war ceases and when Europe begins to rebuild the hundreds of millions of dollars worth of property which has been destroyed—for this period is certain to force the highest interest rates the world has ever known, and if at that time American railroad securities are not earning a fair return upon the investment, nothing can prevent them from going into the financial scrap heap—and it is to prepare for this emergency—to keep railroad securities from becoming a point, of national weakness, which will bring the whole temple of American investments tumbling down over our heads—to protect the hundreds—of banks, life and fire insurance companies, etc., whose assets are largely invested in railroad bonds as well as the railroads themselves—this is the fear which is gripping hundreds of financiers, and students of economic conditions in the present hour—men, many of whom heretofore have never seriously concerned themselves over the troubles of American railroads. In the present instance, therefore, the railroad crisis is of tremendous importance because in it is involved the still greater problem of the integrity and safety of the whole superstructure of American business. That we cannot shove it aside by a broadside of demagogic platitudes or minimize it by employing the strategy of an ostrich is apparent to all thinking citizens who are

seriously concerned in their own and their country's future welfare.

UP TO PEOPLE OF KANSAS.

In no other commonwealth have the railroads had a larger share in progress and development than in Kansas. They came in the early days when its broad prairies were the habitat of roving herds of buffalo and savage Indians—and from that hour to this they have played their part in a drama of thrift and enterprise which is without a parallel in the history of the Republic—a wondrous story of progress which has traveled upon the four winds to the ends of the earth and which swells with pride the breast of every true Kansan.

And yet, marvelous as have been our accomplishments in the past, is not Kansas today merely standing upon the threshold of her true destiny? Have we not ample room for thousands of additional tillers of our fertile soil, and do not our splendid inland cities plead for factories in order that we may ourselves produce some of the finished products for which Kansas people spend scores of millions every year? Do we not need hundreds of miles of additional railroad mileage before we can make the most of our agriculture and commerce—and will the millions of outside capital necessary to the construction of these additional facilities be forthcoming if the people of Kansas do not treat fairly the millions already invested within their midst? In short, have not the people of Kansas a splendid opportunity to set the pace for the rest of the country over these troubled corporate problems by saying to investors everywhere that Kansas—first convinced of a square deal for herself—demands that from this time forward every dollar honestly invested in her enterprises shall be permitted to earn a fair return for its owner? And, should she reclaim such a sensible doctrine, would not half the people between the two oceans and hundreds of newspapers instantly exclaim, "That's just like Kansas—the home of sanity and progress?"

It is because Kansas railroads believe that Kansas people will be generously fair—once they know the truth about this great question—that has persuaded them to make this appeal through the public press. In doing so they have tried to state their side of the story fairly. They have made no attack upon anyone or sought to appeal to prejudice—and that the reader may accord to them the same credit for sincerity which he claims for himself—that he may be willing to raise his voice in defense of their rights as he would expect others to do in his behalf under similar circumstances—this is all the railroads of Kansas ask.

For Stallion Owners

All stallion licenses must be renewed for 1915. All stallions that have not been licensed must have licenses for 1915. The law prohibits the use of a stallion until the owner receives his state license. Application blanks have been sent to stallion owners. These blanks should be filled out at once and forwarded, with the fee required by law, to the Kansas livestock registry board, Manhattan, Kan. A license will be issued for 1915 as soon as this application is received at the office. Do not wait until almost time for the breeding season to open as then there probably will be a delay of two or three weeks. The fee for renewals after March 1, will be \$2 instead of \$1. Send all money by draft, postoffice money order, or certified check.

The law does not require an examination for soundness unless you desire to state in your advertisements that your stallion is sound. Notify the livestock registry board before March 15, 1914, if you want your stallion examined for soundness, and an inspector from this office will call at your barn and examine him for \$2. Remember you must notify the registry board before November 15, and give the location of your place of business. Local veterinarians will not examine stallions for soundness in the future.

Be sure to attend the horse breeders' meeting at Manhattan, December 30-31. Many important questions will be discussed at this meeting. For additional information write to the Kansas livestock registry board, Manhattan, Kan.

Keep all drafts off your horses. A draft is pneumonia's friend.

What War Means to Kansas

Amid the storm of war that has all but encircled the globe, it is necessary for Americans to keep stout hearts and clear minds. While the war is on we are apt to be too timid, and in danger of losing sight of the readjustment that must necessarily come about when the struggle is over.

Of this we are now certain, that whatever may be the fortunes of the war during the winter, the fields of neutral nations are going to be taxed to the utmost to provide food for the hungry people of Europe during the next two years. Not only is the pressure of food shortage already making itself felt, but the usual preparation for the 1915 crop has not been fully made, and as a result, not before the autumn of 1916 at the earliest can the grain bins of Europe again be relied upon for a regular supply.

How much the 1914 crop may be affected through the destruction of grain and flour in storage, or through its utilization for army purposes, cannot now be determined. It is safe to say, however, that every bushel of wheat on the Continent will be hoarded most carefully until the war is over. If peace comes during the winter the soldiers will go back to repair as best they may the losses of the autumn, but the farmers of America will have to fill any extra depressions in the European wheat bin.

This means high prices for grain, and high grain prices are sure to be followed by a quick increase in land values, says Farm, Stock and Home. The speculator will be the first to take advantage of this situation, and will shortly begin to take options on farms in neighborhoods where sale prices now run low. Possibly it might be as well for the farmer to go a little slow about giving such options. There is not likely to be a recession from the land values established by the war. Markets once secured to American trade are likely to remain in our hands for some time to come, and to go back to their old channels slowly enough to make the change harmless to the American farmer.

There is another matter to reckon with, and that is that no matter which

side wins in the struggle, many thousands of European families will be ruined, either by the war itself, or by the added burdens of taxation which inevitably will follow in its wake. These people will be the cream of the farmers of Europe—Belgian and French and German men of family and standing in their own lands. They will naturally look toward the New World as a place

During the bitter cold weather of Christmas week, 100 convicts' families in the prison town of McAlester, Okla., were found in a starving condition without food or fuel. Who knows how many more prisoners' families are in this same wretched condition? We have an immense prison population in the United States. The men on whom these families are dependent are taken away from them and supported by the state while they are left to starve, although they have committed no crime. Which is the greater punishment and which is the greater criminal, the state or the convicted man? The prison reform of which we have greatest need is employment for convicts at let-live wages, the money to go to their families. Here is a great wrong and the people should not rest until they have righted it.

where they can repair their fortunes. They will add to the demand for land, and their almost certain coming after the war is over may well justify hesitation on the part of the farmer when he is invited to sell. Many of these men will be without means. Why not hold the farm a little longer, and make a home for some good Belgian or German or French tenant?

In short, this is a poor time to sell the farm, and it is a good time to lift, with every ounce of brain and muscle, for the betterment of the farm life on the farm and in the neighborhood.

Be kind but firm with the colts, and teach them good stable manners.

Two Jokes From London

2/19/14. 263 Regent St. London W. Dear Sir: If you deem the following worthy of publication, I shall be pleased to receive American stamps or 25c notes. Yours faithfully Superior Knowledge J.G. Sulart

Two Highlanders in London for the first time were greatly amazed at the heavy street traffic. While standing awestruck on the pavement, a water cart passed spraying the dusty streets. "Hey, mon, yelled McGreggor, running after the cart, "yere losin' all yer water". "Come back ye old fool" called his companion after him. "Do yer no ken that's tal keep the bairns from sittin' on the back o' the cart?"

Scotched. Two old Scotsmen sat by the fireside smoking. Donald (after a long pause) "There's no much pleasure i' smookin', Sandy." Sandy: "Do di ye mak that dot?" Donald: "Well, yer see, if you're smooking yer own bacca, yere thinkin' o' the awfu' pain, all if yer smookin' someone else's, your pipe's rammt so tight it winna draw!!"

REGAL To men of financial responsibility and sales ability comes OPPORTUNITY The New Regal You know the REGAL as a good automobile—not just a common ordinary car—but a STRONGER, BETTER-BUILT, BETTER-LOOKING, MORE EFFICIENT and economical vehicle for transportation. Frankly speaking: Wouldn't you like a local agency for a car like THIS—backed by a big factory and a masterful organization of progressive, brainy men. By REGAL'S constant co-operation and your earnest effort it can be made to pay you well. The REGAL proposition is very liberal. SOME EXCELLENT TERRITORY IS OPEN. It is well worth your while to investigate at once. Touring Car \$1085 Roadster Regal Motor Car Co. 220 Piquette Ave., Detroit, Michigan

For Framing A beautiful half-tone print of the Kansas State Capitol 12 1/2 x 25 1/2 inches, only a limited number. Send 10c today coin or stamps. POSTAGE PREPAID CAPPER ENGRAVING CO. TOPEKA, KANS.

Run on Kerosene—6c for 10 Hours Ellis Engines develop more power on cheap lamp oil than other engines do on high-priced gasoline. Will also operate successfully on distillate, petrol, alcohol or gasoline. Strongest, simplest, most powerful engine made; only three working parts. No cranking, no excessive weight, no carbonizing, less vibration, easy to operate. HORIZONTAL ENGINE VERTICAL ENGINE Have patent throttle, giving three engines in one; force-feed oiler; automobile type muffler; ball-bearing governor adjustable while running and other exclusive features. Every engine sent on 30 days' approval with freight paid. 10-year guarantee. Write for 1915 catalog, "Engine Facts," showing New Models with special prices. ELLIS ENGINE CO., 2811 East Grand Boulevard, Detroit, Mich.

LUMBER MILLWORK & SUPPLIES DIRECT IN CAR LOTS AT WHOLESALE PRICES SEND TO DAY FOR THIS FREE BOOK AND PRICES SAVE 20% TO 40% NET Build now. Lumber prices are down. Labor is cheap. We sell you lumber, shingles, doors, windows, columns, mouldings—everything in building material at wholesale prices. Buy direct from the big producers located in the heart of the finest lumber region of Louisiana. Send Name and Address for Big Free Book Today Material for almost any house or barn will make a car. Club with your neighbor if necessary. The book makes it everything simple and plain Satisfaction guaranteed. It costs nothing to investigate Write today—get the book. ALLEN MFG. CO., Ltd. Dept. M SHREVEPORT, LA. IN THE HEART OF THE LUMBER REGION

FREE This Famous Sewing Awl You can sew old or new harness, saddles, canvas, tents, rugs, carpets, quilts, shoes, grain bags and many other things. You can use any kind of thread in the Myers Awl, and it makes a lock stitch same as a sewing machine. It is very simple; a woman can use it as well as a man. It is one of the most practical devices ever invented. They are put up with two needles; one is straight and one curved, with a small screw driver and wrench combined. Also a reel of waxed thread with each awl ready for use. The cut does not show full size. With needle the awl is 6 1/2 in. long. It is the Myers Famous Lock Stitch Sewing Awl. It is the only Sewing Awl made with a groove running the full length of the needle, so as not to cut the thread when sewing, and has what is known as a diamond point. Every teamster and farmer should own a Myers Lock Stitch Sewing Awl, as there is use for one in almost every household. The Myers Awl is nicely finished, the metal parts are nickel plated, the needles and wrench are kept in the hollow handle which has a screw top. Anyone who will send \$1.25 to pay for a one-year's subscription to our big farm paper can select one of Myers' Lock Stitch Sewing Awls, which we will send by mail, postage paid, as a free premium. Use Coupon below.

MAIL AND BREEZE is the biggest and best farm journal in the West with over 100,000 readers. Established in 1873. Price, 1 yr., \$1.00. The best edited farm journal in America. Pub. Mail and Breeze, Topeka, Kan. Dear Sirs:—Enclosed please find \$1.25. Send me your paper regularly for 1 year, and one of the famous Lock Stitch Sewing Awls free and prepaid. Name P. O. County State R.R.No.

1915 MODEL 22 Cal. HUNTING RIFLE Free A REAL GUN. Take-Down pattern, with latest improvements, walnut stock and grip. Shoots accurately 25 long or short cartridges. Handsome, durable. SEND NO MONEY only your name and address for my easy plan of securing this fine rifle Absolutely Free express prepaid. Write today. D. W. BEACH, Box 52, Spencer, Ind. FREE COWBOY Watch Fob Here is the most unique, popular novelty of the year—a nifty little leather holster and metal gun, an exact duplicate of a "44" Army Colt, with bright polished barrel and cylinder, black handle. Gun 2 1/2 in. long. Holster 3 1/2 in. long, genuine leather, tan color. Makes a neat appearing and serviceable watch fob or can be worn on belt as ornament. Worn by men, women, boys and girls. The one real western novelty. Sold in big cities at a high price. Send 10c to pay for 6-month trial subscription to our big home and family magazine and receive the COWBOY WATCH FOB and GUN free. Address: The Household, Dept. Fob-272, Topeka, Kan.

FARMERS CLASSIFIED PAGE

Advertisements will be inserted in this department for 5 cents a word each insertion for one, two or three insertions. Four or more insertions 4 1/2 cents a word each insertion. Remittances should preferably be by postoffice money order. All advertisements are set in uniform style. No display type or illustrations admitted under any circumstances. Each number or initial counts as one word. Guaranteed circulation over 110,000 copies weekly. The rate is very low for the large circulation offered. Farmers Mail and Breeze is the greatest classified advertising medium in the farm paper field. It carries the most classified advertising because it gives the best results. Here is a splendid opportunity for selling poultry, livestock, land, seeds and nursery goods, for renting a farm, for securing help or a situation, etc., etc. Write for proof that it pays. Everybody reads these little ads. Try a classified for results.

POULTRY

PLYMOUTH ROCKS.

BARRED ROCK COCKERELS \$1 UP. MRS. R. S. Fish, Waverly, Kan.

WHITE ROCK COCKERELS \$1.50 TO \$2.00. C. E. Wisler, Harper, Kan.

WHITE ROCK COCKERELS, \$1 AND \$1.50. Edna Eckert, Moline, Kansas.

THIRTY WHITE ROCK COCKERELS, \$2.00 each. J. C. Bostwick, Hoyt, Kan.

BUFF ROCK COCKERELS FOR SALE. William A. Hess, Humboldt, Kan.

FINE BARRED ROCK COCKERELS, \$2 each. Christina Basil, Lebo, Kan.

ONE HUNDRED WHITE ROCKS FOR SALE. W. T. Blackwill, Quinter, Kan.

BUFF ROCK COCKERELS, PURE BRED. E. L. Stephens, Garden City, Kan.

CHOICE BARRED ROCK COCKERELS \$2 each. J. H. Clayton, Marietta, Kan.

WHITE ROCK COCKERELS \$2 AND \$3. Mrs. E. V. Cordonnier, Wathena, Kan.

WHITE ROCK COCKERELS, PRICE \$1.50 to \$3.00. S. M. Chestnut, Holton, Kan.

BARRED ROCK COCKERELS, \$1.00 AND \$2.00. F. C. Gerardy, Clay Center, Kan.

BARRED ROCKS—FIFTY COCKERELS, \$2 up. Mrs. P. A. Pettis, Wathena, Kan.

PURE BRED BARRED ROCK COCKERELS \$1.50 each. Jas. Kesl, Belleville, Kan.

BUFF ROCK COCKERELS, \$1.50, \$2.00, \$5.00. Mrs. M. E. Stevens, Humboldt, Kan.

PURE BARRED ROCK COCKERELS \$1 and \$2.00 each. Mrs. Wm. Sluyter, Jewell, Kan.

BIG TYPE BARRED ROCKS, SHOW birds and breeders. A. H. Duff, Larned, Kan.

GUARANTEED BARRED ROCK COCKERELS, \$2.00 each. Harry Cummins, Toronto, Kan.

FOR FINE BARRED ROCK COCKERELS inquire of Wm. C. Mueller, Route 4, Hanover, Kan.

BARRED ROCK COCKERELS, WELL barred, \$1.50 each. Mrs. John M. Blough, Bushong, Kan.

BARRED ROCKS, COCKERELS, PULLETS, Ringlet strain, \$2.00. E. W. Caywood, Clifton, Kan.

BUFF ROCKS, WEIGHERS, LAYERS. Prices reasonable. Mrs. Lloyd Clark, Hazelton, Kan.

PURE BARRED ROCKS, COCKERELS, high class, \$1.00 each. W. E. Brewer, Mayetta, Kan.

BIG TYPE, BLUE BARRED ROCKS, COCKERELS \$2.00, fine birds. Mrs. T. B. Mitchell, McPherson, Kan.

PURE BRED BARRED PLYMOUTH ROCK COCKERELS, \$1.00 to \$5.00 each. Mrs. C. N. Bailey, Lyndon, Kan.

BUFF ROCKS; PURE, COCKERELS \$2.50 each. Pullets \$12.00 doz. Mrs. Ike Saunders, Elk City, Kansas.

MAMMOTH SNOW WHITE ROCKS—BRED for 10 years for size and quality. Charles Vories, Wathena, Kan.

HIGHEST QUALITY "RINGBARD" ROCKS. Males, females. Bargains. Mrs. Edward N. Hall, Junction City, Kan.

FOR SALE—PURE BRED BUFF ROCK COCKERELS. Write me for prices. R. Houdyshell, Pawnee Rock, Kan.

BUFF ROCKS, THIRTEEN YEARS' successful breeding. Cockerels for sale. Mrs. Homer Davis, Walton, Kan.

WEIGHER-LAYER BARRED ROCKS, 106 premiums. Early cockerels \$2.00 up. W. Opler, Clay Center, Kansas.

PURE BARRED ROCK COCKERELS. Twenty years' experience. Mrs. Alice Ilhan, Lawrence, Kan., R. 4.

BARRED ROCKS, WINNERS, COCKERELS \$1.50 to \$5. Both matings. J. B. Chance, Smith Center, Kan.

BARRED ROCK COCKERELS FROM selected stock, \$1.50 each. Geo. J. Klein, Ellinwood, Kan., Route 2, Box 16.

BARRED ROCKS, WINNERS EVERYWHERE. Cockerels, cockerel bred, \$3.00-\$7.00. Chas. Colten, Valley, Neb.

WHITE ROCK COCKERELS FROM PRIZE winning stock, \$2.00 to \$3.00. Photo free. Mrs. John Ramsey, Fort Scott, Kansas.

BARRED P. ROCK COCKERELS, \$3.00; 2 for \$5.00. Guarantee money back if not satisfied. A. L. Liston, Garden City, Kan.

BARRED ROCKS—25 FINE COCKERELS, 60 pullets. Best of breeding and quality. \$1.00 each. G. M. Shepherd, Lyons, Kan.

100 ROYAL BLUE RINGLET BARRED Rock cockerels and pullets, scoring 9 1/2 and better. Write for prices and description today. A. L. Hook, North Willow Poultry Ranch, Box 456, Coffeyville, Kan.

PLYMOUTH ROCKS.

30 WHITE ROCK COCKERELS DURING January \$1 and \$2 each. Excellent show record. Nellie McDowell, Garnett, Kan.

THE NEXT 30 DAYS WILL SELL MY Barred Rock cockerels \$2.00 each; good laying strain. Mrs. John Yowell, McPherson, Kan.

TWO BREEDS—PURE BRED BARRED and White Plymouth Rock cockerels and pullets from prize winners. H. F. Hicks, Cambridge, Kan.

THOROUGHBRED BARRED PLYMOUTH Rock cockerels, pen mated, farm raised. Price \$2.00 and \$3.00 each. Mrs. James Aitken, Severy, Kan.

PLYMOUTH ROCKS THAT ARE BARRED. Cockerels for sale, both matings, bred from Kansas State and Federation show winners. C. V. La Dow, Fredonia, Kansas.

BARRED ROCKS EXCLUSIVELY. A FINE lot of top notch farm raised cockerels \$2.50 to \$5.00. Also a few choice hens and pullets \$1.50 and \$2.00. L. P. Nichols, Kirwin, Kan.

BARRED ROCKS—BACK AGAIN WITH some dandy good ones. Cockerels \$1.50 to \$3.00. Pullets \$1.00. Mated pens of choice pullets and cockerels at reasonable prices. James H. Parsons, Quinter, Kan.

ONE HUNDRED RINGLET BARRED ROCK COCKERELS for sale. Both matings. Barred to skin. Prices \$1 to \$5. Write me your wants quick. Only thirty days' sale. M. P. Thielen, Barred Rock Fancier, Lucas, Kan.

BARRED ROCKS. 300 BIRDS FOR immediate shipment. We lead, others follow. Won more prizes at Southwestern show than any other exhibitor. Vice Pres. and Sec'y of State Barred Rock Club. Fred Hall, Lone Wolf, Oklahoma.

"OAK HILL" BARRED PLY. ROCKS have bright sharp cut barring, fine shape and type, large bone. Grand winning and laying line. Cockerels \$2.00, \$2.50, \$3, and \$5.00 each. Birds returned at my expense if not satisfactory. J. M. Detwiler, Dunlap, Iowa, Route 2.

RHODE ISLAND REDS.

ROSE COMB RED COCKERELS, \$1.00. May Gill, Piedmont, Kan.

S. C. RED COCKERELS, SCORED. Gertrude Haynes, Meriden, Kan.

ROSE COMB VELVET REDS. MRS. LIZ-zie Paige, White City, Kan.

CHOICE R. C. RED COCKERELS \$1 AND \$2. R. R. Foshee, Piedmont, Kan.

LARGE, BRILLIANT DARK RED; BOTH combs. Cockerels. M. Jackson, Brewster, Kan.

CHOICE ROSE COMB RED COCKERELS. Reasonable. Mrs. Charles Hill, Toronto, Kansas.

LARGE, BRILLIANT, DARK RED, ROSE Comb cockerels. Sunnyside Farm, Havensville, Kan.

CHOICE S. C. RED COCKERELS, LARGE, dark red, well bred. Mrs. W. L. Maddox, Hazelton, Kan.

LARGE PURE SINGLE COMB RHODE Island Red cockerels \$2.00 each. O. C. Duprey, Clyde, Kan.

50 EXTRA GOOD SINGLE COMB RED COCKERELS, prices reasonable. C. E. Florence, Eldorado, Kansas.

THOROUGHBRED S. C. RED COCKERELS, two and three dollars. Extra fine. Mrs. L. J. Loux, Scott City, Kan.

S. C. REDS, EVERY BIRD A HIGH SCORE show bird. Cockerels or pullets as low as \$2, and up. W. F. Brown, Byron, Okla.

BIG BONED, FARM RAISED, RHODE IS-land Red cockerels for farmers and fanciers at attractive prices. H. A. Sibley, Lawrence, Kan.

FOR QUICK SALE, 30 ROSE COMBED R. I. Red cockerels and 50 pullets, \$1.00 each. Eggs after Feb'y 1st. F. B. Severance, Lost Springs, Kan.

ROSE COMB REDS, COCKERELS \$2. Bred from winners at American Royal, Kansas State Fair, Oklahoma State Fair, Baldwin Red Farm, Conway, Kansas.

CHOICE R. C. RED COCKERELS, ONE and two dollars. No smut, no white feathers. Breeding thoroughbred Reds only for six years. F. Borden, Winona, Kan.

SINGLE COMB RED PULLETS EIGHT dollars per dozen. Three dozen or more seven dollars. Orders booked now for eggs from good range flock four dollars per hundred. Three hundred or more three fifty. Delivery any time after March fifteenth. H. A. Bushby, Rydal, Kan.

100 ROSE COMB RHODE ISLAND RED COCKERELS and cockerels that have shape, color and size. Sired by roosters costing from \$15.00 to \$75.00. \$1.50, \$3.00, \$5.00, \$7.50, \$10.00 each; a few higher. No better bred birds. Pens mated for 1915 are by far the best we ever had. W. R. Huston, Americus, Kan.

BLUE ANDALUSIANS.

QUALITY BLUE ANDALUSIAN COCKER-els from \$2.00 to \$5.00, for sale at A. A. Neufeld, Route 4, Inman, Kan.

LEGHORNS.

SINGLE COMB WHITE LEGHORNS \$1.00. Will Tonn, Haven, Kan.

S. C. W. LEGHORN COCKERELS. MRS. W. R. Hildreth, Oswego, Kan.

S. C. W. LEGHORN COCKERELS, \$1. MRS. Mamie Immer, Mullinville, Kan.

SINGLE COMB BROWN LEGHORN COCK-erels. C. A. Lucas, Route, Lewis, Kan.

PURE ROSE COMB BROWN LEGHORN COCKERELS, 75c. Dell Rowe, Sharon, Kan.

BUFF LEGHORN COCKERELS, \$1.00 EACH, 6 for \$5.00. John A. Reed, Lyons, Kansas.

S. C. WHITE LEGHORN COCKERELS. Scored. \$1.50 up. J. E. Gish, Manhattan, Kan.

S. C. BROWN LEGHORN COCKERELS \$1.00 each. 6 for \$5.00. Mrs. F. E. Tonn, Haven, Kan.

50 PURE BRED SINGLE COMB BROWN Leghorn cockerels \$1.50 to \$2. Paul Grill, Ellsworth, Kan.

SINGLE COMB WHITE LEGHORNS. Choice lot of cockerels at 6 for \$5.00. Alex Spang, Chanute, Kan.

MY FAMOUS S. C. W. LEGHORNS WIN everywhere. Cockerels and pullets, \$1 up. Geo. Patterson, Lyndon, Kan.

ROSE COMB BROWNS THAT WON THE blues at Hutchinson State Fair, \$1.00 and upwards. Otto Borth, Plains, Kan.

S. C. W. LEGHORN COCKERELS, D. W. Young strain. Bred from Young's first pen. \$1.00. G. W. Buck, Larned, Kan.

PURE SINGLE COMB WHITE LEGHORN COCKERELS, \$1.50 each. Satisfaction guaranteed. John Walters, Fall River, Kan.

10 PURE BRED SINGLE COMB WHITE Leghorn cockerels, \$1.50 each. 10 for \$12.00. Cassie Springstead, Madison, Kan., Route 4.

PURE BRED SINGLE COMB BROWN Leghorn cockerels for \$1.50 to \$2.50. Best laying strain. Satisfaction guaranteed. R. Merideth, Kiowa, Kan.

250 YOUNG'S STRAIN S. C. WHITE LEG-ghorn cockerels, \$2 each and up. Best laying and exhibition strain on earth. Satisfaction or money back. White Wing Poultry Farm, Box D, Perry, Iowa.

S. C. BROWN LEGHORN AND WHITE Rock cockerels. I won 1st on cockerel, 1st on pullet, 1st on pen State Fair. Same at Bucklin, Meade and Liberal, \$1.50 up. Yours for business. H. N. Holdeman, Meade, Kan.

ORPINGTONS.

BUFF ORPINGTON COCKERELS \$1.00 TO \$2.50. Alvin Miller, Overbrook, Kan.

BUFF ORPINGTON COCKERELS AND pens. Mrs. T. N. Beckey, Linwood, Kan.

GERTRUDE GEER'S GOLD NUGGET strain Buff Orpington cockerels. Winfield, Kan.

FINE, LARGE, WHITE ORPINGTON COCK-erels \$1.25 each. Bertha Reed, Attica, Kan.

SINGLE COMB BUFF ORPINGTON COCK-erels, \$1.25 each. Edith Shelby, Moline, Kan.

CRYSTAL WHITE ORPINGTON COCKER-els, \$1.50 and \$2.50 each. Almeda Foster, Burr Oak, Kan.

S. C. BUFF ORPINGTON COCKERELS. One dollar. Mrs. L. Sweany, R. 7, Man-hattan, Kansas.

WHITE ORPINGTON COCKERELS, PURE bred, \$2 to \$3 each. John Van Amburg, Marysville, Kansas.

S. C. BUFF ORPINGTONS, COCKERELS and cocks \$2 to \$10. Hens \$1 to \$3. Mrs. Grant Stafford, Winfield, Kan.

BUFF ORPINGTONS—25 YEARLING COCK birds for sale, of rare quality; can please you. Aug. Petersen, Churdan, Ia.

S. C. BUFF ORPINGTON COCKERELS for sale. Farm raised. \$1.50 to \$2.50 apiece. Fred Mowry, Bellefonte, Kan.

WHITE ORPINGTONS—KELLERSTRASS-Carry strains. Stock and eggs for sale. prices right. H. B. Humble, Sawyer, Kan.

PURE BRED BUFF ORPINGTON COCK-erels, well developed, good size, from \$1.50 to \$5.00 each. Wm. Gutzmer, Box 33 1/2, R. 8, Sizer Ave., Lincoln, Neb.

BUFF ORPINGTON CKLS. WINNINGS, Topeka, fourth cl.; Emporia, first cock, first hen, second pullet, second pen. Prices right. A. R. Carpenter, Council Grove, Kan.

WHITE ORPINGTON COCKERELS, \$3 each. Parent stock Kellerstraus' \$30 mat-ings. Eggs \$2 and \$1 per fifteen. Utility \$5 per hundred. Mrs. W. Patterson, Yates Center, Kan.

CRYSTAL WHITE ORPINGTONS, FINE, healthy, vigorous stock. Bred for heavy winter laying. Eggs \$1.50 per fifteen. Cock-erels, \$2.50 to \$4.00 each. Urbansale Poul-try Farm, 416 Butts Bldg., Wichita, Kan.

HOUDANS.

CHOICE HOUDAN COCKERELS \$2.00. Mrs. Aug. Smith, Cleburne, Kan.

WYANDOTTES.

WHITE WYANDOTTE COCKERELS. Alvin Miller, Overbrook, Kan.

WHITE WYANDOTTES \$1 AND UP. MRS. M. F. Austin, Miltonvale, Kan.

WHITE WYANDOTTES—SILVER CUP winners. A. C. Akey, Belleville, Kan.

WHITE WYANDOTTE COCKERELS \$3 each. Margaret Ribean, Twin creek, Kan.

BUFF WYANDOTTE COCKERELS \$1.00 each. Mrs. Mitch Lowe, Pierceville, Kan.

WHITE WYANDOTTES, GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

GOLDEN WYANDOTTE COCKERELS scoring to \$4. D. Lawver, Route 3, Weir, Kan.

GOLDEN WYANDOTTES, WINNERS AT Topeka State Show. M. M. Donges, Belle-ville, Kan.

WHITE WYANDOTTE COCKERELS FOR sale \$1 each. E. M. Collister, Manhattan, Kan., R. 4.

WHITE WYANDOTTE COCKERELS, EX-tra good, \$2 to \$4. Ideal Poultry Yards, Wayne, Kan.

WHITE WYANDOTE COCKERELS—FINE large heavy bone fellows. Andrew Kosar, Delphos, Kan.

BUFF WYANDOTTES, GOOD SOLID BUFF pullets for sale. Prices reasonable. Albert Sims, Americus, Kan.

WHITE WYANDOTTE COCKERELS. Scored. Range raised. \$1.50 to \$5.00. F. S. Teagarden, Odell, Neb.

FOR SALE: THOROUGHBRED PART-ridge Wyandotte cockerels. Address Re-becca Jones, Lyndon, Kansas.

QUALITY WHITE WYANDOTTES, COCK-erels, pens, Trios. Write for prices. Mrs. M. E. Johnson, Humboldt, Kan.

SILVER LACED WYANDOTTES, PURE bred. Farm raised, early hatched cock-erels \$1.50. Oscar Adee, Wells, Kan.

SILVER WYANDOTTES, YES, I AM still selling Silver Wyandottes, the breed that lay. M. B. Caldwell, Broughton, Kan.

PARTIDGE WYANDOTTES, COCKER-els, prize winners, \$1.50 to \$5.00. Eggs, setting \$1.25. Hattie Countryman, Thayer, Kan.

PUREBRED SILVER WYANDOTTE COCK-erels, beautifully marked, large size, \$2 to \$3. Mrs. Wm. Schulze, Creston, Neb., Route 1.

SILVER LACED WYANDOTTE COCKER-els from \$2.00 to \$5.00 each; extra well marked, high scoring. Elizabeth Littleton, Guymon, Okla.

ROSE COMB GOLDEN WYANDOTTE COCKERELS \$1.00 and \$1.50 per head. Farm run. Exclusively raised. Eggs in season. C. Folgate, Stanberry, Mo.

SILVER LACED WYANDOTTES, PRIZE winners, good layers, all birds scored. Cockerels from \$1 to \$5. Eggs \$1 and \$2 setting. J. L. Galloway, Foss, Okla.

SILVER WYANDOTTES EXCLUSIVELY. Farm raised. Tarbox strain. From prize winning stock. Choice cockerels \$1.50, \$2.00, \$2.50, \$3.00. Mrs. Edwin Shuff, Plevna, Kan.

LANGSHANS.

WHITE LANGSHAN COCKERELS. WM. Wischmeier, Mayetta, Kan.

WHITE LANGSHAN COCKERELS, EGGS in season. Mattie Rowe, Lane, Kan.

BLACK LANGSHANS, PRIZEWINNERS. Write Mary McCaul, Elk City, Kansas.

BLACK LANGSHAN COCKERELS, SCORED by Rhodes. Martha Haynes, Grantville, Kan.

WHITE LANGSHANS, GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

FINE BLACK LANGSHAN COCKERELS \$1.25 each. (Eggs.) Mrs. Church, Bur-lington, Colo.

BLACK LANGSHAN COCKERELS AS large and black as they grow. Geo. W. Shearer, Lawrence, Kan.

BLACK LANGSHAN COCKERELS AND pullets. Best of breeding reasonable, if taken soon. W. S. L. Davis, Nickerson, Kan.

PURE BLOOD BLACK LANGSHAN COCK-erels; scored; of the Iowa strain; guaran-tee satisfaction. Chas. Leeper, Harper, Kan.

30 BLACK LANGSHAN CKLS. AT \$1.00 TO \$3.00 each. Positively no better Lang-shans bred. J. A. Lovette, Poultry Judge, Mullinville, Kan.

MINORCAS.

ROSE COMB BLACK MINORCA COCKER-els. Northrup strain. John J. Lowe, Amer-icus, Kan.

BUTTERCUPS.

SICILIAN BUTTERCUPS, ALL GRAND specimens. Hatch guaranteed. Circular free. Doctor Stevens, Caney, Kansas.

TURKEYS.

TURKEYS WANTED. THE COPE'S, TOPEKA. PURE BOURBON RED TURKEYS. FAY EGY. Turon, Kan. MAMMOTH BRONZE TOMS \$3.50. ED Lockwood, Kinsley, Kan. CHOICE BOURBON RED TURKEYS. MRS. S. J. Henry, Belleville, Kansas. WHITE HOLLAND TURKEYS. PRICES free. Grace Garnett, Marion, Mo. MAMMOTH BRONZE TURKEYS. MRS. O. H. Browning, Uniontown, Kan. PURE BRED BOURBON RED TURKEYS. John Carroll, R. R. 2, Lewis, Kan. PURE BOURBON RED TURKEYS. Nettie McCormick, Yates Center, Kan. MAMMOTH WHITE HOLLAND TURKEYS. Mrs. W. U. Stevens, Paradise, Kan. MAMMOTH BRONZE TOMS FROM PRIZE strain, \$5.00. Ross Knoll, Holton, Kan. EXTRA FINE, LARGE, WHITE HOLLANDS. Mrs. S. J. Bloem, Pratt, Kan. PRIZE WINNING MAMMOTH BRONZE TOMS \$5.00. Geo. Heath, Harper, Kan. WHITE HOLLAND TURKEYS. TOMS \$3, hens \$2. Mrs. R. A. Lewis, Timken, Kan. THOROUGHBRED MAMMOTH BRONZE turkeys. Letha Parkhurst, Plainville, Kan. PURE BOURBON RED TURKEY TOMS, \$3.50. Mrs. Bessie Fuller, Blackburn, Okla. 168 WHITE HOLLAND TURKEYS. UNrelated stock. Mary Culver, King City, Mo. NARRAGANSETT TURKEYS. HENS AND TOMS. Mrs. S. W. Rice, Wellsville, Kan. WHITE HOLLAND TURKEYS. LARGE, fine stock. Charles Vorles, Wathena, Kan. MAMMOTH WHITE HOLLAND TOMS \$2.75. Hens \$2.50. Alice Ganselman, Wakefield, Kan. THOROUGHBRED BOURBON RED TURKEY TOM \$2.50. Mrs. H. Passmore, Wayne, Kan. MAMMOTH BRONZE TURKEYS. TOMS \$5. Hens \$4. W. B. Williams, Carlton, Kan. BOURBON RED TURKEYS. TOMS \$2.50. Hens \$2.00. D. B. Snyder, Richmond, Kan. BOURBON RED TURKEYS FOR SALE, priced right. Mrs. Geo. Parks, Hewins, Kan. LARGE, FULL BLOOD BOURBON RED turkeys for sale. Emma Lamb, Havana, Kan. PURE BRED BOURBON RED TURKEYS. Prices reasonable. Mrs. Ross Ely, Turon, Kan. FINE BOURBON RED TURKEYS; PRICE reasonable. Hattie Hart, Eureka, Kan., R. 2. 8 LARGE WHITE HOLLAND TOMS \$4.00 each. Cassie Springstead, Madison, Kan., Route 4. WHITE HOLLAND TURKEYS. TOMS \$2.00, hens \$2.00. Mrs. Jane Thompson, Cambridge, Kan. EXTRA GOOD MAMMOTH BRONZE TURKEYS. No eggs. Mrs. G. L. Mathews, Kinsley, Kan. FULL BLOOD BRONZE TURKEY TOMS, \$4.00. Hens \$2.50. Mrs. Roy Brubaker, Dexter, Kan. EXTRA LARGE, PURE WHITE HOLLAND TOMS \$4.00, hens \$2.50. Mrs. Will Jones, Wetmore, Kan. THOROUGHBRED BOURBON RED TURKEYS. TOMS \$4. Hens \$3.00. James Butler, Glasco, Kan. BIG BONED PURE BRED BOURBON turkeys. Unrelated trios. Mrs. Sam Clark, Hazelton, Kan. TURKEYS—WHITE HOLLAND, EITHER sex. Write me your wants. Andrew Kosar, Delphos, Kan. PURE BOURBON RED TURKEYS. 20 LB. TOMS \$2.50, 12 lb. hens \$3.00. W. H. Surber, Peabody, Kan. THOROUGHBRED BRONZE TURKEYS. TOMS \$5.00, weight 25 lbs. Mrs. C. L. Worley, Utopia, Kan. MAMMOTH BRONZE TURKEYS FOR SALE. Sire prize winner, weight 50 lbs. L. R. Wiley, Elmdale, Kan. WHITE HOLLAND TURKEYS. RIGHT weights, good markings, right price. Wm. Turley, Bancroft, Kan. BOURBON REDS. STANDARD VARIETY. Standard weight. TOMS \$5. Hens \$3. May Gill, Piedmont, Kan. BOURBON RED TURKEYS. TOMS \$4. Hens \$3. Non-related trios \$9. Eggs \$3. H. B. Humble, Sawyer, Kan. BOURBON RED TOMS \$4.00. AFTER FEB. 1st \$5.00. Eggs in season 25c each. Mrs. F. B. Tuttle, R. 2, Chanute, Kan. THOROUGHBRED BOURBON RED TURKEYS. No relation. TOMS \$4. Hens \$3. Nellie Hopkins, Sedan, Kan., Rt. 1. THOROUGHBRED BOURBON RED TURKEYS. Large bone. Hens \$3. TOMS \$4. Mrs. Russ Robinson, Centralia, Kan. MAMMOTH BRONZE TURKEY TOMS, \$2 to 28 lbs, each, \$6. A few hens at \$3. Herbert H. Smith, Smith Center, Kan. BOURBON RED TURKEY EGGS FROM 2 yards unrelated, \$3 for 11. Large, well colored birds. Prize winners. Directions for raising and receipt for homemade lice powder free. Ringlet Barred Rock eggs. Mrs. C. B. Palmer, Uniontown, Kan.

TURKEYS.

LARGE WHITE HOLLAND TURKEYS. Extra large. Fine and healthy. TOMS \$5.00. Hens \$4.00. Chas. W. Zabel, Wetmore, Kan. FOR SALE—M. B. TURKEY TOMS. FROM prize stock. Weight 25 to 30 lbs. Satisfaction guaranteed. Geo. Herrick, Twinbrook, Kan. PURE BRED MAMMOTH BRONZE TURKEYS, quality good, healthy stock. TOMS \$5, hens \$2. Mrs. Homer Rawlings, Eureka, Kan. PERKINS' BRONZE TURKEYS HAVE won more prizes wherever shown than all others combined. No better blood in America. G. W. Perkins, Newton, Kan. MAMMOTH WHITE HOLLAND TURKEYS, sired by a 40-pound tom at 18 months. TOMS \$5.00. Hens \$4.00. Trio \$13.00 while they last. W. E. Monasmith, Formoso, Kan. THOROUGHBRED MAMMOTH BRONZE turkeys from state show first prize winning stock for generations. At Kan. State Poultry Federation show at Independence, Dec., 1913, won first, second and third okls., first, second and fifth hen and first and second pullet. Mrs. James Altken, Severy, Kan.

DUCKS.

DUCKS WANTED, THE COPE'S, TOPEKA. INDIAN RUNNER DUCKS. BOTH SEXES. Mrs. Wm. Stuyter, Jewell, Kan. LARGE WHITE PEKIN DRAKES AND HENS. H. Beck, Whitewater, Kan. INDIAN RUNNERS, SILVER CUP WINNERS. Bert White, Burlingame, Kan. WHITE RUNNER DRAKES \$1.00 EACH. Mrs. C. B. Heierman, Burlington, Kan. PENCILLED RUNNER DRAKES, \$1.00. Fancy stock. Orvis Berry, Fairfield, Neb. CHOICE WHITE INDIAN RUNNER drakes. Arthur Carpenter, Council Grove, Kan. THOROUGHBRED MAMMOTH WHITE Pekin ducks. Myrtle M. Duncan, Route 2, Topeka, Kan. PURE WHITE INDIAN RUNNER DUCKS. Drakes \$1.00 each. Pure bred. Mrs. Wm. Brooks, Beatlie, Kan. WHITE INDIAN RUNNER DUCKS, PURE white egg strain, \$4.50 trio. Mrs. E. D. Ludwig, Waynoka, Okla. FAWN-WHITE RUNNER DUCKS AND drakes. Choice stock. White egg strain. \$1.00 each. J. T. Bates, Springhill, Kan. 25 MAMMOTH PEKIN DUCKS, SCORING as high as 96%, never failed to set 1st prize. \$1.50 to \$2.00 each. F. C. Swiarczynski, Belleville, Kan.

BRAHMAS.

LIGHT BRAHMA COCKERELS, \$1 AND UP. Mrs. Mark Johnson, Bronson, Kan. PURE LIGHT BRAHMA COCKERELS AND pullets for sale. Mm. Pifer, Washington, Kan. THE PAST HISTORY AND SHOW WINNINGS of my Light Brahmas is recommendation enough to convince any one wanting stock and eggs to send for my pictorial price list. Mrs. J. R. Kenworthy, Wichita, Kan. 20 years in the business.

RHODE ISLAND WHITES.

FOR SALE—ROSE COMB RHODE ISLAND Whites, pullets and cockerels from first prize winners in big shows. Write for prices. Mrs. J. M. Post, Colony, Kan. LARGE, EARLY ROSE COMB RHODE ISLAND White cockerels from prize winning stock; 2 strains; \$1, \$2, \$3. Laying pullets \$5.00. Col. Warren Russell, Winfield, Kan.

CORNISH.

FINE CORNISH COCKERELS, \$1.25 TO \$3.00. Dan Neher, McCune, Kan. DARK CORNISH COCKERELS—PRIZE winners. Fred Sleglinger, Lone Wolf, Okla.

BANTAMS.

BUFF COCHIN BANTAM COCKERELS \$1.25 each. Eggs in season. Mrs. Church, Burlington, Colo.

GEESE.

THOROUGHBRED TOULOUSE GEESSE, weight 15 to 18 lbs. \$4.00 pair. P. B. Cole, Sharon, Kan.

CAMPINES.

GOLDEN CAMPINES, RIBBON WINNERS, cheap. Ben Miller, Langdon, Kansas.

SEVERAL VARIETIES.

RABBITS, GUINEAS, CAPONS WANTED. The Cope's, Topeka. ROSE COMB REDS, SILVER LACE WYANDOTTES. Mrs. Ola Elliott, Delphos, Kan. BOURBON RED TURKEYS AND S. C. Buff Orpington cockerels. Mrs. Frank Neel, Beverly, Kan. BOURBON RED TOMS, \$5.00. S. C. Buff Orpington cockerels, \$3.00. Mrs. Raleigh Weaver, Wakefield, Kan. PUREBRED S. C. W. LEGHORN AND W. Rock cockerels, \$1.00 each or six for \$5.00. J. R. Haywood, Hope, Kan. S. C. W. LEGHORN COCKERELS. Indian Runner drakes. Write for bargain prices. O. N. Keller, Le Roy, Kan. RED BOURBON TURKEYS, STANDARD markings, large and healthy. Price \$2.50 to \$5. Single Comb Rhode Island Red cockerels \$1.00. Satisfaction guaranteed. Rebecca Woodall, Fall River, Kan.

SEVERAL VARIETIES.

FOR NEARLY ALL BREEDS FANCY poultry and eggs, and Duroc hogs, F. Kremer, Manchester, Okla. EXTRA FINE BOURBON RED TOMS. Partridge Rock and Buff Orpington cockerels. Gal. Banbury, Pratt, Kan. 55 PARTRIDGE ROCK AND GOLDEN Wyandotte cockerels and pullets, interesting prices. C. E. Florence, Hiderado, Kansas. FOR SALE—CHOICE R. C. H. LEHGHORN, R. C. R. I. Red cockerels, \$1 each or six for \$5. Mrs. John M. Lewis, Larned, Kan. BARGAIN IF TAKEN SOON. PART-RIDGE Wyandottes, Single Comb Reds, Rose Comb Whites. W. W. Eddy, Havensville, Kan. WHITE HOLLAND TOMS \$4.00, HENS \$2.00. White Pekin drake \$1.50. Fawn and White Indiana Runners \$1.00. Ura Randolph, Calver, Kan. MAMMOTH BRONZE TURKEYS—LARGE, well marked. TOMS \$5. Hens \$3. White Wyandotte cockerels. John Gould, Conway Springs, Kan. FOR SALE—GOLDEN SEBRIGHT BANTAMS, White Wyandottes and White Orpington cockerels. Price \$1 to \$2. Bert Stevens, Vinland, Kan. UTILITY COCKERELS \$2.50 EACH. S. C. White Leghorns, Light Brahmas, Barred Rocks, S. C. R. I. Reds. Poultry Dept. E. S. A. C., Manhattan, Kan. MAMMOTH BRONZE TURKEYS. TOMS \$5.00. Hens \$3.00. Also White Langshan and Brown Leghorn cockerels. Mrs. G. F. Saunders, Deacons, Kan. FOR SALE—WHITE HOLLAND TURKEYS and White Wyandotte cockerels. Reasonable prices. Mrs. Everett Bocher, Route 2, Fredonia, Kan. ROSE COMB WHITE LEGHORN, SILVER Spangled Hamburg, Black Langhans, Bourbon Red turkeys, cockerels. Chas. Graham, Bucklin, Kansas. FISHER'S S. C. BUFF ORPINGTONS. Mated pens, S. C. White Leghorns (from 200 egg hens. Fawn, White Indian Runners, 250 white egg strain. Satisfaction guaranteed. Frank Fisher, Wilson, Kan. COCKERELS—SCORED AND UNSCORED birds at farmer's prices. Indian Runner and other ducks, geese and turkeys. Norfolk Breeders' Co-operative Assn., Norfolk, Neb. FOR QUICK SALE—40 THOROUGHBRED Black Langshan cockerels, weighing 8 to 10 pounds, \$2.75, \$3.00 and \$3.50. Will pay express both ways and refund money, if dissatisfied. Also few White Langshan and Partridge Rock cockerels. Write quick. Frank A. Vopat, Lucas, Kansas.

INCUBATORS.

A BIG, STOUT, LUSTY CHICE FROM every hatchable egg. The proven record of Fairfield Incubators everywhere. Free catalog and poultry book. Sam Thompson, Fairfield Incubator Co., No. 55 Main St., Fairfield, Nebraska.

MISCELLANEOUS.

HENS WANTED, THE COPE'S TOPEKA. EGG CASES 15C EACH, THE COPE'S, TOPEKA. POULTRY RAISERS SUCCEED WITH Mandy Lee Incubators, Lee's Lice Killer, Germosone, and Lee's Egg Maker. Sold by dealers or direct. Send for Catalogs and Lee's Poultry Book. Free. Geo. H. Lee Co., Mfrs., Dept. 27, Omaha, Neb.

LIVE STOCK

STANDARD BRED STALLIONS FOR SALE right. D. H. Bibens, Larned, Kan. THIRTY RED STEER CALVES, TRAINED colles. Jno. Marriage, Mullinville, Kan. MY REGISTERED HOLSTEIN HERD BULL 4 yr. old, cheap. W. H. Surber, Peabody, Kan. REGISTERED DUROC PIGS, THREE months old; weight 80 pounds, \$10. A. V. Balch, Morrilton, Ark. TO TRADE FOR OTHER STOCK, FIVE Mammoth jennets bred to good jack. E. A. Grady, Ravenna, Kan. POLAND CHINA BOARS FOR SALE. Genuine herd headers. Write for prices. W. F. Fulton, Waterville, Kan. FOR SALE—ONE THOROUGHBRED Percheron stallion. One black jack, 4 jennets. W. M. Dice, Tecumseh, Kan. HIGH CLASS JERSEY BULLS AT A BARGAIN; from great dams and ready for service. Chester Thomas, Waterville, Kan. WANTED: PURE BRED PERCHERON OR Belgian stallion. Ton horse preferred. Give measurements, age and price first letter. One quarter section land Trege Co., Kansas, will sell or trade for horses, cattle or sheep. Albert Monson, Weskan, Kansas. FOUR GOOD JACKS FOR SALE. ELIGIBLE to registry. One three year old black jack, 15 hands 3 in. One 10 yr. old grey jack, 15 1/2 hands, weight over 1100 lbs. One six year old black jack, 14 hands 3 in. One yearling jack, jet black with white points, 15 hands 1 in. Priced to suit. Alex Brown, Stone City, Kan.

FARMS WANTED

WANTED—A FARM TO WORK ON shares, owner to furnish everything. Good reference. Box 12, Americus, Kan. SELL YOUR FARM OR BUSINESS QUICKLY for cash no matter where located. Information free. Black's Business Agency, Desk 2, Chippewa Falls, Wis. I HAVE SOME CASH BUYERS FOR SALE-able farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

SEEDS & NURSERIES

ENGLISH BLUE GRASS SEED, \$1.25 PER bu. E. G. Mosher, Shell City, Mo. WHITE SWEET CLOVER SEED \$11 PER bushel. Chas. F. Bedding, Waverly, Kan. STRAWBERRY PLANTS \$2.00 PER 1,000. List free. J. R. Sterling, Judeana, Ark. SWEET CLOVER—WHITE AND YELLOW; biennial; choice seed; prices lower. R. E. Purdy, Falmouth, Ky. SHELLED POP CORN RICE THREE AND one-half cents per pound. Yellow three. A. Fisher, Alma, Kan. PURE RELIABLE SUDAN GRASS. Circular free. Get my prices. Jos. Mitchell, Manager, Sherman, Texas. FOR SALE—500 TONS OF HAY; CORN, kafir corn and cane seed. Ask for prices. A. M. Brandt, Severy, Kan. BUY TREES AT WHOLESALE. SAVE agents' commissions. Catalog free. Wichita Nursery, Box 8, Wichita, Kan. SUDAN, GUARANTEED FREE FROM Johnson grass, 5 to 10 pounds 50c pound. Charlie Clemmons, Verden, Okla. SUDAN GRASS AS GOOD AS THE BEST. 45 cts. per lb., this station, sacks free. W. A. Beaumont, El Dorado, Kansas. WHITE SWEET CLOVER SEED, UNhulled, re-cleaned, fine quality, 17 cts. per pound. R. L. Snodgrass, Harrisburg, Colo. FANCY SWEET CLOVER SEED—PURE white, hulled, re-cleaned; fourteen dollars per bushel. F. O. B. J. F. Sellers, Florence, Kan. E. H. FISHER, ELKHART, KAN., BUYER and shipper of grain and seeds. Maize, kafir, feterita, and cane seed in car lots are less. SUDAN GRASS SEED, 50C POUND PRE-paid. Oklahoma grown. Guaranteed free from Johnson grass. J. S. Massey, Grower, Tipton, Okla. SUDAN GRASS—KANSAS GROWN. GUAR-anteed free from Johnson grass. Officially inspected and approved. Wilson G. Shelley, McPherson, Kan. SWEET CLOVER SEED, PURE WHITE blooming variety. Hulled and re-cleaned. New seed. \$14 a bu., sacks free. Geo. Bingham, Bradford, Kan. SUDAN GRASS SEED, 50C POUND. QUAN-tities less. Pure high grade farm seed. By grower, on experimental farm. G. H. Bramham, Slaton, Lubbock Co., Texas. THE WAY TO MAKE MONEY NEXT YEAR is to buy Lubbock officially inspected Sudan grass seed now and sell seed next season. Price 50 cts. per lb. Box 942, Lubbock, Texas. SWEET CLOVER SEED, PURE WHITE blooming variety. Unhulled, re-cleaned 8c and hulled, re-cleaned 27c per pound. Unhulled \$14 and hulled \$18 per bushel, each of 50 pounds. E. G. Pinnip, Garden City, Kan. SUDAN SEED? GUARANTEED PURE AND reliable. Direct from the grower. Quality highest, and prices lowest. For 30 days only, 50 cts. lb. post paid. Just half price. C. E. White Seed Co., Plainview, Texas. SUDAN—THE WORLD'S GREATEST HAY crop. A limited quantity of seed for sale in 5 and 10 pound lots at 50 cents per pound prepaid; two pounds plants one acre. Reference furnished as to purity of seed and responsibility. Kimbro & Parks, Lubbock, Texas. BUY TREES AND PLANTS AT WHOLE-sale. St. Regis Ever Bearing Red Raspberry. Rockhill's Progressive. Fall Bearing Strawberry. The best varieties of all small fruit plants, and general nursery stock. Free catalog. Box 398, Rosedale, Kansas. Hoisinger Brothers Nursery. SEEDS—WE ARE PREPARED TO BOOK your orders for the following seeds. Alfalfa, cane, white or yellow maize, kafir, feterita; German, golden, Siberian, hog millets; in car load lots or mixed car. We live in the heart of the growing district where the above seed grows. Samples sent on request. L. A. Jordan Seed Co., Winona, Kan. LUMBER LUMBER, SHINGLES, ETC. HOUSE BILLS or straight cars. Bridge and factory bills of best long leaf pine. Save big money. Quick shipments. Satisfaction guaranteed. Mail estimate. Independent Co-operative Lumber Co., Lake Charles, La. 1915—LUMBER! BUY IT RIGHT! WE'LL save you big money. Farmer's trade a specialty. The mill direct to you. Think of it. No. 1 dimension \$10 plus freight. We require no payment until material is unloaded and proven satisfactory. Send bill now, for estimate. Local Lumber Company, Tacoma, Washington. PATENTS SEND FOR FREE BOOKLET, ALL ABOUT Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C. PATENT WHAT YOU INVENT. IT MAY be valuable. Write me. No attorney's fee until patent is allowed. Estab. 1882. "Inventor's Guide" free. Franklin H. Hough, 532 Loan & Trust Bldg., Washington, D. C. MEN OF IDEAS AND INVENTIVE ABIL-ity should write for new "List of Needed Inventions," Patent Buyers and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C. DOGS BULL DOGS FOR SALE. ARTHUR Coles, Mound Valley, Kansas.

LANDS

CALIFORNIA ORANGE AND OLIVE LAND for sale. Lineker Land Co., Palermo, California.

GOOD 120 ACRES, CLOUD COUNTY, IMPROVED. \$5400. Walter Axtell, 1315 Lincoln, Topeka, Kan.

SALE—320 WELL IMPROVED. PARSONS. Second bottom. Cheap. Settle estate. M. E. Lawson, Parsons, Kan.

SMALL, WELL IMPROVED KANSAS farm for good Colorado relinquishment. F. C. Watkins, Hutchinson, Kan.

SELL YOUR PROPERTY QUICKLY FOR CASH. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

FOR SALE, ALL OR PART OF 640 A., 4 1/2 mi. from Co. seat. Good wheat and stock farm. Reasonable and terms. Geo. Shriwise, Jetmore, Kan.

200 ACRES, IMPROVED, ADJOINS COUNTRY seat, east Kansas. Will accept good clear property as first payment. John Billington, Meadville, Mo.

FOR SALE OR EXCHANGE FOR BEST wheat land in eastern Kansas, improved stock and grain quarter, Marshall Co. Webb Vanlew, Axtell, Kan.

740 A. WELL IMPROVED. NEAR SCHOOL, church, telephone, mail. 4 sets improvements. Brick house 10 rooms. \$45,000. Frank Carter, Unionville, Mo.

SPECIAL BARGAINS—SMOOTH, WELL imp. 160, \$6000. Well imp. 80, \$3200. Moderately imp. 80, \$2200. Write for list. James Russell, Edna, Kan.

FOR SALE: 80 ACRES BEST RIVER BOT- tom, good buildings, 1 1/2 miles from St. Marys. Terms and particulars. Address Gottlob Treiber, St. Marys, Kan.

110 ACRES BOTTOM LAND ADJOINING town, creek through place; 5 room house and barn; 54 town lots go with place. Price \$5,500. C. E. Hall, care Hoyt State Bank, Hoyt, Kan.

ARKANSAS LAND—40 ACRES AND UP AT wholesale prices of \$7.50 to \$12 per acre. Central Arkansas. All tillable. Write for full particulars. Trentman, Wichita, Kansas.

160, FIVE MILES LUCAS, 85 CULTIVATED, rest pasture; small house; splendid well water; telephone and rural route. \$30 per acre. H. C. Ruppenthal, owner, Lucas, Kan.

80 A. EXTRA GOOD LAND IN WASH- ington Co.; good improvements, never failing well, 10 a. alfalfa; 4 miles to good town. \$6,000. Mrs. A. Bellows, Webster, Kansas.

QUICK CASH FOR YOUR PROPERTY OR business no matter where located. Low fees. Quick sales. Special terms to owners. Dept. B, Co-operative Salesman Co., Lincoln, Neb.

JEWELL COUNTY, KANSAS. A GOOD, well improved 160 acre farm for sale. Good soil, plenty of water. Owing to ill health, must sell at once. \$10,500.00, good terms. R. M. Cauthorn, Mankato, Kansas.

WANTED—CATHOLIC FAMILIES TO LO- cate around Turon, Kan. New church just built, no debt. Good imp. farms, corn, wheat and alfalfa land. Prices from \$35 to \$60 per a. fine terms. John Collopy Realty Co., Turon, Kan.

PRODUCTIVE LANDS; CROP PAYMENT or easy terms along the Northern Pac. Ry. in Minn., N. D., Mont., Idaho, Wash. and Ore. Free literature. Say what state interests you. L. J. Bricker, 46 Northern Pac. Ry., St. Paul, Minn.

CHOICE 80—1 MI. GOOD TOWN; 65 A. broke, bal. pasture, 20 a. in alfalfa; good imp., well watered; land adjoining could not be bought for less than \$100. This for \$4,500. Will carry \$2,500 at 6%. Also other bargains. Lock Box 24, Elk Falls, Kan.

HALF CASH: 160 ACRES LEVEL IN HAS- kell Co.; 60 acres in cultivation; well and windmill; mile fence. Price \$2,000; four years' time on half at 8%. Four miles from railroad. E. B. McConnell, Owner, Hugoton, Kansas.

HALF SECTION, DECATUR CO., KAN., 2 mi. from trading point, Protestant church, rural route and telephone. Frame house, excellent well. 180 a. broke, bal in pasture and bluestem hay land; 100 a. winter wheat. C. A. Wickham, Norcat, Kan.

2 1/2 MILES OF HOYT, KANSAS; 320 ACRES fine wheat, corn and clover land. Two sets improvements. 200 acres in wheat. 10 in alfalfa. 60 acres fall plowed. \$75.00 per acre. Terms to suit buyer. Write D. B. Sumpter, Real Estate Agent, Mayetta, Kansas. Exchanges solicited.

FOR SALE—80 ACRES IN NORTON CO., 2 mi. from town, 60 a. in cultivation. Price \$1,000. Also new house in Holden, Mo., 4 rooms, city water, in house, wired for lights, close in. Price \$1200 cash, or on time. Address Box 253, Belleville, Kansas.

FOR SALE—80 ACRES 1 1/2 MILES FROM Manhattan, Kansas, 35 under cultivation most all in alfalfa, bal. pasture; 5 room house, good barn, living water, fine orchard, nearly all kinds of fruit; ideal dairy and poultry farm. Price \$7,000. A. W. White, Manhattan, Kan., Rt. No. 5.

LAND HALF PRICE AT FORCED SALE— On account closing out holdings I offer 1,148 acres in body, adjoining town on direct railroad to Houston, San Antonio and Galveston; three great markets, at the lowest price such land is quoted in this famous section of the Gulf Coast Country. Must sell. Practically all open prairie, ready for the plow. Sandy loam, clay subsoil. Would make great dairy and hog farm, or splendid for general farming. Bermuda and Burr Clover, Sudan Grass, forage feeds as well as corn, potatoes and other crops do exceptionally well. Abundant supply of shallow water. Two crops a year. Price only \$22.50 for quick sale. Very easy terms. Adjoining lands sell for \$40. Will sell for double present price in short time, either as a whole or subdivided. Write for plat and particulars. Address W. J. French, Rock Island, Texas.

LANDS

320 ACRE HOMESTEADS, GOOD LAND, good markets, good water, free coal and timber, near railroad. W. R. Fox and Frazer, Gillette, Wyoming.

VIRGINIA FARMS; SMALL AND LARGE, \$15 an acre and up. Easy payments, mild climate, fertile soil. Ideal for fruit, stock or general farming. On railroad with big markets near-by. Write for list, maps, etc. F. La Baume, Agr'l Agt., N. & W. Ry., 318 N. & W. Bldg., Roanoke, Va.

FOR SALE OR RENT—40 ACRES, 3 MILES of Carbondale, Kan.; 30 under cultivation, balance pasture and little timber on creek; 2-room house, barn, cow lot, chicken house and corn crib; 1 mile to good school; 3 to church and store; fine neighborhood. Am a widow and must sell or rent quick. Bargain. Mrs. Rachel Layman, Carbondale, Osage Co., Kan.

FARM HOME AT AUCTION. JAN. 20TH, 1915, 320 acres 2 1/2 miles from Abbeville, 3 miles Arlington, Reno Co., Kan. County's last wheat crop 6,770,000 bushels, 240 acres good growing wheat, good grass, never-failing spring in pasture; new house, barn, chicken house, shop, windmill, fence and other improvements. Terms 1/4 cash, balance 5 1/4% interest annually; payments of 1/2 of crops. Horses, mules, cattle and entire farm equipment also sell. Write Geo. W. White, owner, or John D. Snyder, Auctioneer, Hutchinson, Kan.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from fine school, fine old shade, park like surroundings, lot 3 1/4 by 205 feet, light room house, modern in every detail, hardwood finish, four fine mantels and grates of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses, etc., etc. Fine place for farmer who wants to move to the capital city. Price \$5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E., care Mail and Breeze.

FOR SALE

RUFUS RED BELGIAN BUCKS \$1.25 each. Mrs. Church, Burlington, Colo.

250 TONS OF GOOD ALFALFA HAY FOR sale. If interested come and look at it. D. Badger, Bureka, Kan.

BALED ALFALFA, PRAIRIE AND BOT- tom hay, kafir corn and feterita. A. B. Hall, Emporia, Kan.

I HAVE TWO NEW STANDARD CREAM separators I will sell for 80% of actual price. Address S., care Mail and Breeze.

FOR SALE—3 GANG MOTOR PLOW, HAS been used very little. Good as new. Cheap for cash. Write W. H. Ryer, 1211 Askew, K. C., Mo.

POTATOES—HAVE TRADED FOR THIRTY cars Minnesota seed potatoes, will sell very cheap; pay after car inspected. E. Wickham, Salem, Nebraska.

FOR SALE—36 IN. CYLINDER SEPARA- tor, complete with feeder and extension. Weigher and gearless blower. Good as new. Cheap. Arthur Snapp, Milo, Kan.

BUY YOUR LUMBER, DOORS, WINDOWS, shingles, etc., direct from mill, saving 25 per cent. Payment after examination, your town. Powell Land & Lumber Co., Rusk, Texas.

SCALE FOR SALE, ONE DATON 30 pound computing scale. Suitable for grocery or meat market. Nearly new. Will sell cheap. Colburn Bros. Co., McPherson, Kan.

EVERYBODY LIKES HONEY, ESPECI- ally if it's the new, fresh amber colored honey from Texas. It melts in your mouth. Send for price list. Gollad Bee and Honey Co., Gollad, Texas.

FOR SALE—WELL DRILLING OUTFIT equipped with 7 horse power gasoline engine; also one 15 horse power high speed engine with planetary transmission for sale or will trade for 12 horse power low speed engine. Ed Feyh, 1140 Lawrence street, Topeka, Kan.

ALFALFA AND PRAIRIE HAY, WE HAVE a large amount of alfalfa and prairie hay that we quote as follows: No. 1 alfalfa \$11.00, standard \$10.00, No. 2 \$9.00 per ton. Prairie No. 1 \$8.00, No. 2, \$7.00 per ton our track. Write or wire us for delivered prices. The L. C. Adam Mercantile Co., Cedar Vale, Kan.

NEXT TO WHEAT, GOOD REAL ESTATE is the best thing on the market. Buy now before the price goes up. I have two bargains, a fine stone, 12 room residence, South Side Kansas City, Mo. Price \$40,000; and a 30 room family hotel near one of the best transfer points in Kansas City, Mo. Price \$35,000. Write J. A. Horigan, 823 Riato Bldg., Kansas City, Mo.

FOR SALE OR EXCHANGE

STEAM ENGINE TO TRADE FOR BULL tractor. S. B. Vaughan, Newton, Kansas.

SALE OR TRADE, MAMMOTH JACK, Denmark saddle stallion. Chas. Randall, Wetmore, Kan.

EXCHANGE—160 WELL IMPROVED. PAR- sons. Want smaller. Farmers, investigate. M. E. Lawson, Parsons, Kan.

FOR SALE OR EXCHANGE—GUERNSEY bull; age 3; Advance Register sire and dam. Chas. Bremer, Burlington, Kan.

FOR SALE—NICE SPOTTED STALLION or will trade for another his equal or spotted mare or saddle mare or stallion. Correspondence a pleasure. G. C. Flint, McPherson, Kan.

TO TRADE FOR STOCK GEN. MDSE. 160 a. imp., close to town, dandy piece of land; also 2 other quarters unimproved, will trade from 4 to \$8,000. Stock. Describe stock in first letter. J. M. Denning, Gove, Kansas.

HELP WANTED

CHRISTIAN HELPERS WANTED. MODEL colony, Farming. Jno. Marriage, Mullinville, Kan.

WANTED: MARRIED MAN WITH NO children for general farm work. Wife for housework. J. W. Taylor, Chapman, Kan.

BE A DETECTIVE. EARN \$150 TO \$300 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

15,000 GOVERNMENT JOBS OPEN TO men and women. \$65.00 to \$150.00 month. Write for list. Franklin Institute, Dep't P-51, Rochester, N. Y.

WILL PAY RELIABLE WOMAN \$250 FOR distributing 2,000 packages Perfumed Soap Powder in your town. No money required. M. Ward & Company, 218 Institute Place, Chicago.

MALE HELP WANTED

GOVERNMENT FARMERS WANTED, AGE 21 to 50. Make \$125 monthly. Write Osment, (38. F) St. Louis.

WANTED—RAILWAY MAIL CLERKS. \$75 month. Examinations soon. Sample questions free. Franklin Institute, Dep't P 51, Rochester, N. Y.

WANTED—RELIABLE MEN TO SELL nursery stock. Paid weekly; experience unnecessary; outfits free. F. H. Stannard & Co., Ottawa, Kansas.

MOTORMEN—CONDUCTORS; INTERUR- ban; earn \$80 monthly; experience unnecessary; quality now; state age; details free. F., care Mail and Breeze.

RAILWAY MAIL CLERKS, CLERK-CAR- riers and rural carriers wanted. I conducted examinations—can help you. Trial examination free. Osment 38, St. Louis.

FIREMEN AND BRAKEMEN; \$100 MONTH- ly; experience unnecessary; hundreds needed by the best railroads everywhere; particulars free. 796 Railway Bureau, East St. Louis, Ill.

SALESMEN WANTED FOR FULL LINE fruit and ornamental trees. No experience necessary. Full or part time as you prefer. Prompt pay each week. The Lawrence Nurseries, Lawrence, Kansas.

MEN 20 TO 40 YEARS OLD WANTED AT once for electric railway motormen and conductors; \$60 to \$100 monthly; no experience necessary; fine opportunity; no strike; write immediately for application blank. Address Manager, B-527 Dwight Bldg., Kansas City, Mo.

FARMERS—GET U. S. GOVERNMENT jobs. \$65 to \$150 month. Short hours. Easy work. Vacations. Common education sufficient. Pull unnecessary. Write immediately for list of positions now obtainable and information how to get appointment. Franklin Institute, Dep't P 51, Rochester, N. Y.

WANTED: MEN TO WORK ON AN IRRI- gated ranch. Work year around for good men. Pay winter months \$45.00, summer \$50. Good board costs five dollars a week. Houses furnished free for a limited number of families. Climate best in America. Applicants must be sober, clean tongued, able bodied and familiar with farm work, particularly handling horses. Harroun Land Company, Malaga, N. M.

SYRUP AND RICE

PURE RIBBON CANE SYRUP, MADE THIS season, contains all sugars and no chemicals. Cash prices: 5-gallon kegs, \$3.35; 10-gallon kegs, \$5.65; 16-gallon kegs, \$8.70; 27-gallon barrels, \$14.20; 55-gallon barrels \$27.80. Freight charges paid to Missouri, Illinois, Oklahoma, Kansas, Arkansas and Iowa. Being located where seventeen railroads enter, shipments go promptly on most direct routes, subject to examination at your depot. Syrup supply is limited, so order immediately. Sample 5c. Also new rice at low prices. Telmah's Plantation Mill, Houston, Texas.

OILS.

BEST AUTOMOBILE, ENGINE, CYLINDER oils, greases, crude dip, kerosene, etc. Save money by writing for price list. Neosho Valley Oil Co., L. J. Hurt, Mgr., Station "E," Kansas City, Mo.

HEDGE POSTS

HEDGE POSTS FOR SALE IN CAR LOTS. H. W. Porth, Winfield, Kan.

MISCELLANEOUS

SHIP YOUR HIDES TO THE COPE'S, TO- peka.

MONEY TO LOAN ON KANSAS FARMS. Ella Peacock, Topeka, Kan.

100 NOTEHEADS AND 100 ENVELOPES \$1.00; 250 each \$2.00; 500 each \$3.00 post-paid. Best value. Send for samples, Letter-head Shop, 1025 Broadway, Kansas City, Mo.

WILL PAY RELIABLE MAN OR WOMAN \$12.50 to distribute 100 free pkgs. Perfumed Borax Soap Powder among friends. No money required. M. B. Ward Company, 218 Institute Pl., Chicago.

CALIFORNIA INFORMATION:—KNOW the truth about California before you spend your money. Get the facts. I have nothing to sell except my services—disinterested and reliable information. A letter to me outlining information desired will have my personal attention. My fee is small—pay when you receive the information. Let me be your representative. Write today. D. B. Halcomb, Box 8, Pico Heights Station, Los Angeles, California.

Unprofitable Acres

BY J. C. McDOWELL.

We hear many uncomplimentary things said about the unprofitable dairy cow—the boarder cow that is supported from the profits of the remainder of the herd. On many farms the unprofitable dairy cow is not by any means the only boarder. Low-yielding acres, like boarder cows, are often fatal to successful farming. Our farm survey records show that areas of poorly drained, compact, sour soils, or soils low in humus greatly reduce net profits and are a frequent cause of minus labor income. Sometimes these records show that as much as 30 per cent of the farm acreage does not produce enough to pay its way.

One farm on which we recently took records has 40 acres of poorly drained land that in its present condition is practically worthless. Twenty-five dollars an acre spent in drainage will make this 40-acre tract the equal of any in that district, and good land is selling there at \$150 an acre.

The successful business man tries to weed out all unprofitable enterprises and to expand those that pay a profit. Unprofitable acres cannot always be disposed of as readily as boarder cows, but usually they can be improved until they become profit bearing. If the income from such land cannot be increased it is quite possible that the labor spent upon it can be reduced until the income at least pays the cost of labor.

Forest Trees For Protection

I wish you would give me a little information in regard to forest trees. I have tried locust, but they don't seem to do well on upland. What kind of trees would you advise for this section of the state, which would make a fairly rapid growth that the borers would not bother?

Protection, Kan. CHARLES C. KING.

I know of no good broadleaf tree for your section. However, there are a number of very hardy, small or medium sized trees, which will give an abundance of shade and fuel, and some posts. Among those that I would advise planting are: Russian wild olive, Russian mulberry, and Osage orange.

Of these the Russian mulberry probably will make the most rapid growth and attain the largest size. This tree thrives on almost any soil. The mulberry prefers a sandy loam, and the Osage orange a loam soil. They may be planted in hedge rows or as individual trees in the yard, or they may be spaced regularly to develop a dense growth.

The distance at which they should be planted will depend on the available moisture. In case the ground is dry and hard, they must be given more room and should be kept thoroughly cultivated. On sandy soil, where there is more moisture available, they can be planted closer together.

For windbreak or protection planting, some of the evergreens will prove more desirable and satisfactory than the broadleaf species, and the best among these are: Red cedar, Austrian pine and Chinese arbor vitae. I regret, however, to say that I do not know of a nursery that is offering red cedar this year. For the Austrian pine, you might address the D. Hill Nursery Co., Dundee, Ill. We have a fine lot of Chinese arbor vitae growing in the state forestry nursery. The evergreens should be spaced about the same as the broadleaf trees, and should receive the same general care and cultivation.

Charles A. Scott.
Manhattan, Kan.

MISCELLANEOUS.

BIG WESTERN WEEKLY SIX MONTHS 10 cents. Biggest and best general home and news weekly published in the West. Interesting and instructive departments for young and old. Special offer, six months' trial subscription—twenty-six big issues—10 cents. Address Capper's Weekly, Dept. W. A.-12, Topeka, Kan.

SEVERAL PEOPLE IN THIS VICINITY are going to buy an automobile this season. Who are they? We want to know. Write us today saying, "How can I make \$10.00 by giving you the name of a person who I think is going to buy a car." It is easy. You can make more too, in only a few minutes' time. Address Box No. 395, Streator, Ill.

A MILLION DOLLAR BOOK. IF WE CAN get ten thousand farmers to read the Equity Text Book, they will join the Equity Union and we will save them one million dollars per year as we are doing for our present membership. Send fourteen two cent stamps to The Equity Union, Greenville, Ill., for the book and read carefully our plan of co-operation which holds ten thousand farmers together in a business union. C. O. Drayton, Greenville, Ill.

BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

Special Notice

All advertising copy, discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any change in the pages after they are electrotyped.

REAL ESTATE MEN, write for special land deal. Lock Box 106, Syracuse, Kan.

ALLEN CO. FARMS at owners' prices. Write for lists. E. L. Thompson, Iola, Kan.

ALFALFA land, Sedgwick Co. Write for price list. G. E. Davis, Valley Center, Kan.

BOTTOM farms on interurban, 20 mi. Wichita. Write Harling Bros., Sedgwick, Kan.

NORTHEAST Kansas farm bargains. Write for list. Compton & Meyer, Valley Falls, Mo.

350 A. joins town; 160 a. 3 miles, well imp. Other bargains. Wm. Robbins, Thayer, Kan.

CATHOLIC Homeseekers, write for lists of lands. Andrew Burger, Burlington, Kan.

LAND in Nemaha, Marshall, Pottawatomie Cos. \$30 and up. T. E. Rooney, Seneca, Kan.

FARMS and ranches, northeast Kansas, \$25 to \$125 acre. Geo. Loch, Marysville, Kan.

CATHOLIC communities a specialty; send for list. C. F. Fouquet Inv. Co., Andale, Kan.

IMP. FARM Pottawatomie Co. \$35 per a. Write me. O. H. Martin, Severy, Kansas.

FREE! Illustrated booklet describing richest Co. in Kan. Hoxey Land Co., Columbus, Kan.

240 A. finest Kaw Valley bottom land, imp. Easy terms. J. M. Conlan, St. Marys, Kan.

A BARGAIN. 480 a. close in; good land, impr. Terms. J. F. Voran, Belpre, Kan.

KAW VALLEY and E. Kan. farms. Catholic community. T. J. Ryan, St. Marys, Kan.

SOME EXCELLENT income property in Kansas City to exchange for land. The Lakin Land & Immigration Co., Lakin, Kan.

FREE LISTS of Ness County grain, stock and alfalfa land. Fine land at \$10 to \$15 per a. Easy terms. West, Ransom, Kan.

MUST sell three well improved Kansas farms before March 1st. Get descriptions, locations, prices. Melvin Smeltz, Durham, Kan.

1800 ACRES, 100 bottom, fine grass; good improvements. \$20 per acre. Good time but no trade. J. H. Price & Son, El Dorado, Kan.

TRACTS of 160 to 480 acres; smooth, raw wheat land close to good towns in W. Kansas and E. Colorado, \$4 an acre up, cash. Choice relinquishments cheap. Cash bargains all over Kansas and the Southwest. Christensen Realty Co., Hutchinson, Kan.

FOR SALE. One of the best 240 acre farms in Reno County, Kan., 2 mi. from good town. Soil black sandy loam; level; good improvements. Close to school, R. F. D., etc. 200 a. now in crop. Write owner, M. G. H.—173, Capper Bldg., Topeka, Kan.

FOR BARGAINS in improved farms in Catholic settlements. Exchanges made. Write Frank Kratzberg, Jr., Greeley, Kansas.

HARPER COUNTY, Kansas. First class land, \$30 to \$45 per acre. Write us now. J. E. Couch Land Co., Anthony, Kansas.

IT'S \$10,000, best 240 in county, alfalfa land; 3 1/2 mi. town. Must sell; fair improvements. J. F. Donahue, Mound Valley, Kan.

GOOD, smooth wheat and alfalfa lands at \$15 to \$25 per acre. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kansas.

160 A. improved, 120 cult., 30 pasture. Windmill. Big hen house, good cellar. Mile to school. R. F. D. and phone. \$45 a. Terms. Thos. J. Stinson, Spearville, Kan.

FOR SALE. 640 acres improved ranch. 120 a. cultivation, bal. pasture. 75% tillable. Living water. Will consider income property for part purchase. Price \$25 per a. L. E. Pendleton, Dodge City, Kansas.

VALLEY FARM 160 a. 2 mi. from Osage City, 90 a. in corn, 10 a. alfalfa, 20 a. hog pasture; bal. native grass meadow. 8 r. house, large barn and cow barn. Rock cave; cistern, well, windmill. 1000 catalpa trees. A bargain for \$35 per a. Rosenquist & Renstrom, Osage City, Kan.

\$120 A. IDEAL RANCH—Adjacent to Ness Co., Kan. In compact body; 90% tillable; 1,000 a. bottom alfalfa land; rich soil; 600 a. in cultivation. Two sets imp. Can lease 3,000 a. joining. Abundance water. Price \$30,000, terms. For particulars address C. F. Edwards, Ness City, Kansas.

153 ACRES, FINE IMPROVEMENTS. 3 1/2 mi. Cherryvale; good black level land, large new house; good outbuildings. Free gas. \$10,000; half cash. Bowman Realty Co., Coffeyville, Kan.

FOR SALE. 80 acres good farming land, 3 1/2 mi. southwest of Holton, Kan., Jackson Co. The west half of the southwest quarter of section 32, twp. 7, range 15. This is good corn land. For terms and price write W. A. Margrave Co., Preston, Neb.

COFFEY COUNTY, EASTERN KANSAS. Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Kan.

FINEST RANCH IN KANSAS. 2360 acres in solid body, 400 first bottom land. 120 in alfalfa; large new buildings. Price \$30. Terms. Only 3 miles out. Guss Schimpff, Burns, Kansas.

FOR SALE. 160 acres of well improved land; 50 acres of growing wheat; 3 1/2 miles from Delta, Kansas. \$75 acre, \$2500 cash, bal. 10 years at 6%. Possession at once. Write Louis J. Masopust, Ellsworth, Kansas.

80 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

173-Acre Snap Only 4 mi. Wichita; smooth black loam soil; good 9-room house, big barn, etc.; possession; \$5,000 cash, time on bal. E. M. Mills, Schweiter Bldg., Wichita, Kan.

OPPORTUNITY KNOCKS: Not on this proposition, but at your door, for the purpose of directing your attention to this 1600 ACRES FOR \$15 AN ACRE. Every acre first class agricultural land, choice location, surrounded by well improved farms, and only 3 miles from Scott City, the town of all towns in Western Kansas. Creditors forcing sale. Write for further information. STARE & BRENNEM, Scott City, Kansas.

460 ACRES smooth land, 3 miles town; 65 cultivation; 14 clover; 10 alfalfa; 2 walnut timber; 3 orchard; 8-r. house; cellar; barn; other buildings. Price \$30. Terms. 160 acres smooth land, 2 miles High School town; 12 clover; 15 blue grass; 35 wheat; good house; barn; corn-crib; 3 wells; Price \$9,000.00. \$3,000.00 down. 170 acres, 1 mile town; 140 cultivation; extra fine buildings; well-watered; Price \$70. Terms. 320 acres, 1 mile town; 140 cultivation; 70 meadow; 110 blue grass; 25 alfalfa; 20 clover; 9-r. house; basement; barn; large silo; other buildings. Price \$20,500.00. Terms. Write, Mansfield Land Company, Ottawa, Kansas.

EASTERN KANSAS 136 a. imp. lays an improved, lays well, \$35.00. Exchanges made. T. E. Brockert, Pleasanton, Kan.

KIOWA COUNTY Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

GET RICH 330 acre Dairy Farm, 4 miles from town, Cloud County, Kansas. 135 acres growing wheat, 25 acres alfalfa, 50 head Dairy cattle, most registered; milk selling yearly contract \$2.25 per 100 lbs. 9 head of horses, mules, complete implements and tools, wagons and harnesses. New living house \$4500, cement silo, dairy barn, water system. Step right in, take it all for \$25,000, terms to suit. Address Dairy Farm, care Mail and Breeze, Topeka, Kan.

Sedgwick Co. Farm Bargains 120 a. farm, 7 room house, barn; smooth good land; fine location. \$65 per a. \$2500 handles. 240 a. farm, good house, large barn; valley land, 40 a. in alfalfa; 2 large silos; near Wichita. \$75 per a.; this will suit you. 1600 a. ranch; best of grass, well watered and fenced; improved; only 4 miles to R. R. town. 3,500 people. \$25 per a. 40 a. alfalfa land; 3 miles of Wichita. This snap \$100 per acre. H. E. Osburn, 227 E. Douglas Av., Wichita, Kan.

TO TRADE 160 a. bottom land, all tillable, imp. Youngs Realty Co., Howard, Kan.

IMPROVED 1/4 sec. close to good town in W. Kansas; 180 a. level in cult.; fine soil and water; \$6400, loan \$1000; also deeded land and choice relinquishments at Rocky Ford, Colo. Want clear income, small farm or mds. We are headquarters for high grade exchanges anywhere. Send full description first letter. Commission 2%. Christensen Realty Co., Hutchinson, Kan.

FOR TRADE: A choice 200 a. farm with good house, barn, artesian well, best of graded roads, 4 miles from Palacios, Texas, a Gulf Coast town. Will bear closest inspection. Price \$14,000. All clear of incumbrance. Will trade for farm or equal value in Eastern or Central Kansas, Nebraska or Oklahoma; but must be good stuff and priced right. We also have 657 acres raw prairie land near Houston, Texas, at \$60 per acre that we can trade for a good farm or farm lands in above states. Clear. 160 acre improved farm near Palacios to exchange for farm in Eastern Kansas, \$8,000. Clear. Three thousand dollars other property can go with this deal if desired. Perry Realty Company, Palacios, Texas.

FRUIT AND POULTRY FARM. Choice 80 acre Missouri fruit and poultry farm. Well located, well improved, a bargain. Will trade. Hunter Bros., Independence, Kan.

FOR EXCHANGE Improved half section not far from Wichita for hardware. H. C. Whalen, 413-14 Bitting Bldg., Wichita, Kansas.

For Sale and Exchange Northwest Missouri. Iowa and Nebraska choice farms; the greatest grain belt in the United States. Get my bargains. M. E. Noble & Co., St. Joseph, Mo.

Mortgages to Trade For Land Have interest-bearing mortgages to the amount of \$8000. Owner wants to exch. for E. Kan. farm. No inflated prices considered. Mts. are same as cash. Iola Land Co., Iola, Kan.

For Sale or Trade 160 acres irrigated land in the famous health giving Pecos Valley, New Mexico, in the heart of and under the Carlsbad government project, bordered by line of trees, half mile from station, land unexcelled; no buildings but otherwise finely improved. 110 acres in alfalfa. Sell all or half. Price \$19,500 long time. Might consider part trade. Address owner, S. Webster, Carlsbad, N. M.

SMOOTH FARM FOR SALE 160 acres smooth

ARKANSAS

LITTLE RIVER valley lands rich and cheap. On railroad. Robt. Sessions, Winthrop, Ark.

WRITE YOUR WANTS for Arkansas lands. W. B. Lane, Hope, Ark.

WRITE for land list and tell us just what you want to buy or trade. Horton & Company, Hope, Arkansas.

IF INTERESTED IN N. E. ARKANSAS farm and timber lands, write for list. F. M. Messer, Walnut Ridge, Ark.

25,000 ACRES fine farm, stock land, cheap. Northern colony. Cash or long time. Free map. Tom Blodgett Land Co., Little Rock, Ark.

120 ACRES in Ozarks; \$6.50 per acre. 2 room house; 20 acres cleared. 2 miles from station. David E. Katz, Little Rock, Ark.

FRUIT, grain and stock farms, all sizes, in Benton Co., Ark. Banner county of state; low prices and easy terms. Gentry Realty Co., Gentry, Benton Co., Ark.

345 ACRES; 75 acres fenced and 30 in cultivation; two sets of improvements and located in the heart of stock raising district; price \$10 per a. Write for list of bargains. Arkansas Investment Co., Stuttgart, Ark.

FOR SALE

\$17 a. farm; best improved in Baxter Co. Barn 50x150, scales, extra good 9 room house, 300 acres in cultivation. All farming tools and threshing outfit. All for \$16,000. 160 acres 1/2 mi. to Haney, 60 a. in cultivation; good spring. Price \$1,600. 33 room hotel and furniture on a fine corner in Cotter. Will trade this for a farm in Kansas. Write for full description and price. A. T. Garth, Cotter, Ark.

Low Priced Ozark Land

FAMOUS N. W. ARKANSAS FRUIT BELT. 294 acres, house, barn, spring, 50 acres in cultivation, 6 acres bearing orchard, only \$7.50 per acre, half cash. 720 acres, unimproved, only 1 1/2 miles railroad town, will sell all or 40 acre tracts at \$10 per acre. Other tracts \$5 to \$15. Terms but no trades. These are rock bottom cash prices. Write for big list of real bargains. G. F. Mosher & Co., 19 E. 10th, K. C., Mo.

MINNESOTA

SETTLERS WANTED for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minn.

SETTLERS WANTED: 40 acres, \$575; level, near school and station. \$100 cash. Ebert-Walker Co., Duluth, Minn.

CORN AND CLOVER FARMS near Twin City markets. No drouth. Ask for descriptions. \$25 to \$75 per acre. Carter Land Co., Near Union Depot, St. Paul, Minn.

FINANCING THE FARM PURCHASER

The new conditions existing have influenced us to plan a new diversion in the process of selling farm lands. Better in a thousand ways for the renter who wishes to acquire a home of his own, than it was for his forefathers when they took up homesteads under the old pioneer conditions. We offer eighty or one hundred sixty acre farm plot in Minnesota or North Dakota, in a well settled, prosperous community on our "Half Earnings" plan. A sensible and practical way of enabling the renter to buy a home without specific obligations as to deferred payments. Under this plan he has everything to win and practically nothing to lose. At present we are offering only a few choice farm plots. Full particulars will be furnished upon request. Great Northern Land & Stock Co., 310 Commerce Bldg., St. Paul, Minn.

WISCONSIN

30,000 ACRES cut-over lands; good soil; plenty rain; prices right and easy terms to settlers. Write us. Brown Brothers Lumber Co., Rhinelander, Wis.

WONDERFUL BARGAIN for QUICK DEAL! Level black loam farm, 290 acres, 1/2 mile railroad town. Elegant large up-to-date buildings, all farm machinery and 100 tons of hay. Only \$85 per acre on easy terms. Harry D. Baker, President, Polk County Bank, St. Croix Falls, Wis.

Upper Wisconsin Best dairy and general crop state in the Union; settlers wanted; lands for sale at low prices on easy terms; ask for booklet on Wisconsin Central land grant; state acres wanted. If interested in fruit lands, ask for booklet on apple orchards in Wisconsin. Address, Land Department, Soo Line Railway, Minneapolis, Minnesota.

BUY AN OZARK STOCK FARM

Many Ozark farmers are making money raising hogs, cattle and chickens. The fine open winters make it unnecessary to provide expensive quarters and the stock can range nearly the entire year. There is little disease in the Ozark region. A few good brood sows, cows and hens will soon pay for an Ozark farm. Any of the following firms can sell you such a farm. Write them for literature.

320 ACRES, 1 1/2 miles Lebanon; well improved. Price \$55 per acre. No trades. Stillwell Land Co., Lebanon, Mo.

FRUIT and timber, clover and bluegrass land, \$10 to \$25. Write for lists. South Missouri Land Co., Mountain View, Mo.

WHITE RIVER CLUB sites on lake. Farms, ranches, city property; mineral, fruit, poultry land. White River Realty, Branson, Mo.

480 A. STOCK RANCH, Estanchia Valley, N. M. Valley land, well imp., \$9,600. Near R. R. Want income. F. M. & C. G. Morgan, Springfield, Mo.

OKLAHOMA.

FOR LISTS and prices N. E. Okla. farms, write Elliott & Mabrey, Fairland, Okla.

SPECIAL Oklahoma bargain list free. Some trades. Write Harvey Cox, Hooker, Okla.

F. M. TARTON & CO., will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma.

EASTERN OKLAHOMA lands are now selling fast. If you are interested in this Productive Country and want to know more about it write The Craig-Mayes Realty Company, Big Cabin, Oklahoma.

320 A. prairie pasture; good sod; 2 miles city; this county 3000. Good water, 50 a. tillable. \$8.50 per a. Terms. Write us about 1200 acres, all prairie; 1/2 tillable. Southern Realty Co., McAlester, Okla.

OKLAHOMA LAND FOR SALE

Good land in Northeastern Oklahoma, which was part of the old Indian Territory, price from \$20 to \$35 per acre. Write for price list and literature. Agents wanted. W. C. Wood, Nowata, Okla.

COLORADO

HOMESTEAD RELINQUISHMENTS, deeded lands. Northeastern Colorado, cheap. Box 589, Sterling, Colo.

CHOICE farm lands, Elbert County, near Limon, \$8. Direct from owner. MUST SELL. T. H. Hagen, Board of Trade, Duluth, Minn.

FOR SALE, desert and homestead entries, improved, under ditch; near R.R. \$10 per a. In Logan Co., Colo. Wm. Tew, Sterling, Colo.

FOUND—Homestead near Ft. Morgan, 320 acres rich farm land, not sand. Price \$200, filling fees and all. J. A. Tracy, Ft. Morgan, Colo.

Good Quarter

For Sale Near LAMAR, COLO. Milk Condensary, nearly all in alfalfa, plenty water, big yield;—Will sell an eighty separate. SWEET & COE, Owners, Hutchinson, Kas.

FLORIDA

An Investment or a Home

Do your investments yield annually 20 to 30 per cent? The Grape-fruit and Orange groves in the Peace River District of De Soto County, Florida, return 20 to 30 per cent profit on the investment. A 10, 20, or 40 acre tract purchased now at prices suited to the poor man, will make you wealthy and independent in a few years. Soon only the rich will be able to purchase one of these farms. Visit the Peace River District and get one of our fruit farms now. Our next excursion will be January 19th. For further particulars address Peace River Groves Company, 5th Floor State Bank Bldg., Omaha, Neb.

Land Seekers Excursion

every first and 3rd Tuesday in each month to DeSoto County, Florida. Go with us and see this wonderful country and the great opportunities it offers the man of moderate means to get a home and independence. Write for our literature; it gives facts showing the advantage our lands offer the stockman, dairyman, farmer, winter gardener, fruit grower and poultryman. We do not ask you to buy this land without seeing. 103 improved farms throughout the tract proving conclusively what it will do.

NEW HOME REALTY CO.

1307 Commerce Bldg., Kansas City, Mo.

NORTH DAKOTA

BEST DEAL ON BEST SOIL in rain belt. Wadsworth, Langdon, N. D.

NEBRASKA

WE GUARANTEE you bargains in stock farms and ranches. Write Willis Caldwell, Broken Bow, Nebraska, The Bargain Man.

Big Sale of Hogs Last Week

Kansas Stockmen and Farmers Are Buying Feeding Cattle

BY C. W. METSKER

THE cattle market is developing along expected lines. Prices have sagged since the first of the month, and though still higher than usual for this month they are low compared with the market from August to the middle of December. All the states that have been quarantined are marketing fed cattle to the limit. Chicago is receiving the bulk of these cattle, and the market exists half clean and half quarantine. The great western section that has been free of the foot and mouth disease is moving about normal supplies of fed cattle, but its purchases of feeding and breeding cattle is the largest for this season of the year in more than a decade. Prices for fat cattle at the Missouri river markets have sagged with Chicago prices, but prices for thin cattle have held firm.

Table with columns: Preceding week, Year ago, Receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1912. Rows include Cattle, Calves, Hogs, Sheep, H. & M., and Cars.

Wheat On a Rampage.

Wheat prices have been moving up rapidly and it now appears that \$1.50 a bushel is no more of an improbability than \$1.25 was a month or six weeks ago. Large foreign buying, with an indisposition on the part of farmers to sell is causing the strong position in the market. The progress of fall sown wheat, which is now fairly favorable, is being watched, and should late March and April develop adverse conditions, prices will attain the highest levels ever known in this country. The acreage sown in the United States is larger than a year ago, and high prices will stimulate larger planting of spring wheat.

Corn Prices At High Point.

With cash corn prices holding close to 70 cents a bushel, it looks as though the maximum price has been reached. Less corn is being fed now than a year ago, though the price is lower than the high point in 1914. The small supply at markets is selling largely on milling accounts, and there is little corn arriving at country shipping points. Should Iowa, Illinois and Indiana fail to return to enlarged cattle feeding when fear of the foot and mouth disease is past corn will be offered in larger supply.

Big Movement In Hay.

More alfalfa hay was marketed from Kansas last week than for some time past. Choice grades sold at a 50-cent higher range, but No. 2 and lower grades were weak. Other hay showed no quotable change in price.

Kansas City Hay Quotations.

Table of Kansas City Hay Quotations listing various hay types and prices per ton.

Broomcorn Market Stronger.

Though prices are not quotably higher a better demand is reported for broomcorn. Weather conditions have been unfavorable for a large movement. Choice selfworking corn is quoted at \$90 to \$100 a ton, and common to good \$40 to \$50 a ton.

Feed and Seed Quotations.

Table of Feed and Seed Quotations listing various feed items and prices.

Butter, Eggs and Poultry.

Kansas City, Jan. 11.—Quotations on change were as follows: Eggs—Extras, new white wood cases included, 36c a dozen; firsts, 34c; seconds, 23c. Butter—Creamery, extra, 31c a pound; firsts, 29c; seconds, 27c; packing stock, 20 1/2c. Live Poultry—Springs, 2 to 3 pounds, 12 1/2c; hens, No. 1, 13c; No. 2, 10c; young roosters, 10 1/2c; old, 8 1/2c; turkeys, hens, 16c; young toms, 15c; old toms, 14c; ducks, 13 1/2c; geese, 10c. Rabbits—No. 1, \$1.25 a dozen; No. 2, 75c.

Lights That Do Not Smoke

(Continued from Page 13.)

Table listing various electrical equipment and their prices, such as Generator, field rheostat, Skids for holding generator, etc.

The wiring should not cost more than \$25.

Keep the night's milk under shelter, so that rain cannot get into the cans.

In driving a pair of horses see that the yoke is buckled firmly to the end of the pole.

Kansas an Important Buyer.

Kansas at the present rate of buying will recuperate its losses in breeding herds occasioned by the heavy selling during the drouth of 1913. Last fall was unusually favorable for sorghum, kafir and other rough feeds, stockmen, farmers and ranchmen are putting their faith and money in cattle. It is a favorable buy in the opinion of men acquainted with the situation. The Kansan is not only figuring on increasing his herds but will increase feeding operations. One man who sent 500 steers to the western part of the state says he has enough kafir to carry them well into the summer, but that in his opinion there will be such a big demand for well conditioned feeders from east of the Mississippi river by the latter part of March that a worthy profit will be realized. Neither Kansas nor the Southwest will feed much corn, but good beef will come from those sources by the use of silage, roughage, alfalfa, cottonseed meal, and beets.

Cows For Beef Sluggish.

The trade in fat cows and heifers is light, and demand appears unusually narrow for this season of the year. Strictly dry lot cows are bringing more than \$7 and heifers above \$8, but a year ago offerings in the West that were marketed direct from wheat fields were bringing as much as the dry lot brand now. Liquidation in female cattle in Chicago territory is responsible for this condition. At river markets, however, female cattle that are breeding or feeding quality are selling relatively better than fat grades. "Wet" cows, springers, milk cows, and heifer calves are in the class most needed. Veal calves are firm again, selling up to \$10.50.

Buy Now Is Advised.

Many commission men are advising their patrons who have rough feed to buy thin cattle now. They say that February to June prices will be higher, and the supply relatively smaller. In this particular they are following the general belief that by the latter part of March the great feeding section east of the Mississippi river which has bought practically no cattle for three months past will be a large buyer.

Valuable Herd Slaughtered.

Government officials last week slaughtered 21 cattle belonging to E. M. Barton, of Hinsdale, Ill. The cattle were valued at \$80,000. More than a month ago the foot and mouth disease was discovered in the herd and Dr. Bennett of the United States Bureau of Animal Industry tried to eradicate the disease by treatment and segregation. His failure to do this resulted in the slaughter and the burning of the carcasses in quick lime.

Immense Receipts Of Hogs.

More than 1/2 million hogs arrived at the five western markets last week, the largest supply reported in any week since 1908. Chicago was the center of the heavy movement, reporting more than 50 per cent of the total supply. In the first four days of the week prices held firm and demand was unusually large. This condition caused larger supplies Friday and Saturday than could be handled and prices broke to a net decline of 15 to 20 cents for the week. The 7 cent quotation was near the vanishing point and if heavy runs continue January prices will be lower. Prices are \$1.15 to \$1.25 lower than a year ago. Large supplies are ready to move and it seems probable that only enormous buying by packers will check the decline. The factors that figure for large demand are, increased Southern demand for pork and cured meats and the relatively low prices of pork compared with other meats. Fresh pork, cured meats and lard are lower now than for several years past, and the low prices are causing retailers to load up with cured meats. Sales of lard in Chicago last week were nearly double those of a year ago.

Moderate Advance In Sheep.

Trade in sheep though rather quiet was at higher prices. Declines in hogs and cattle checked the full force of the upward tendency. Lambs are near the 9 cent level and probably will pass that point before the end of the month.

The Movement Of Livestock.

The following table shows receipts of cattle, hogs and sheep at the five western markets last week, the previous week and a year ago:

Table showing the movement of livestock (Cattle, Hogs, Sheep) at five western markets (Kansas City, Chicago, Omaha, St. Louis, St. Joseph) for the current week, previous week, and a year ago.

THE FARMERS MAIL AND BREEZE

January 16, 1915.

Rain Makes Wheat Green

Ground Has Plenty Of Moisture On Top But Is Dry Below

BY OUR COUNTY CORRESPONDENTS

PLOWING for spring crops is being done in Oklahoma. The fine spring days that Kansas has been enjoying make it seem almost like plowing time here. O. L. Cox, Douglas county, says that the frost is nearly all out of the ground, and that the wheat there is as green as is usual in March. Stock are wintering well this year. Feeding and stock cattle are scarce in most sections. Little corn is being sold. Threshing still is in progress in Morton county. There is plenty of work, and help is scarce, according to E. E. Newlin of that county.

KANSAS.

Kingman County—Some cold weather but not much moisture. Very little snow. Stock cattle scarce. Wheat \$1.17; corn 75c; oats 50c.—B. F. Shelman, Jan. 8.
Pottawatomie County—Snow is all gone. It melted slowly and went in the ground. Wheat looks good. Hogs selling rapidly and prices range from \$6 to \$6.25.—S. L. Knapp, Jan. 8.
Pratt County—Having very nice winter but need a little more moisture for the wheat. Some stock have died and I think they got too much sand in the wheat. All stock doing fairly well.—J. L. Phelps, Jan. 11.
Cherokee County—Fine weather the last week. Farmers plowing. Wheat looks well since the rain of last week. Plenty of rough feed. Not many sales. Cattle bring good prices. Corn 85c.—A. E. Moreland, Jan. 8.
Wabawnee County—Snow is gone and the weather is fine. Wheat looks good. Ground has plenty of moisture on top but is very dry below. Corn is scarce and not much sold. Eggs 30c; butter 25c.—Henry Lesline, Jan. 9.
Geary County—Weather fine. Snow all going away. It gave about 2 inches of mois-

Marshall County—Ground was covered with a few inches of snow nearly all during December which kept the wheat and the fall sowing of alfalfa in fine condition. Snow melted away the first week in January and soaked in the ground. Snow again on January 6 which will give us enough moisture for this winter.—F. G. Stettinisch, Jan. 7.
Miami County—Some real winter weather the last part of December with about 6 inches of snow. Snow is all gone now and had a light rain a few days ago. The moisture all soaked into the ground and was fine for the wheat which looks nice and green. Stock wintering well. All small grains high. Some farmers plowing.—L. T. Spellman, Jan. 9.

Pottawatomie County—December was a real winter month and the snow was a foot deep. It all went off when the sun shone and didn't make much water. Wheat looks and didn't make much water. Stock of all kinds sell in good condition. Stock doing well. Wheat \$1.27; corn 70c; eggs 30c.—W. H. Washburn, Jan. 8.

Riley County—Snow all melted and the fields are wet and muddy. Wheat and rye look very good. No pasturing on fields now. Plenty of feed and stock are doing well. Several farmers put up ice during the last cold spell. Farmers putting up wood and cold spell. Farmers repairing on their farms. Not doing general repairing on their farms. Not doing wheat in the farmers' hands now. Corn 70c; wheat \$1.18; eggs 28c.—P. O. Hawkinson, Jan. 9.

Trego County—Had a good snow but not enough to soak the ground which was very dry. A great deal of the wheat is not up yet. Ice crop was good. Livestock doing well. Plenty of feed. Considerable kafir, milo, sorghum, feterita, and millet to thresh. A large acreage of kafir, milo, sorghum and feterita will be planted this year. Some corn to husk yet. Wheat \$1.10; kafir and feterita 50c to 75c; corn 75c.—W. F. Cross, Jan. 5.

Douglas County—Snow is all gone. Wheat looks fine and green. Grass is as green as in March. Frost is nearly all out of the ground. Corn all husked except a little in

crop about a failure. Cotton about all picked and yield about 1/4 bale to the acre. Some cattle on feed and bring good prices. Hogs scarce. Some cholera. Corn 60c to 65c; oats 45c; wheat \$1.02.—H. H. Roller, Jan. 9.

Publisher's News Notes

The Bovee Feed Mill.

The Bovee goods, both feed mills and furnaces, are well known to western farmers. They are standard. We have been glad to have the Bovee advertising year after year in these papers. At present Mr. Bovee is offering our readers the Bovee feed mill. It does the work claimed for it. It is an honest mill sold at an honest price. It will pay every farmer who has livestock to look into its merits. Please note the advertisement of this feed mill on page 2 of this issue. Write for copy of the illustrated circular, addressing Bovee Grinder and Furnace Works, 88 8th street, Waterloo, Iowa.

Notices.

We wish to call the attention of the readers of Farmers Mail and Breeze to the half page advertisement of that splendid weekly, The Country Gentleman, appearing in this issue. It would be a mighty good thing for you to accept the 25c offer for the 13 weeks' subscription. No farm paper has more "growing two where one grew before" and "selling at a profit" material, coupled with a progressive rural social spirit and interest in affairs of national importance, than this finely illustrated and well appearing journal. It is safe to say that it is the best censored and most carefully edited farm paper in existence. Every farmer in Kansas should have a general farm paper—better subscribe for the best. Look for the ad.

A few fall hatched chicks will come in handy to take the place of the high-priced beef and pork. It is time to set the hens now. Such late hatched chicks are not profitable to keep through the winter and should only be raised for the table.

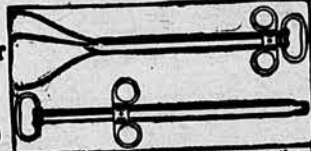
The surplus cockerels should all now be disposed of. It saves feed and the pullets will do so much the better.

Never comment on a defect. Its possessor is painfully aware of its existence and doesn't need a reminder.

Never allow sheep in a yard with cattle or colts.

Save Your Pigs

Get a Sure-Getter Pig Forcep



The Great Veterinary Instrument the Farmers of the "Hog Belt" are all talking about, The "Twentieth Century Wonder,"—Gets 'em Alive, and saves the Mother. Don't compare them with the Old Fashioned Pincher and Loop Forceps that are flooding the Country "they do the work"—Beautifully Nickled—Thus Doing Away with all Possible Danger of Blood Poison to the Animal, "Worth Their Weight in Gold" to every Farmer. Order one today, have it when you need it. General Agents Wanted.—Every County in Your State. R. C. FOLLET & CO., 3328 Dupont Ave., So., Minneapolis, Minn.

Books For Poultry Letters

IF YOU KNOW something about poultry that you think will be of interest or value to the readers of the Farmers Mail and Breeze, write to us about it. We have a copy of Robert Joos's new book, "Success With Hens," that we will give for the best letter received before January 27. The second prize is "Practical Poultry Keeping," by R. B. Sando. A book by Arthur A. Brigham, "Progressive Poultry Culture," will be given for the letter winning third place. A letter telling about your flock, what it has done and how you care for it, may bring you one of these books. The special poultry number of the Farmers Mail and Breeze will be large this year, and there will be room to print a great many letters. Anything about hens, incubators, brooders, ducks, geese, turkeys, poultry houses, or feeds and feeding may be used as the subject of your letter.

ture for the wheat. No hog cholera and stock are doing fine. Wheat \$1.20; corn 65c; oats 45c; eggs 32c; fat hogs \$6.60.—O. R. Strauss, Jan. 9.

Morton County—Had a blizzard on January 5 but it is fair now. Threshing in progress. Plenty of work. Help scarce. Stock doing well by being fed. Grass is rather poor. Maize \$1.10 cwt.; wheat 94c.—E. E. Newlin, Jan. 7.

Mitchell County—Weather fine for this time of year. Snow all gone but we need more moisture. Plenty of rough feed of all kinds. Stock doing fine. Ice harvest good and a nice supply put up. Corn 75c; wheat \$1.20; oats 50c.—S. C. DePoy, Jan. 9.

Rawlins County—About 3 inches of snow on January 5 and weather is cold. Ground has been covered with snow most of the time since the first part of December. Not much more wheat to sell. Cattle doing well. Wheat \$1.20; corn 65c.—J. S. Skolout, Jan. 8.

Russell County—Fine weather for this time of year. Wheat looks good but there is not much moisture in the ground. Stock doing well and selling high. Wheat \$1.20; wheat in the farmers' hands. Wheat \$1.20; corn 75c; eggs 27c.—Mrs. Fred Claussen, Jan. 9.

Labette County—Fine weather this week. Wheat is not looking as well as last year. Crows bother a great deal in this county. They destroy a great amount of grain. They eat every ear of corn on the outside of every corn shock. Wheat \$1.10; oats 40c; corn 65c.—Wilbert Hart, Jan. 9.

Dickinson County—Nice rain this morning. Plenty of moisture. Wheat is small but looks nice and green since the snow melted. Public sales numerous. Everything selling well, except horses. Wheat high but not much more to sell around here. Corn 70c; oats 50c.—F. M. Lorson, Jan. 10.

Gove County—Weather fine for this time of year. We need more moisture as we have had very little snow. Stock doing well. Plenty of feed in the country. Wheat prospects fair. Market poor for kafir, milo and cane seed. Some farmers selling corn at 65c. Eggs 28c.—H. W. Schaible, Jan. 9.

Brown County—Heaviest snow for many years. Wheat in good condition. Plenty of feed in the country. Not much fall plowing has been done. Horses and mules cheap. Cattle very high. Wheat \$1.10; corn 67c; oats 45c; hay \$15 ton; potatoes 75c; cream 29c; eggs 30c; hogs \$7.—A. C. Dannenberg, Jan. 4.

Jefferson County—Snow is about all gone. Have had fine winter weather until today and we are having a nice rain today. Farmers busy gathering wood and choring. Stock getting much good from stalk fields. Feed seems to be plentiful yet. Hogs for butchering are scarce on account of cholera.—Z. G. Jones, Jan. 5.

the shock. Some baling being done in the straw. Stock doing well with no disease except a little cholera. Not many sales at this time of the year. Cows sell well at big prices. Not much demand for horses and mules. Wheat \$1.20; corn 65c; oats 45c; hogs \$8.50; hens 11c; sweet potatoes 75c; Irish potatoes 70c; apples \$1.25.—O. L. Cox, Jan. 9.

OKLAHOMA.

Grant County—Weather still dry and cool. Wheat not showing any growth at all. Stock doing well. Some cattle dying on stalks. Still a good deal of wheat in the hands of the farmers.—A. C. Craighead, Jan. 9.

Pushmataha County—It has been raining quite a little lately and range cattle are losing flesh on the decaying grass. Milk cows are fed on cotton seed. The hens are not laying and butter sells for 25c.—K. D. Olin, Jan. 8.

Woods County—Weather fine for winter but is dry for the wheat. Cattle in good flesh. Plenty of rough feed. All stock doing well and selling well at sales. Milk cows \$50 to \$100; hogs 8 1/2c; horses \$70 to \$150; eggs 25c; wheat \$1.15; corn 80c; kafir 68c to 70c.—W. C. Douglas, Jan. 7.

Caddo County—Damp cold weather preceded by dry has caused the wheat to plow slow progress. Farmers beginning to plow for spring crops. Most of the stock are in good condition. About 60 per cent as many cattle on feed as last year. Wheat \$1.20; corn 70c; oats 45c.—S. A. Gilmore, Jan. 9.

Kay County—Fine weather. Farmers busy threshing kafir and plowing for oats. Wheat is looking good but needs more moisture. Larger acreage of wheat and oats than usual. Kafir 60c; oats 40c; wheat \$1.25; corn 60c; eggs 28c; hens 11c; ducks 8c; geese 7c; butter 25c.—Sherman Jacobs, Jan. 8.

Wagoner County—Ground is in fine condition for winter plowing and many farmers are taking advantage of it. Very little cotton will be planted. Farmers are going to sow many acres to oats. Hog cholera almost eradicated. Winter oats doing well. Plenty of roughness for feed. Wheat \$1; cotton 7c; corn 60c.—A. P. Gregory, Jan. 6.

Noble County—Wheat looking fine and there is plenty of moisture in the ground. Some farmers are plowing the ground for oats. Acreage of spring crops here will be small as most of the ground was put in wheat last fall. Not much corn or oats in the county but plenty of rough feed. War horses selling high.—A. E. Anderson, Jan. 11.

Garvin County—Good rains and 2 inches of snow the last week in December. Wheat in good condition and twice as much sowed as last year. Plenty of roughness. Corn

LIVESTOCK AUCTIONEERS. FLOYD CONDRAY, Stockdale, Kansas. Livestock auctioneer. Write for open dates.
BOYD NEWCOM, Wichita, Kansas. AUCTIONEER. Real Estate a Specialty. Write, wire or phone for dates.
N. W. COX, Wellington, Kas. AUCTIONEER. LIVESTOCK AND FARM SALES.

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.
Jas. T. McCulloch, Clay Center, Kan. Reference: The breeders I am selling for every year. Write for open dates.

WILL MYERS, Livestock Auctioneer. BELLOIT, KANSAS. Ask the breeders in North Central Kansas. FOR DATES ADDRESS AS ABOVE.

RUGGELS & SON, SALINA, KAN. BEVERLY, KAN. Livestock, Real Estate. Address either place.

D. F. Perkins, Concordia, Kan. Livestock Auctioneer. Write, wire or phone for dates.

FRANK J. ZAUN, FINE STOCK AUCTIONEER, INDEPENDENCE, MO. "Get Zaun. He Knows How." Bell Phone 675 Ind.

JESSE HOWELL, HERKIMER, KAN. of Howell Bros., breeders of Durocs and Herefords can make you money on your next sale. Write for dates.

W. A. Fisher, White City, Kan. Livestock Auctioneer. Write or Phone for dates.

DUROC-JERSEYS. RICE COUNTY HERD DUROCS. Spring and summer boars, 30 fine gilts and sows bred for March and April farrow. Good Knut, Colonel, Crutson Wonder, Ohio Chief blood lines. Prices right, herd immune. Write today for prices and description. G. M. SHEPHERD, LYONS, KANSAS.

WOODDELL'S DUROCS. Herd headed by Rex E. Nuff. Good E Nuff Again King and brother to Otey's Dream. Spring boars and gilts priced reasonable. Satisfaction guaranteed. G. B. WOODDELL, WINFIELD, KANSAS.

CAMPBELL'S DUROCS. A few yearling sows, also spring pigs—the handsome, stretchy kind. Ohio Chief, Col. and Model Top blood lines. Can ship via Rock Island or Santa Fe. Satisfaction guaranteed. A. T. CAMPBELL, MARION, KANSAS.

Illinois Duroc-Jersey Pigs. By Chief Selection 124885, Pal. 44543, Prof. King 35481. Out of sows just as well bred. Have a great lot of strong husky March males priced right. W. L. STONER, HENRY, ILLINOIS.

Marsh Creek Herd DUROCS. Sows and gilts bred for March and April farrow. Big and stretchy with good bone, good color and broad, deep bodies immune. Will be priced reasonable and descriptions guaranteed. Write for Fr. Ralph P. Wells, Formoso, Kansas. Sale catalogue.

BONNIE VIEW STOCK FARM. For Sale: Tried sows and bred gilts by Tat-A-Walla and Jayhawk Crimson Wonder. Sows bred to Tat-A-Walla and, gilts bred to A Critic. SEARLE & COTTE, BERRYTON, KANSAS.

Durocs of Size and Quality. Immuned boars and bred gilts, all from large prolific stock. Band C's Col. Superba, Defender. Perfect Col. Good E Nuff Again King, and Ohio Chief blood lines. Description John A. Reed, Lyons, Kansas guaranteed.

Immuned Boars and Sows. Fifty immuned Duroc-Jersey boars ready for service, \$25 to \$35 and up. 100 immuned sows bred to Buddy K 4th, Wide Awake, Crema and others, \$30 to \$50 and up. Ready for immediate shipment. Geo. W. Schwab, Clay Center, Neb.

Bred Gilts. 30 high class, pure bred Duroc-Jersey Gilts weighing about 200 pounds, bred to registered boar for February and March farrow. They have the size, color and bone but are not recorded. Price \$27.50 each. WELLS BROTHERS, CARE OF SUTTON FARM, LAWRENCE, KANSAS.

LIVESTOCK AUCTIONEERS. ANIMAL PHOTOGRAPHY and sketching; all kinds of farm animals. Write for prices. Harry Spurling, Taylorville, Ill.

John D. Snyder AUCTIONEER, successfully sells pure bred live stock, real estate and general sales. HUTCHINSON, KAN.

Be an Auctioneer. Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages. Next 4 weeks term opens Jan. 4, 1915. Are you coming?

MISSOURI AUCTION SCHOOL. Largest in the World. W. B. Carpenter, Pres. 818 Walnut St., Kansas City, Mo.

O. I. C. Auction Immune Bred Sows Friend, Neb., Wednesday, Feb. 3. 35 Head of Tried Sows Just in Their Prime, 35 Most of them fall yearlings that have raised litters. None over three years old. 5 Selected Spring Gilts. Nearly all sired by Fairmont Chief, one of the greatest breeding boars of the breed. Bred to the boars Fred and Murray's 4 B. Fairmont Chief is an 800 pound boar in fair flesh and close to 1,000 pounds fitted. His dam was the great World's Fair winner, Alvey Pet. Our herd has won its share of premiums in best shows. We are offering as a special attraction a young herd of three fall gilts and a fall boar. Will be sold together and will start someone in the business. Sale at farm under cover. Write for catalog mentioning Farmers Mail and Breeze. CHAS. H. MURRAY, FRIEND, NEB. AUCTIONEER.—Ray Page. FIELDMAN—Jesse Johnson.

DUROC-JERSEYS.

Immune Duroc-Jerseys

3 head of spring boars, 2 show boars, 20 spring gilts bred to Watson's Defender, a son of Defender. Satisfaction guaranteed. E. C. WATSON, Altona, Kan.

Hirschler's Durocs

Herd headed by Graduate King, by Graduate Col. Gilts by Tatarax Chief and E. L.'s Col. bred to him; also a fine lot of spring boars, priced for quick sale. Write today. E. L. HIRSCHLER, HALSTEAD, KAN.

Uneda Herd Unexcelled Durocs March boars of excellent breeding, color and quality. Weight, 175 to 200 pounds and notes. \$25.00 and \$30.00. Choice Sept. boars \$10 to \$15. The Duroc Bulletin one year with each Tyson Bros., McAllister, Kan.

IMMUNE DUROC SOWS For Sale Duroc sows guaranteed in narrow and choicest immune. Shipped to you before you pay. F. C. CROCKER, FILEY, NEBR.

DUROC BRED GILTS PRIVATE SALE Will not hold public sale and offer privately 18 choice yearling gilts, and 15 tops of spring crop. All sired by Royal Wonder and bred to Big Gracie a richly bred 800 pound boar when mature. Every representation guaranteed. D. S. COCHRAN, LINCOLN, NEBRASKA

Good E. Nuff Again King, Grand Champion Crimson Wonder 4th, second, Kansas State Fair 1912. City's Cream, junior champion Kansas State Fair 1914. Herd boars and grand champion prospects for sale. H. W. OTEY & SONS, WINFIELD, KAN.

HUSTON'S DUROCS Boars for sale by Country Gentleman, Golden Model 4th and Model 140199; sows and gilts safe in pig to such sires as Long Wonder 2nd, County Gentleman and Model. All immune and at pocket-book saving prices. W. B. HUSTON, Americus, Kansas.

Select Chief, The Grand Champion Of Kansas, Oklahoma City, Muskogee, Okla., Dallas, Texas, Shreveport, La., and Hot Springs, Ark. For Sale: Boars sired by him and gilts either by him or bred to him. Thompson Bros., Garrison, Kansas.

DUROC-JERSEY BOAR BARGAINS 30 March and April boars to ship on approval. Low prices as I must sell them. Sired by Dreamland Col. Big bred sow sale at Kanopolis, Feb. 23. Write for boar bargains and sale catalog. Address: J. R. JACKSON, KANOPOLIS, KANSAS

Howe's Bred Sows and Gilts Immune spring gilts, fall yearlings and tried sows; extra good breeding. Bred for spring litters to Crimson Hero by Crimson Wonder 4th whose first six sires were grand champions. Prices reasonable. J. U. HOWE, Route 8, WICHITA, KANSAS

Elm Creek Herd Durocs A few extra good Duroc Jersey gilts, bred for March farrow. Also one good yearling boar. J. O. HUNT, Marysville, Kansas.

Private Boar Sale Top boars from our 115 March and April Duroc-Jersey pigs. Nothing but choice ones priced. Extra size, best of breeding. Prices reasonable and satisfaction guaranteed. HOWELL BROS. Herkimer, Marshall Co. Kansas.

Big Bred Sow SALE February 27 All boars fit to ship sold. Will sell a few bred gilts at private sale. Write for prices and my big bred sow sale catalog. Everything immune. E. N. FARNHAM, HOPE, KANSAS (Hillcrest Farm Durocs)

Maplewood Farm Durocs We offer 40 bred sows at attractive prices. Big, well grown spring gilts. Best of breeding. Address, MOTT & SEABORN, HERINGTON, KANSAS

TATARRAX HERD DUROCS Offers for sale at right prices 75 BRED GILTS of distinct quality and exceptional breeding. 10 Outstanding Boars Everything immunized and in perfect health. Come and see us or write your wants. BUSKIRK & NEWTON NEWTON, KANSAS

WHAT BREEDERS ARE DOING

FRANK HOWARD, Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and West Okla., 614 So. Water St., Wichita, Kan. John W. Johnson, N. Kansas and S. Nebraska, 820 Lincoln St., Topeka, Kan. Ed R. Dorsey, North Missouri, Iowa and Illinois, Cameron, Mo. Jesse B. Johnson, Nebraska, 1927 South 16th St., Lincoln, Neb. C. H. Hay, S. E. Kan., So. Mo. and E. Okla., 4204 Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Feb. 1—Beall & Jackson, Rocas, Neb. Feb. 4—Albert Smith & Sons, Superior, Neb. Feb. 6—G. A. Wiebe, Beatrice, Neb. Feb. 6—B. E. Ridgley, Pickering, Neb., and C. E. Jones, Cortland, Neb., sale at Pickering. Feb. 9—Jas. W. Anderson, Leonardville, Kan. Feb. 9—Phil Dawson, at St. Joe, Mo. Feb. 10—Ed Frazier, Drexel, Mo. Feb. 10—Agricultural College, Manhattan, Kan. Feb. 10—Ira C. Kyle & Son, Mankato, Kan. Feb. 11—John Kimmerer, Mankato, Kan. Feb. 11—Howard R. Ames, Maple Hill, Kan. Feb. 12—W. E. Willey, Steele City, Neb. Feb. 12—J. F. Foley, Oronoque, Kan. Feb. 15—Thos. F. Walker & Son, Alexandria, Neb.; at Fairbury, Neb. Feb. 15—Joakim Morgan, Hardy, Neb. Feb. 16—L. E. Klein, Zeandale, Kan., at Manhattan, Kan. Feb. 17—J. H. Hartor, Westmoreland, Kan. Feb. 18—J. L. Griffiths, Riley, Kan. Feb. 19—W. A. Baker, Butler, Mo. Feb. 19—A. J. Swingle, Leonardville, Kan. Feb. 20—Jas. Arkell, Junction City, Kan. Feb. 20—John Belcher, Raymore, Mo. Feb. 23—J. D. Mahan, Whiting, Kan. Feb. 25—T. M. Wilson, Lebanon, Kan. Feb. 25—Lambert Bros., Smith Center, Kan. Feb. 25—W. E. Epley, Diller, Neb. Mar. 1—Gröniger & Sons, Bendena, Kan. Mar. 2—H. B. Walter, Hingham, Kan. Mar. 3—H. C. Graner, Lancaster, Kan. March 3—Gilbert Johnson, Osceola, Neb.

Spotted Poland Chinas.

Feb. 24—Alfred Carlson, Cleburne, Kan. Duroc-Jersey Hogs. Jan. 25—Geo. Briggs & Son, Clay Center, Neb. Jan. 25—Ira Dodson & Son, Aledo, Ill. Jan. 25—Dana D. Shuck, Burr Oak, Kan. Feb. 4—Dr. C. E. Still, Kirksville, Mo. Feb. 5—E. E. Browning, Hershman, Ill. Feb. 6—Phillip Albrecht & Sons, Smith Center, Kan. Feb. 9—Agricultural Col., Manhattan, Kan. Feb. 10—Adolph Gustafson & Son, Leonardville, Kan. Feb. 12—Howell Bros., Herkimer, Kan. Feb. 15—J. M. Layton, Irving, Kan. Feb. 17—E. A. Horton, St. Joe, Mo. Feb. 18—Buskirk & Newton, Newton, Kan. Feb. 23—J. R. Jackson, Kanopolis, Kan. Feb. 25—Martin Kelly, Verdon, Neb. Feb. 27—E. N. Farnham, Hope, Kan. March 5—Samuelson Bros., Blaine, Kan. Mar. 11—W. W. Otey & Sons, Winfield, Kan. Mar. 12—G. C. Norman, Winfield, Kan. March 17—Mott & Seaborn, Herington, Kan.

O. I. C. Hogs.

Feb. 3—Chas. H. Murry, Friend, Neb. Shorthorn Cattle. Feb. 3—A. B. Garrison, Summerfield, Kan. Feb. 23—J. D. Nutter, Morrowville, Kan., sale pavilion, Washington, Kan. Mar. 16—J. R. Whistler, Watonga, Okla. March 11-12—Nebraska Shorthorn breeders' sale, Grand Island, Neb. J. C. Price, Lincoln, Neb., Mgr.

Angus Cattle.

Feb. 16—F. W. Schaede, Yates Center, Kan. Hereford Cattle. Jan. 20—Mousel Bros., Cambridge, Neb. Jan. 23—Carl Miller, Belvue, Kan., at Wamego, Kan. Feb. 18-19—Nebraska Hereford Breeders' sale, Grand Island; Robt. Mousel, Cambridge, Neb., Mgr.

Percherons.

Jan. 20—C. W. Lamer, Salina, Kan. Jan. 22—Spohr & Spohr, Latham, Kan. Sale at Wichita, Kan. Feb. 22—F. A. Cole, Barnard, Kan.; sale at fair grounds, Beloit, Kan. Percherons and Other Draft Horses. Jan. 25, 27, 28, 29, 1915—Bloomington, Ill. C. W. Hurt, Mgr., Arrowsmith, Ill. Jacks and Jennets. Mar. 6—G. C. Roan, LaPlata, Mo.

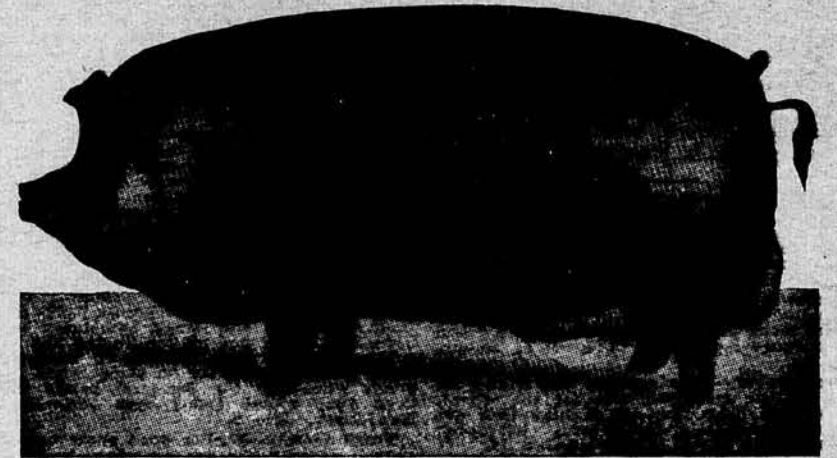
Combination Livestock Sales.

Feb. 8 to 13—T. S. Kirk, Mgr., Enid, Okla. Feb. 25—Miami Co., Breeders. Draft horses, beef cattle and hogs. O. C. Hagans, Mgr., Paola, Kan.

S. W. Kansas and W. Oklahoma BY A. B. HUNTER.

The Oklahoma Breeders' Sale gives promise of being one of the very best combination sales ever held in the Central West. It will open on Tuesday, February 9, when some 80 head of hogs will be sold, including tried sows by such sires as A Wonder's Equal, Major Hadley, Knox All Hadley, etc. May gilts that will weigh 300 pounds by Major Hadley out of dams by A Wonder's Equal and all bred to one of the very best boars in Oklahoma. Mr. Kirk is selling 30 Poland and 20 Durocs and will pay breeders' expenses if they are not satisfied with the offering. Olivier & Son of Danville, Kan., will sell some extra good boars in this sale and a few bred sows. The cattle sale on Wednesday, February 10, will include a small lot of richly bred Jerseys, about 15

Pawnee Crimson Sale Duroc-Jersey Bred Sows Burr Oak, Kan., Thursday, Jan. 28



This is Dana D. Shuck's annual bred sow sale and the offering numbers 40 head. There will be five very choice tried sows bred to Pawnee Crimson. The 35 gilts are about half by Pawnee Crimson and the rest are by a great son of this great sire. There are also a few of the gilts by Mc. Chimax, by 2nd Chimax, who's grandsire was grand champion three years in succession. The dams of the 35 great March gilts that go in this sale are among the best herd sows in northern Kansas. Pawnee Crimson, their sire is a big massive fellow that can be put to 1000 pounds when well conditioned. He was sired by Crimson Wonder 3rd, and his dam was by B. & C's Col. He has splendid length, back, feet and is simply good all over and a splendid sire as will be seen sale day. All of the gilts are bred to a good son of B. & S. Crimson Wonder and a son of King the Col. Everything is immune.

Hereford Cattle in This Sale

A good registered three-year-old Hereford bull and 11 cows and heifers, purebred but not registered and bred to this bull will be sold. Write today for my catalog. Address

DANA D. SHUCK, Burr Oak, Kan.

Auctioneers—John Brennan, N. B. Price, Essie Cravens, G. G. Denney. Fieldman—J. W. Johnson.

Durocs Priced to Sell 60 Head



20 Bred Sows and Gilts 20 Choice Spring Boars 10 Handsome June Gilts 10 Fancy June Boars They are most all by or out of sows by Tattler, by the champion Tatarax, Smith Graduate, a grandson of the famous Graduate Col., and Gold Medal, a grandson of Crimson Wonder 4th. The sows and gilts are safe in pig to C. J.'s Col., by Col. Harris. They are the kind that farrow and raise large litters. The spring boars include both the rugged, stock-farmer kind and the kind suited to the breeder. The June boars and gilts have unusual quality. These hogs are fashionably bred, good boned, good colored, handsome headed and the type that will please you.

No Public Sale I prefer to give my customers the benefit of what a sale would cost. These 60 hogs must sell the next 60 days. Special Reduction on Six or More. Come to the farm on interurban E. R., near Newton, Kan., and let me help you select. If you cannot come write me exactly what you want. Yours for quick business.

J. R. SMITH, Newton, Kansas

BALDWIN DUROCS REDS \$2

Baby boars \$7. Spring gilts \$25. Bred to "Bell the Boy" the undefeated first prize winner at the "Kansas State Fair" the "Tenn. State Fair" and the "Interstate Fair". Immune. Rose Creek Rhode Island Reds. Winners at the big shows. 19 incubators, Cockerels \$2. Call and see us. R. W. Baldwin, CONWAY, McPherson Co., Kan.

THE GET OF CHAMPION BOARS

Duroc-Jersey spring boars and gilts sired by 800 and 1,000 lb. champion boars and out of one of the best herds of sows in Mo. Big boned, strong boars ready for service, \$20 to \$25; gilts bred to farrow in March, \$25 to \$35. Register papers furnished without extra charge. Send your check and get your money's worth. E. W. TAYLOR, Olean, Mo.

Royal Scion Farm Durocs

The Great Graduate Col., Col. Scion and Gano's Pride head this herd. Extra choice Fall and Spring boars. Their dams are our best matured tried sows. G. C. NORMAN, Route 10, WINFIELD, KAN.

BIG TYPE UNPAMPERED BERKSHIRES

150 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetype, King's Truetype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Eighty bred sows and gilts to farrow soon. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, BURLINGTON, KANSAS.

10 April and May Duroc Boars sired by Iowa Van's Crimson Wonder. Also a nice lot of gilts sired by these great herd boars and bred to a son of Royal Chimax. GARRETT BROS., STEELE CITY, NEB.

IMMUNED DUROC-JERSEYS Best of blood lines. Big type. Plenty of fall sows. Priced right. Guaranteed. MOSER & FITZWATER, SOFF, KANSAS.

DUROC-JERSEYS.
BANCROFT'S IMMUNE DUROCS
 We hold no public sales; nothing but the best offered as breeding stock. Choice spring boars, also gilts, open or bred to order for spring farrow. Customers in 13 states, satisfied. Describe what you want. We have it.
D. O. BANCROFT, OSBOENE, KANSAS

MULE FOOT HOGS.
Mule Foot Hogs All kinds for sale. Gilts sired by and bred to my first premium winning boars at Ohio and Indiana State fairs of 1913 and 1914. Some fine fall pigs in pairs **Zane G. Hadley, Box C, Wilmington, Ohio** not related.

POLAND CHINAS.
Sam Herren, Penokee, Kas.
 Booking spring pigs sired by my great young boar by old A Wonder and out of the great sow Lady Major.

Poland China Bred Sows, Norton, Kan., Feb. 13.
 40 sows and gilts. A few choice spring boars at private sale. **J. F. Foley, Oronoque, Kan. (Norton Co.)**

KLEIN'S BIG POLANDS
 Boars and Gilts, spring farrow at attractive prices. Can furnish them not related. I guarantee satisfaction. **L. E. KLEIN, Zeandale, Kan.**

King of Kansas Bred Sow Sale
 20 fall and 20 spring gilts sired by the above great boar. Five choice proven brood sows bred to King of Kansas. A big percent of the gilts bred to Long Jumbo Jr. Write to day for catalog. **J. L. GRIFFITHS, RILEY, KANSAS**

Big Spotted Poland Chinas
 50 Big Spotted Poland China sows and gilts in my Feb. 24 bred sow sale. I want you to come. Write today for Catalog. The Farmers Kind.
Alfred Carlson, Cleburne, Kan.

SHEEHY'S BIG POLAND CHINAS
 Fall yearling gilts, spring gilts and tried sows, bred for early farrow. Fall weaning pigs. Everything immune. **Ed Sheehy, Hume, Mo.**

Poland China Boars
 March and April farrow. Also a few choice fall yearlings. These are actual tops and for sale at reasonable prices. Strictly Big Type. Gilts reserved for bred sow sale.
JAS. ARKELL, Route 4, Junction City, Kansas

Strauss' Big Poland Chinas
 Six last fall boars and 18 spring boars by Model Wonder (900 pounds) and Blue Valley Chief by Blue Valley. Write me your wants.
O. R. STRAUSS, MILFORD, KANSAS

ENOS' Big Type POLANDS
 30 head of fall and spring boars, 40 head of sows and spring gilts by Orphan Chief and Major Hadley. Out of Knox-All-Hadley and A Wonder's Equal dams. All strictly big type. Private sale only. Write for prices.
A. E. ENOS, RAMONA, KANSAS.

Gephart—Long King
 A few choice spring boars at attractive prices. I will sell 50 bred sows and gilts at the Agricultural College, Feb. 17. I start the big Riley County circuit. Write to day for my catalog.
J. H. HABTER, Westmoreland, Kansas.

Fairview Herd Poland Chinas
 Choice Fall Yearling and Spring Gilts, bred for March and April farrow, offered at prices to sell quickly. Write us for guaranteed descriptions.
P. L. WARE & SON, PAOLA, KANSAS

MT. TABOR HERD POLANDS
 I am offering the tops of my 150 spring pigs by four different boars at attractive prices. Write for prices on one or as many as you want.
J. D. WILLFOUNG, ZEANDALE, KANSAS.

Axlines' Big Type POLAND CHINAS
 Herd Headed by Jumbo Hadley 69998 one of the big boned, smooth, easy feeding kind. Both boars and gilts for sale. Prices reasonable. Write to
J. E. AXLINE, WELLSVILLE, KANSAS, or E. E. AXLINE, INDEPENDENCE, MISSOURI

Erhart's Big Type Poland
 25 head of our top sows and gilts for sale, bred to four of the greatest big type Poland China boars in use today including Robidoux, a 1200 lb hog; also fall pigs from Orphan Big Gun, Big Hadley, Mr. and Big Giant, at \$20 each; three for \$45.00; a few Robidoux fall males at \$25 each for quick shipment.
A. J. Erhart & Sons, Ness City, Kan.

Geo. Bingham
 Bradford, Kan. (A Pioneer Iowa Herd)
 50 strictly big type Poland China sows and gilts at private sale. Inspection desired. Prices and descriptions by return mail. Address **GEO. BINGHAM, BRADFORD, KAN.** (Wabaunsee County).

DAIRY CATTLE.
SOMMER--BLADS GUERNSEYS!
 TUBERCULIN TESTED.
 Some matured cows and young bulls by Chief Glenwood Boy of Haddon, Penwyn 2d and Flash of Fenmore (A. R. 55). Address
ERNEST KENYON, Nortonville, Kansas

head of choice Aberdeen Angus and a nice lot of Shorthorns, including a pure Scotch hard bull out of an imported cow and a fine lot of cows bred to him.

Howe's Duroc-Jersey Bargains.
J. U. Howe, Wichita, Kan., is pricing for quick sale a choice lot of Duroc spring gilts, also a few fall yearlings and tried sows, all immuned by double treatment. These spring gilts are by J. U.'s Model, by Model Duroc, half brother to both a boar and sow Kansas State Fair grand champions. These sows and gilts are safe in pig to Crimmon Hero, by Crimmon Wonder 4th, whose first six sires one after the other were grand champions. Here is a splendid opportunity to buy some well bred and excellent individuals at very reasonable prices. Mr. Howe is a good judge of Durocs and can be relied upon to fill your orders. Write him today, mentioning Farmers Mail and Breeze.

Stallion, Jack and Jennet Sale.
J. W. Spoon & Son, Cherokee, Okla., will sell at auction Tuesday, January 26, at the farm 5 miles south of Cherokee, Okla., and 2 miles east of Yewed, Okla., an attractive lot of Percheron stallions and serviceable jacks of mature age together with five head of jennets either with colt at side or bred to the mammoth Jack Big Joe, that also sells. These Percheron stallions range also to the ton mark and include both imported and American bred animals. Three are registered in the Percheron Society of America; one a French draft. All are good sires as their colts will show and sure foal getters. The jacks are also good and range from 15 to 15½ hands, most all around the 1000 pound mark and the kind you want, if you want the good kind. Read display ad in this issue and arrange to attend the sale.

All Champion Percheron Sale.
 We cannot call to mind any sale of Percherons in the Central West that offered so much and so many different kinds of champion blood as is offered in the Percheron sale at Enid, February 11. Carnot is regarded by many as the greatest of all Percheron stallions. He was grand champion at the Wisconsin, Illinois and Indiana State Fairs, also at National Horse Show, N. Y. and the International. His get have won more premiums at shows of the first class than the get of any Percheron now living. Mr. Kirk was anxious to get some of this famous blood in the Southwest so he bought especially for this sale three fillies by Carnot and seven fillies bred to him. Mr. Kirk says the 10 fillies have more size, action, quality and finish than any lot of Illinois and Iowa State Fair prize winners and a 2-year-old filly that weighs more than a ton. What will her foal by Carnot be worth? This is only a small per cent of the champion blood that will be sold. **J. H. Jackson** will sell an imported stallion, that was first at three state fairs this year, also a grand champion now weighing 2200 pounds and bred to Albany 2d, a great show horse that was eight times grand champion. **W. S. Boles & Son** of Enid have cancelled their sale for February 18 and all their stallions and mares by the champion Hautain, sell in this sale. The consignment of mares that Boles & Son have in this sale includes first prize winners at American Royal, Kansas, Oklahoma and Arkansas State Fairs. All of them are safe in foal to Hautain, grand champion at the Kansas, Oklahoma and Arkansas State Fairs. The international grand champion, Helix, was the only horse that beat him as a 3-year-old at the American Royal. It takes the catalog to tell the whole story. The hogs and cattle will be in one catalog; horses in another. In writing mention the one you want.

N. Kansas and S. Nebraska
 BY JOHN W. JOHNSON.

This is the last call for Carl Miller's big Hereford cattle sale at the sale pavilion, Wamego, Kan. Fifty breeding females will be sold and 15 bulls 18 to 24 months old. It is a draft sale from the well known Carl Miller herd at Belvue, Kan., which numbers over 600 head. You can look for something good in this sale and you better get the catalog and plan to attend. Mention the Farmers Mail and Breeze when you write for a catalog.

This is the last call for C. W. Lamer's big Percheron horse sale at his Pioneer Stock farm 17 miles south of Salina, near Lindsay, Kan. Go to Salina and a special train will be run to the station near the farm the morning of the sale and will come back after the sale is over. Look up his advertisement in this issue of the Farmers Mail and Breeze and write him for his big illustrated catalog. Forty-five registered stallions and mares will be sold. Also 20 mules, 50 work mares, most of them in foal. Ask for his catalog today and go to the sale.

This is the last call for Mousel Brothers' big annual sale of Hereford cattle at Cambridge, Neb. In this sale they are selling the most select lot of Herefords they have ever offered at public auction. "Fifty bulls and 30 females of good ages, bone and quality," is the way this well known firm of Hereford breeders speak of their offering on the above date. The offering will contain herd bulls and show bulls of the highest order; range bulls that are strictly high class; and of good strong serviceable ages. Their big illustrated catalog, which is free, will be mailed upon application to Mousel Brothers, Cambridge, Neb. Mention the Farmers Mail and Breeze when you write them.

Farnham's Immune Durocs.
E. N. Farnham, Hope, Kan., writes that he is all sold out of Duroc-Jersey boars that are good enough for breeders. He is offering a few good bred gilts. The date of his big bred sow sale is February 27 and in this sale he will sell as choice a lot of well bred young sows as will go through any sale during this winter. Mr. Farnham had the misfortune and lost a lot of his spring pigs. In order to make this sale he bought 20 top gilts of Thompson Brothers, sired by Select Chief, the grand champion boar in Kansas, Oklahoma, Texas, Arkansas and at one or two other big shows. These 20 gilts are not only good so far as the breeding goes but they are exceptionally good individually. He also bought five gilts in the John Hunt sale last fall at Marysville, Kan. I bought them for Mr. Farnham and I think they were the best five gilts of the 25 sold

POLAND CHINAS.
Poland Chinas with size and quality bred by King Hadley, Chief and Long Look. Cholera immune. Stock for sale.
LAMBERT BROS., SMITH CENTER, KAN.

SPECIAL BOAR BARGAINS
 15 yearling and spring boars for sale, sired by Cavett's Mastiff by King Mastiff and Sterling by Brookside, by Hadley. \$20.00 to \$30.00 to move them quick.
A. L. ALBRIGHT, WATERVILLE, KANSAS

Wiebe's Immune Poland March boars weighed 800 lbs. Nov. 1st with 7½ in. bone. Choice March and April boars, \$2.50 to \$5.00 reduction in order to close out and get ready for our Feb. 5th bred sow sale.
G. A. WIEBE, BEATRICE, NEBRASKA.

Blough's Large Type Poland
Big Growthy Spring Gilts
 Also a few tried sows and fall yearling gilts safe in pig to the good boars Valley Coin and A Great Orphan for February and March litters.
Come and see these hogs
 If you are disappointed in their size or quality we will pay your car fare home. Yours for business and at prices we both can afford. Write your wants today. Address.
JOHN BLOUGH, Bushong, Lyon County, Kansas.

POLAND CHINAS.
Becker's POLAND CHINAS
 Spring gilts, Hadley, Expansion, Mastodon, and other leading strains and safe in pig to Orphan Boy, by Orphan Chief. Fall pigs, pairs and trios, by Orphan Boy and Hadley's Wonder, a grandson of A Wonder.
J. H. BECKER, NEWTON, KANSAS

Courtland Herd Big Type Poland
 For Sale: boars and gilts by Long John. Gilts bred to Orange Wonder 2d or Tecumseh 2d.
W. A. MCINTOSH, COURTLAND, KAN.

I HAVE SOME FALL PIGS for sale at a bargain. Priced to sell. Sired by my blue ribbon, reserve champion and grand champion boars. **W. Z. BAKER, RICH HILL, MISSOURI**

Both Large and Medium Type Poland—300 Head
 Great big, stretchy, spring pigs from mammoth sows, the kind that have show type and yet with abundance of size. We want to sell only the kind that will please you and at prices that will make you buy more.
 Write today. **Olivier & Sons, Danville, Kan.**



DOOLEY'S SPOTTED POLANDS
 Etterville Breeding Farm, home of the old original spotted Poland Chinas. I am selling spring pigs, either sex, sired by five of the biggest and best spotted boars of the breed. Pairs and trios not related. Get your order in early as they are going fast. Over 100 head to select from.
EDGAR DOOLEY, EUGENE, MISSOURI

LOOKABAUGH POLAND CHINAS
600 Head. Best of Large Type Breeding.
 A Wonder, Hadley, Designor, Long King and other noted blood lines.
ANY FARMER CAN AFFORD ONE 100 SPRING BOARS
 They grow big and mature early and will breed just that way for you. Why not have a crop of pigs next spring that not only will look good, but make hogs big enough to ship out next fall before the weather gets cold. I want to sell 50 of these boars to farmers the next 30 days and when your pigs arrive if you are not satisfied you have made a good buy I will refund your money cheerfully. But you must do business quickly if you get one of these good boars. Also bred sows and gilts.
H. C. LOOKABAUGH, Watonga, Oklahoma



POLAND CHINAS
Closing Out Sale
ROCA, (Lancaster Co.), NEBR.
Monday, February 1st.
IN HEATED SALE PAVILION



GRAND CHAMPION QUEEN OF WONDERS.
50-Head-50
 As big and good in every way as were ever offered in one auction.
 10 tried sows, including Queen of Wonders, grand champion sow at Nebraska State Fair this season and her litter sister, 800 pound sows, 13 fall yrags, including three full sisters to the grand champion sow, 25 spring gilts, two full sisters to and one daughter of the grand champion sow.
 Twenty daughters and ten granddaughters of the great Nebraska Wonder, by A Wonder, are included and 25 head are bred to him. Remember he sired the winners shown by us the past season, defeating individuals that won at Illinois, Missouri, Kansas and Iowa. Those related to Nebraska Wonder will be bred to See Expansion, a boar connected to Nebraska Wonder, Big Bone, and Expansion. A few are bining the blood of Giantess, Big Bone, and Expansion. A few are bred to Smooth Charlie, by Big Smooth Price, brother to Big Ben and Big Joe. Nebraska Wonder is included in the sale; he won't bring half his value. Catalog for the asking. Roca is on the Burlington and Union Pacific and can be easily reached from all parts of Nebraska and Kansas. Everyone welcome whether they buy or not. Free hotel accommodations.
Beall & Jackson, Roca, Nebr.
 AUCTIONEER—H. S. Duncan.
 Jesse Johnson represents this paper. Send bids to him in our care.

O. I. C. HOGS. O. I. C. FALL BOARS REGISTERED FREE. HENRY KAMPING, ELSMERE, KANSAS.

Coon Creek O. I. C. Herd 32 Sept. pigs, both sexes, spring boars and gilts, and choice brood sows for sale. A. G. Cook, Luray, Kan.

Sunny Side Herd O. I. C. 80 Spring pigs both sex, pairs and trios not related, best of breeding, priced right. W. H. Lynch, Reading, Kan.

Grandview Stock Farm 25 O. I. C., March and April, boars and gilts. Special prices for the next thirty days. ANDREW KOSAR, Delphos, Kan.

O. I. C. BRED SOWS and GILTS A few tried sows and gilts bred for spring farrow; boars ready for service, pairs and trios not related. Best I ever offered. Very reasonable prices. JOHN H. NEEF, BOONVILLE, MISSOURI

MAPLE GROVE O. I. C.'s Pigs 2 to 3 mo. old \$8.00; 3 to 4 mo., \$10.00; 4 to 5 mo., \$12.00; pairs and trios no kin. Gilts farrowed May 2nd, bred to farrow in April, \$20.00. Gilts farrowed last March bred to farrow in March and April, \$22.50. Gilts farrowed January, 1914, bred to farrow in March and April, \$25.00. All bred to boar that won three first premiums at St. Joe, Interstate fairs, last August. Sows to farrow second litters in March, \$30.00; sows to farrow third litters in January, \$35.00; bred to fine herd boar. Entire herd in perfect health and never had cholera on farm. F. J. GREINER, BILLINGS, MISSOURI

BERKSHIRES. Hazlewood's Berkshires Spring boars, bred gilts-immune; priced to sell. W. O. HAZLEWOOD, WICHITA, KANS.

Large English Berkshires 2 outstanding fall boars now ready for service, price \$40.00 and \$50.00 each. 30 head of spring boars at \$25.00 to \$40.00 each. 50 head of sows and gilts bred for spring litters, price \$35.00 to \$75.00 each. Address H. E. CONROY, Nortonville, Kan.

Walnut Breeding Farm BERKSHIRE boars and gilts, spring farrow, grandsons of Barron Duke 56th, Big Crusader and Masterpiece 7000 and out of Lord Premier sows, also an imported bred outstanding 2-year-old boar and a few good Hereford bull calves. Leon Waite, Winfield, Ks.

BERKSHIRES Help me put Berkshires on every farm - some nice boars ready for service, prize winners, also some nice bred gilts. FRED HALL, LONE WOLF, OKLAHOMA

OUTSTANDING BERKSHIRES Priced to SELL Six spring boars ready to ship; two at \$25 each; two at \$35 each and two at \$50 each. Also one of our herd boars, Ideal Centerpiece 17845 at \$50. 15 sows and gilts and 30 pigs ready to ship. Buy early and save money. J. T. BAYER, YATES CENTER, KANSAS

BERKSHIRES for show and utility purposes. Write for prices, describing your wants, and get a photograph of the animal quoted you and thus have some idea of what you are going to get for your money. Kiesler Farm, Perryville, Mo.

Special Offering Sutton Farm Berkshires 125 head for sale, 10 service boars, 15 bred sows and gilts, 100 fancy spring pigs, at attractive prices. Write today. SUTTON FARM LAWRENCE KANSAS

HAMPSHIRE. Registered Hampshires Choice boars and gilts, well marked. A. Swanson, Winona, Minn.

REGISTERED HAMPSHIRE 150 gilts and boars, all ages. Cholera immuned. Description guaranteed. C. E. LOWRY, Oxford, Kan.

Reg. Hampshire Gilts Bred or Open Also fall pigs, and my herd boar. Priced to sell. F. B. WEMPE, Frankfort, Kansas

HAMPSHIRE Best of blood lines, well marked pigs, pairs or trios, with young boar to mate gilts. Breeding stock at all times for sale. Satisfaction guaranteed. S. E. SMITH, LYONS, KANSAS.

For Hampshire Hogs, Dutch Belted Cattle, Arab Stallion COLLIE DOGS AND GEESE FEATHERS. WRITE C. W. WEISENBAUM, ALTAMONT, KANSAS.

Pure Bred Five choice Hampshires; 2 gilts and 3 boars, 7 months old; 150 pounds. \$18.00 each. Also choice Indian Runner drakes, \$1.00 each. HENRY SCHMITZ, ALMA, KANSAS.

SUNNY SLOPE FARM HAMPSHIRE Pure bred, registered, well-belted, growthy, vigorous and immune Hampshire Hogs. I guarantee to please you or adjust any difference to your complete satisfaction. FRANK H. PARKS, Olathe, Kansas

and the gilt offering in this sale was one of the best of the season. This sale will be held in Hope, Kan. It will be advertised in near issues of the Farmers Mail and Breeze. Look up his advertisement in this issue.

Nutter's Shorthorn Sale. J. D. Nutter, Morrowville, Kan. (Washington county) has claimed February 23 for his draft sale of Shorthorn cattle and will sell them in the big sale pavilion at Washington, Kan. He will sell 30 head of Shorthorns, consisting of 20 breeding cows and all of them with calf. Some choice young bulls and four spring calves. The offering will be in its everyday dress and will prove one of the real good Shorthorn offerings of the season. Mr. Nutter is a pioneer breeder in northern Kansas and is not a stranger. You can ask him today to mail you his catalog as soon as they are off the press. The sale will be advertised in the Farmers Mail and Breeze in later issues.

Jacks and Stallions. In this issue will be found the advertisement of Jas. B. Haley, Hope, Kan., in which he is advertising three jacks that were in service last season and they are good ones. He is also offering a Percheron stallion and a few Percheron mares. All are registered. Mr. Haley has been in the jack business for over 20 years and is a believer in purebred livestock of all kinds. His big two days' sale of livestock held at Hope in October brought over \$10,000 and was one of the big sales of the season. These jacks which he is offering are the right kind or they would never have been on the Haley farm this long. The Percheron stallion is a splendid fellow and very popular in the vicinity of Hope where he has many colts to his credit. Write him today and get his prices and descriptions. Mention the Farmers Mail and Breeze when you write.

Poland Spring Boar Bargains. J. F. Foley, Oronoque, Kan., will sell Poland Chinas at Norton, Kan., Saturday, February 13. I want to impress on Poland China breeders everywhere the importance of this sale. Mr. Foley has been one of the best buyers of the right kind and his sale offering on February 13 is as good as will go through any sale ring in Kansas. He has not only been a good buyer but he has been a good caretaker as well. Panama Giant, which is slated to head this great herd, is one of the great young Poland China boars in the West. The offering is sired by eight different boars and bred to as strong a galaxy of herd boars as will be found in any herd in the West. Be sure to get this catalog and attend this sale or be represented in this sale. The sale will be advertised in the Farmers Mail and Breeze in later issues but you better write him today and have him book you for a catalog. Look up his card in the Poland China section in which he is offering bargains on some spring boars to move them quick.

Duroc Boars on Approval. J. R. Jackson, Kanopolis, Kan. (Ellsworth county) is offering your choice of extra Duroc-Jersey boars at very low prices and will ship you a boar on approval. If he is not right and a bargain ship him back. No money until you say the boar is all right. For some reason Mr. Jackson has not had a demand for his boars. He is a new breeder and is not so well known as others but his herd is one of the good ones in the state. The writer visited it last week and the 30 March and April boars he is offering are really extra good and sired, many of them by old Dreamland Col., the great boar that Leon Carter had at the head of his herd for so long. These boars are well grown and are big, stretchy fellows and as the season is late they will be sold very low and shipped on approval. That is, he will ship you a boar and you can pay for him after you get him and see that he is all right. He will hold a big public sale of 50 Duroc-Jersey sows at his farm near Kanopolis, February 23, and will sell one of the best offerings of the season. The sale will be advertised in the Farmers Mail and Breeze.

The Right Kind of Polands. Monday of last week I visited George Bingham, Bradford, Kan., and his herd of registered Poland China hogs and Hereford cattle. Mr. Bingham is a veteran Poland China breeder and started in the business at Manning, Ia., where he owned one of the good Iowa herds until he moved to Mexico, Mo., where he continued in the business and Kansas breeders will remember Mr. Bingham as one of the prominent Missouri breeders. About four years ago he sold out there and came to Kansas and purchased a choice half section farm in Wabasha county near the town of Bradford and about four miles from Eskridge. He is improving the farm and it is to be his future home. His Poland China herd is one of the best big type herds of Poland Chinas I have visited this season. His Hereford cattle represent prominent families and is an unusually strong herd. In this issue of the Farmers Mail and Breeze he is starting his card in which he is offering at private sale 50 bred sows consisting of young tried sows, fall gilts and spring gilts. The fall and spring gilts are by B's Big Orange, by Big Orange, Standard, by old Bell Metal, and King Hutch, by Big Hutch. They are bred to B's Big Orange and Valley Coin, for March, April and May farrow. Write for prices and descriptions. Look up his advertisement in the Poland China section of the Farmers Mail and Breeze.

Pawnee Crimson Sow Sale. In this issue will be found the advertisement of Dana D. Shuck's Duroc-Jersey bred sow sale at Burr Oak, Kan. Dana Shuck is one of the real live wires in the Duroc-Jersey business in northern Kansas and this is his regular annual bred sow sale. The sale will be held in comfortable quarters in Burr Oak. The offering numbers 40 head, 35 extra well grown gilts with the very best of feet, backs and simply good all over. They have been carefully handled and will prove sure money makers for their purchasers. About half of them are by Pawnee Crimson, the great herd boar owned by Mr. Shuck. This boar is 3 years old and was sired by Crimson Wonder 3d and out of a B. & C's Col. dam. He is big and good from end to end. He could be made to weigh 1,000 pounds easily and has wonderful quality for a hog of that size. He has a splendid cherry color and would be very hard for an expert to fault. He

DAIRY CATTLE. HOLSTEINS FOR SALE high bred registered months old. N. S. AMSPACKER, JAMESTOWN, KANS.

35 Head of 1, 2 and 3 year old JERSEY HEIFERS also a few cows and two registered bulls, a nice lot. Priced to sell. R. F. HODGINS, SILVER LAKE, KAN.

Higginbotham's Holsteins Registered Holstein bulls for sale, from a month old up to two years old, many of them from A. R. O. Dams. They are priced so they sell readily. If you need a bull see ours before you buy. HIGGINBOTHAM BROS., Rossville, Kansas.

Sunflower Herd Registered Holsteins A number of choice young bulls all from A. R. O. dams and from proven sires and granddares. (A good bull is a profitable investment, a cheap bull will prove a disappointment.) Buy a good one from F. J. SEARLE, OSKALOOSA, KANSAS

Linscott JERSEYS Premier Register of Merit Herd Est. 1878. Bulls of Reg. of Merit, Imported, Prize Winning stock. Most fashionable breeding, best individuality. Also cows and heifers. Prices moderate. R. J. LINSOTT, HOLTON, KANSAS

BONNIE BRAE HOLSTEINS I am offering this week 7 head of Registered heifers coming two year olds and 6 head of cows from 3 to 5 years old. Will make an attractive price on the bunch. IRA ROMIG, Sta. B, TOPEKA, KANSAS.

HIGH GRADE HOLSTEINS Over 200 head in herd. Special prices on cows and 40 yearling and 2-year-old heifers, sired by Sindt Butter Boy King, whose dam and granddam were 27 lb. cows. 40 miles west of K. C. N. EAGER, R. R. No. 8, Lawrence, Kansas

Holstein Herd Material Choice Bull Calves; Serviceable Bulls; and Females: Hard headed by Wauseon King Korndyke, a grand-son of Fontic Korndyke, that sired 103 A. R. O. daughters. T. M. EWING INDEPENDENCE, KAN.

GUERNSEYS I have one very choice Guernsey bull of serviceable age, out of imported sire and dam; also one six-months' old bull—very choice. OVERLAND GUERNSEY FARM, OVERLAND PARK, KANSAS



HIGH GRADE and REGISTERED HOLSTEINS OVER 100 HEAD OF COWS, HEIFERS AND BULLS. The silo and dairy cow are here to stay. There is big money and sure profit in the dairy farm if you use the right kind of cows. The Holstein has proven her worth in the North and East and is sure to take the lead in the southwest. Visitors welcome; call or write today. Clyde Girod, Towanda, Kansas

DAIRY CATTLE. HOLSTEINS - CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

ABERDEEN-ANGUS. Aberdeen Angus Cattle DUROC HOGS Johnson Workman, Russell, Kan.

ANGUS CATTLE I will sell my herd bull Rutger Heatherson 3rd, 118104 and eight coming yearling bulls; also some females, open and bred. My herd consists of animals of the best breeding, strong in the blood of the Blackbirds, Queen Mothers, Bruce Hills, Heatherblooms and Lady Jeans. W. G. Denton, Denton, Kansas

Aberdeen Angus Cattle 50 Females Yearlings and coming yearlings; also 50 Bulls These are the best cattle we have ever offered and priced for quick sale. Sutton & Porteous, E. G. Lawrence, Kan.

HEREFORDS. Prime Herefords Clover Herd headed by Garfield 4th, by Columbus 53rd. Choice cows from Funkhouser, Sunny Slope, Newman and other noted herds. FOR SALE—Choice bulls of all ages; also heifers and cows. Will sell Garfield 4th, because related to my young stock. F. S. Jackson, Topeka, Kansas

Sedlacek Herefords 14 bulls from 6 to 16 months old for sale. Popular breeding and the best of individuals. Write for full particulars and prices. J. F. Sedlacek, Blue Rapids, Kan.



Hereford Sale Wamego, Ks., Saturday, Jan. 23 50 Breeding Females 15 Bulls, 18 to 24 Months Old I am going to offer to the public on this occasion one of the most useful lots of breeding cattle that has been presented at public auction in recent years. The females will include 10 young, useful cows that have proven good producers; FIFTEEN two-year-old heifers, having abundant scale and quality, sired by DALE 216552, DANDY ANDREW 27th and TOGO 257836 and safe in calf to the champion SIMPSON; TWENTY-FIVE yearling heifers sired by LERADO BOY 35846, DANDY ANDREW 6th, BEAU MISTIC 39th and OHIO DONALD 290050. FIFTEEN BULLS, 18 to 24 months old by the sires above mentioned. Write for catalog and be my guest January 23. CARL MILLER, Belvue, Kan. AUCTIONEER—Col. Fred Reppert.

MOUSELS' HEREFORDS AT AUCTION Cambridge, Nebraska, January 20, 1915 Sale to be held under cover, commencing at twelve thirty sharp. Cambridge is located on the main line of the Burlington running from Kansas City and Omaha by the way of Denver and is easy reached from any route. The most select lot of Herefords we have ever offered at public auction. Fifty bulls and thirty females of good ages, bone and quality. Herd headers and show bulls of the highest order. Range bulls that are strictly high class and of good strong, serviceable ages; show females, and a number of young cows and heifers with calf at foot and rebred to our best bulls. Will hold cattle sold to quarantine districts until cattle can be shipped, free. Send for illustrated catalog and full particulars. MOUSEL BROS., Cambridge, Neb.

GALLOWAYS.

Registered Galloways

250 in herd. 40 bulls from 5 to 18 months old by the 2300 lb. Carnot. Mr. Shuck's catalog is now ready and will be mailed you as soon as you send him your name and address. If you can't come send your bids to John W. Johnson of this paper and they will be looked after carefully. Get the catalog today and come to this sale.

CAPITAL VIEW GALLOWAYS
Bulls from 6 months to 2 years; also a few females modern and quick maturing type.
E. Clark, Topeka, Kan.

POLLED DURHAMS.

POLLED DURHAM BULLS
Selected Froun X8883, also a coming 2-year-old, by Spring Fork Orange. T. M. Wilson, Lebanon, Kansas.
Deepy Hollow Polled Durham Cattle
12 good bulls coming 1 year old, bred cows and heifers for sale. Also a number of good calves.
C. M. HOWARD, Hammond, Kansas.

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE
Write for prices on breeding cattle.
E. FOSTER, R. R. 4, Eldorado, Kansas.
RED POLLED CATTLE
Choice bulls, cows and heifers for sale. Best of breeding. Write or better come and see.
HARLES MORRISON & SON, Phillipsburg, Kan.

RED POLLED CATTLE
BEST OF BLOOD LINES and cattle that will please you. Cows, heifers and young bulls, at attractive prices.
J. W. POULTON, MEDORA, KAN.

SHORTHORNS.

CLOSING OUT SALE
Scotch Topped Shorthorns
12 bulls, 8 to 23 months old, reds and whites. 11 cows and heifers safe in calf or calf at side.
EBY BROS., MARION, KAN.

Shorthorn Bulls

6 bulls from 10 to 14 months old. Also 6 heifers from 1 to 2 years old. Got by pure Scotch sires. A grand lot. Prices reasonable.
L. M. Noffsinger, Osborne, Kan.

SCOTCH and SCOTCH TOP BULLS

Three pure Scotch bulls; one 12-month-old Butterfly; one 8-month-old Orange Blossom, and one Brawley Bull. Three herd headers. I have other good bulls that carry several Scotch crosses. All priced to sell.
S. B. AMCOATS, CLAY CENTER, KAN.

Shorthorns Priced to Sell

A nice lot of Scotch and Scotch topped bulls 8 to 20 months old; also cows and heifers safe in calf. These cattle can be bought so they will make you a good profit. Do not wait, first come, first served.
**H. C. Stephenson
CLEMENTS, (CHASE CO.) KANSAS**

SHORTHORNS

Choice Young Herd Bulls 10 to 14 months old. A few Choice Young Heifers. Some Cows close to calving. Everything guaranteed free from tuberculosis, or any other contagious disease. Prices very reasonable.
C. H. White, Burlington, Kan.

Pearl Herd Shorthorns

Valiant 346162 and Marengo's Pearl 291962 in service on herd. Choice early spring bulls by Valiant for sale. Thrifty and good prospects. Scotch and Scotch Topped. Correspondence and inspection invited.
**C. W. Taylor
Abilene, Kansas**

Three Shorthorn Bulls

Almost perfect in conformation yet representing three distinct types. **Love**, by Lavender Lord, by Avondale and out of Muller, a great cow. One of the best you ever saw. **Goods**, by Choice Goods and out of Muller, a great cow. One of the best you ever saw. **Long**, deep, wide, low-down, beautiful coat; eight months old; the prize-winner **Avondale 2nd**, out of my Butterfly cow, dropped May 18th, is too good to sell but I can't afford to keep him. It pays to buy the best, I have them. You can afford to buy them. Photos on request. (Also three extra good Duroc-Jersey boars.) Write today.
D. O. WILSON, Winfield, Kan.

Is without question one of the very best boars in northern Kansas. There will be five tried sows in the sale and they will be bred to him. There will also be 11 Hereford cows and heifers and a registered bull 3 years old sold in this sale. The cows and heifers are not registered but are purebred. Mr. Shuck's catalog is now ready and will be mailed you as soon as you send him your name and address. If you can't come send your bids to John W. Johnson of this paper and they will be looked after carefully. Get the catalog today and come to this sale.

N. Missouri, Iowa and Illinois

BY ED. R. DORSEY.

Photos of Sale Offering.

Ira Dodson & Son of Aledo, Ill., have photos of their wonderfully good offering of Duroc-Jerseys which they will be glad to send to any of our readers. These good hogs will be sold at public auction January 26. They are as fine as we have ever seen. The announcement of this sale appeared in our last issue and those who have not seen our catalog will be mailed one at once. If they write Messrs. Dodson requesting catalog and photos. We expect to attend this sale and hope to see many breeders from west and of the Mississippi River in attendance. If you find it impossible to attend this sale and want something of which you will be extremely proud send the bids to me in Messrs. Dodson's care.

Announcement of Breeders' Sale.

There has been some speculation as to whether the big sale managed by C. W. Hurt of Arrowsmith, Ill., and held annually at Bloomington, Ill., would be a success this year on account of the foot and mouth disease. In a letter dated January 6 Mr. Hurt says that he is all ready for the sale and that there is absolutely nothing in the way. He says the outlook is for the best sale they have ever had and that he will guarantee everything stated in his advertisement. He will go into the sale with 408 head of horses; 325 head of registered draft horses and 60 ponies; the balance being coach and trotting horses. This offering will represent consignments from 124 of the best breeders in the country and will be held on schedule time, January 26-29. If you have not already asked Mr. Hurt for catalog do so at once and mention this paper.

Nebraska

BY JESSE R. JOHNSON.

W. E. Willey of Steele City, Neb., whose Poland China herd won at a lot of the big fairs of the West the past season, announces that he will sell his entire show herd at his February 12 sale to be held at Steele City. A big lot of the offering will be bred to Superba, winner of 25 firsts during the show season.

Last Call For Briggs's Sale.

One of the very first Duroc-Jersey bred sow sales of importance this year will be that of George Briggs & Sons to be held at Clay Center, Neb., Monday, January 25. For size and quality coupled with the best breeding this offering will be second to none. Remember everything is immune and 40 head are bred to the great Regulator 2d, champion at Kansas last year and litter brother to the \$2,000 Illinois champion. If you can't be at this sale send bids in care of George Briggs & Son, to Jesse Johnson.

50 Head Immune Polands.

Phil Dawson, Endicott, Neb., promises the Poland China breeders of Nebraska, Kansas and Missouri that he will show them one of the greatest offerings they ever saw at his sale to be held at South St. Joe, Mo., Tuesday, February 9. Among the attractions will be a lot of fall gilts bred to the great boar Panorama, one of the best sons of old Expansion and full brother to Expansion See, the boar that weighed 1,125 pounds at 29 months. Panorama is closer up to the Corwins than perhaps any other boar now in service. Write now for catalog, mentioning Farmers Mail and Breeze.

A Well Known Importer.

Daniel Kelly & Son, Importers and breeders of Percheron stallions, have an announcement in this issue. Never before says this firm have we had on hand so many big, black, ton stallions. They have style and action and are being priced very reasonably, for the kind. Daniel Kelly, senior member of this firm, has been in the horse business for a quarter of a century and knows as many horsemen on both sides of the water as any man in the business. He knows horses and has always insisted on buying the very best for his customers. Daniel Kelly & Son would like to hear from anyone who is in the market for stallions. Address them at their Lincoln address. Address them at their Lincoln address, which is 1012 O St., opposite the First National Bank. Please mention this paper when writing.

Buy the Best Here.

Only once in a while do the Poland China breeders of the territory where they live have a chance to buy at public auction a breeder's entire herd. If that herd ranks high and includes individuals good enough to win grand championships at leading state fairs then the opportunity is still of more consequence. The announcement that the great herd of big type Poland Chinas is to be dispersed on February 1 will be received with some surprise but the wise ones will read the announcement with a firm resolve to have one or more of the great sows almost at any cost. The good ones are scarce enough and the well informed breeder will see his chance here. The great sow Queen of Wonders, that was grand champion at Nebraska the past year is included, together with several of her daughters and sisters. Among them her litter sister Hadley's Choice, the equal in every way of the grand champion sow. This pair of sows will weigh 1,500 pounds in flesh. Their dam, Fancy Hadley, one of the greatest breeding sows living, will be an attraction as will Nos. 11 and 12, full sisters and winners at Nebraska State Fair. Two tried sows besides those already mentioned are daughters of Neb. Wonder, one of the best breeding boars ever brought to the state. He is the sire of all the show stuff and everything in the sale is not related has been bred to him. He has the best head ever seen on a big type boar and his get all have quality

Lookabaugh's Shorthorns

More and better Shorthorns for my customers than ever before. \$20,000 worth of pure bred Registered Shorthorns to sell the next 60 days. \$1000 properly invested in these cattle will make you rich. Come early and get your pick; we pay your car fare home if you do not buy.

Foundation stock that carry the blood of the very best Scotch families.

THE FARMER'S COW

Strong in the blood of the most noted sires of the breed.



2 heifers and a bull - milking strain, not related - \$250.

2 fresh milk cows, calf at foot and rebred - milking strain - \$350.

8 head of heifers, milking strain and Scotch herd bull all for \$1,000.

A car load of rugged young bulls, \$100 to \$150 each.

A WORD TO MR. BREEDER

It is easy to increase the value of every Shorthorn you raise from \$10 to \$30, simply by using a better breeding bull. Stop and figure what this means even on the first crop of calves, whether you have 5 or 50 breeding cows and heifers in your herd. I have never before had such splendid herd bull material from which to select. I want to place these bulls where they will do the most good. The success of those who buy these herd bulls will prove more than all my prize winning and show ring honors my ability as a breeder. Come and see them, you will say with others they are the greatest bunch of herd header material you ever saw on any farm.

CALL ON OR WRITE

H. C. Lookabaugh, Watonga, Okla.

Reduction of Shorthorns

Come to Doyle Valley Stock Farm



175 Head of Shorthorns

consisting of many choice animals that carry the blood of noted sires and fashionable families. Built up from foundation stock purchased from the best breeders of the Southwest.

50 HEAD MUST SELL IN 60 DAYS. Here is the Bargain Counter for the man who expects to start in the Shorthorn business. All kinds of Shorthorn Breeding Stock from which to select - Cows, Heifers and Bulls, cows with calf at side others due to calve soon. Included are grandsons and daughters of such sires as Avondale, Prince Odette and other noted sires. If you want Shorthorns come now. Write, wire or phone me when to meet you at Peabody either Rock Island or Santa Fe Depot.

M. S. CONVERSE, Peabody, Kansas

ECKHARDT'S SHORTHORNS

More Than 100 HEAD Must Sell by Feb. 15th
Cows and heifers bred or with calf at foot. A choice lot of young heifers and bulls 8 to 20 months old.

A Rare Chance for Breeder or Farmer

to add to or lay the foundation for a Shorthorn herd. Rose Dale by Avondale and out of Rose Wood 2nd, a sire of great merit at head of herd. 75 cows with calf at foot or bred to this son of the champion Avondale. When you visit this herd and see 30 of his last season's get, handsome sons and sweet daughters, they will prove to you his ability as a sire and you will want some of these cattle. We have raised these cattle and know what they are. The female foundation is mostly from my Wisconsin herd and are strong in milking qualities.

Special Prices Will Be Made

to those wishing the entire herd or who buy several head. You cannot afford to wait if you want good registered Shorthorns. These cattle must sell and will sell soon. Wire, phone or write when you will come. Phone No. 1212.

Levi Eckhardt, 1203 E. 10th St., Winfield, Kas.

HOLSTEINS

Herd headed by Sir Jullanna Grace's DeKol. Dam one year, semi-official, milk 22087 pounds; Dam one year, semi-official, 1026 pounds butter in three years (world's record). We will let this great bull to a few good cows this season at \$25.00. We have several young bulls for sale. Write for particulars to

SHULTHIS, ROBINSON & SHULTZ, (Owners), Independence, Kas.

WE HAVE BEEN IN THE HORSE BUSINESS MANY YEARS



And we have never at any time owned as many ton stallions as we have at the present time. If you are looking for a stallion with size, quality and action at a reasonable price come and see us.

Daniel Kelly & Son City Office, Lincoln, Neb. 1012 O St.

SHORTHORNS.

SHORTHORN BULLS

4 Shorthorn bulls, 9 months old, white and roans, sired by Golden Cruickshank, pure Scotch. From the same family as Lavender Lord, by Avondale. C. E. HILL, TOBONTO, KANSAS

PUREBRED HORSES.

Miami County Breeders Sale

Thursday, February 25, 1915
 J. M. Nolan, Paola, Kan. Percherons
 J. D. Detar, Spring Hill, Kan. Percherons
 J. W. Masters, Paola, Kan. Percherons
 Heflebower & Laskie, Bucyrus, Kan. Percherons
 M. A. Kelly, Bucyrus, Kan. Herefords
 H. L. McDill, Paola, Kan. Herefords
 C. J. Woods, Chiles, Kan. Polled Durhams
 P. L. Ware & Son, Paola, Kan. Poland Chinas
 L. W. O'Keefe, Bucyrus, Kan. Poland Chinas
 For information write C. C. HAGANS, Secy., PAOLA, KANSAS



German Coach

70—Horses—70
 The great general purpose horse. Satisfaction guaranteed. Write or call.

J. C. BERGNER & SONS, Pratt, Ks.

STALLION FOR SALE

Best Percheron in Kansas. Coal black, coming 3 years old, will mature 2050 and has the style of a coacher. Registered, sound and right in every way. \$750.00 buys him.

Sutton Farm, Lawrence, Kan.

Percherons Belgians

I have a fine bunch of Percheron, Belgian and French draft stallions and one Shire stallion. Also mares, colts and fillies that I am offering for sale very cheap. I will sell you a stallion ready for service next spring for from \$300 to \$500. Some extra good ones higher. Colts and fillies very cheap.

J. M. NOLAN, Paola, - - Kansas

JACKS AND JENNETS.

Kentucky Jacks and Saddlers

Fine Kentucky, Mammoth jacks with plenty of style, bone and weight. Saddle stallions, mares, colts and fillies. Buy your jacks and horses on the farms where they are bred. Home cured bluegrass seed. COOK FARMS, Box F, Lexington, Ky.

HALEY'S STOCK FARM

For Sale: Three splendid jacks in service last season. Also one reg. Percheron stallion and a few good Percheron mares. Write JAS. B. HALEY, HOPE, KANSAS

Big Boned Jacks and Jennets

Herd won more prizes at Oklahoma State Fair 1914 than all others combined. One of the oldest established herds in the state. J. H. SMITH Kingfisher, Okla.

MAMMOTH JACKS

You will find at my barns one of the largest number of best quality registered, big-boned black jacks, 15 to over 16 hands, to be found in the U.S. Reference, Banks of Lawrence. Location 40 miles west of Kansas City on the U. P. and Santa Fe. Prices reasonable.

Al E. Smith, Lawrence, Kas.

Jacks and Jennets

A good lot of two to six-year-old jacks, well broke and quick servers, the kind that gets business in any community. Reduced prices for the next 30 days. Call or write.

PHIL WALKER MOLINE, KANSAS

35 Years A Breeder For Sale

35 head Jacks and Jennets 14½ to 16 hands. These Jacks have all been raised here on our Farm in Kansas and are acclimated. We are not speculators but raise and sell our own stock. Also 1 Imp. Percheron Stallion and 1 grade Belgian Stallion.
 John L. Jr. No. 5060 Grand Champion, Topoka State Fair, 1914. In His 3-year Old Form.
 M. H. Roller & Son, Circleville, Kan.

along with the size. His dam was Gritter's Top, by Choice Chief Price. Over half of the offering was sired by him or are out of sows sired by him. He will be sold at the sale and it will be a great day's work for the man that bids until he gets him. The tried sows in this sale could not be bought if this were not a dispersion sale and we trust readers of this paper will avail themselves of this rare chance to buy the very best. Write for catalog of this sale and if unable to attend let Jesse Johnson of this paper make a selection for you. Write him in care of Beall & Jackson, Roca, Neb.

Shoebottom's South Omaha Sale.
 The Shorthorn cattle sale made at South Omaha, January 6, by Edgar Shoebottom of Fairbury, Neb., was only fairly well attended and the prices received were rather low considering the quality of the offering. The bulls of serviceable age sold fairly well, but the younger bulls and heifers sold far below their value. Some of the cows were a little aged but showed lots of vigor and were great bargains at the prices for which they sold. The pure Scotch bull Butterfly Sultan topped the sale at \$200, going to J. A. Rankin of Tarkio, Mo. This bull was a splendid roan and one of the best individuals that has been sold this season. Mr. Rankin also bought several females. That part of the offering sired by Mr. Shoebottom's herd bull Baron Sultan was especially good and there wasn't a breeder present but what knew most of it sold far below its value. 11 bulls brought \$1,590; average \$144.55. 37 cows and heifers brought \$3,348; average \$90.50. 48 head sold for \$4,930.80; general average \$102.75.

Murray's Immune O. I. C. Sale.
 This week we start advertising for the O. I. C. bred sow sale to be made by the well known breeder Chas. H. Murray of Friend, Neb., February 3. Mr. Murray will sell 40 head in this sale, 35 of which are tried sows and fall yearlings that have raised one litter. This herd is noted for the great size of its individuals. Fairmont Chief, the sire of most of the offering, would weigh close to 1,000 if highly fitted. Mr. Murray has exhibited at Nebraska State Fair for the past three years, always winning a good share of good premiums. Included in this sale is a sow that won second at Lincoln in 1912 in a class of 30. There is no better breeding than will be found in the female part of this herd and everything included in the sale will be set to the boars Fred and Murray's 4 B. boars that have proven their worth as sires. Among the attractions will be the young herd to be sold. Mr. Murray, with the idea of starting some young man in the business cheap, has selected three choice fall gilts and a fall boar not related. This herd will be sold together and should be sought after by those wanting something that can be bought and expressed at little cost. The offering is cholera immune, and the sale is under cover. Write early for catalog and mention Farmers Mail and Breeze.

Moussell's Big Hereford Sale.
 Every lover of Hereford cattle in the West should be interested in the big Hereford sale to be held at Cambridge, Neb., Wednesday, January 20. This is the annual sale of this firm and will contain a big lot of show stuff. Of the 70 head to be sold 40 are bulls of serviceable age, a big per cent of them sired by the great breeding bull Beau Mischief, without doubt one of the greatest living Hereford sires. There will also be a good string of heifers sired by this bull. Other bulls and heifers will be the get of Beau Denver, Princeps A. and Sensation. Herd bulls will be sold at this sale good enough in every way to head any herd in the land and females of outstanding merit will go to the highest bidder. Included will be the entire show herd of 1913. There was never a better time to buy Hereford cattle and never a grander opportunity to buy the best than will be presented at this sale. When buying of Moussell Brothers you are buying at the very fountain head and laying the right kind of foundation. A cow or heifer bought at this sale in calf to Beau Mischief will raise a herd bull for future use in your herd, or a daughter of Beau Mischief bred to Beau Denver or the good breeding bull Parsifal will be a wonderful investment. Write at once for catalog. Mention this paper.

S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.
 Ed Frazier, of Drexel, Mo., will hold his annual bred sow sale at his farm February 10. Mr. Frazier made the top sale of this section last year, and he considers the offering this year much better than any he has ever made. Make a note of this date and watch for other announcements. The catalogs are ready; write for one. Please mention this paper.

John Belcher owner and exhibitor of the great Smooth Columbus has decided to change his date and will sell on February 20. This is one of the most important sales to be made in Missouri this year. Smooth Columbus made such a favorable showing at the Missouri State Fair this fall that Mr. Belcher sold out all his boar pigs at private sale, and could not fill near all his orders. Sows bred to Smooth Columbus will be an improvement to any herd. Watch for display ad in this paper February 6.

Hill's Shorthorn Bulls.
 C. E. Hill of Toronto, Kan. is offering some special bull bargains in this issue of Farmers Mail and Breeze. His offering consists of four Shorthorn bulls about 9 months old. These fellows were sired by Golden Cruickshank, a pure Scotch bull of exceptionally good breeding. These bulls are of good color and good individuals. Look up the announcement in this issue and write Mr. Hill for prices and further particulars.

Watson's Duroc-Jersey Offering.
 R. C. Watson, Altoona, Kan., is always on the alert for the best in Duroc-Jersey breeding. He has had at the head of his herd some of the best bred boars in Kansas. Recently he bought a yearling boar by Defender which he calls Watson's Defender. He is breeding his gilts to this young boar and offering them to our readers at reasonable prices. His offering at this time includes 30 choice gilts and five boars. This offering was sired by sons of Buddy K. 4th and B. & C's Col. These gilts mated with a Defender boar should produce exceptionally good pigs. If interested write Mr. Watson for particulars and prices.

Percheron Stallions and Mares

50 Head of Percherons
 All Registered in the Percheron Society of America



Algarve by Samson at the head of the herd, is a wonderfully impressive sire, weighing over 2200 pounds.

Young stallions and mares by Algarve and big handsome mares of correct type, in foal to him, make up a large part of this offering. His two-year-old daughter was 1st in class at the International and the mares we offer you bred to him are the kind that will do honor to him.

If you want Percherons, we want to meet you and there is no better way than right at our barns and pastures, where you can see what they are and how we raise them. When you see this year's crop of big-boned, square-built, handsome colts you will have a better idea of what we have to sell.

These Percherons are strong in the best blood ever imported from France. They have size, bone and conformation that cannot help but please you if you want the good, big draft type of Percheron. We expect to sell Percherons because we have the right kind and at prices you will say are reasonable. Write wire or phone what you want or when you can call at the farm, 3 miles East of Great Bend. Shipment over both Missouri Pacific and Santa Fe. Call on or address

Harris Bros., Great Bend, Kan.

Watson, Woods Bros. & Kelly Co.

LINCOLN, NEBRASKA
 Imported and American Bred Stallions,
PERCHERONS, BELGIANS AND SHIRES.
 We have a splendid lot of stallions of various ages selected especially for the requirements of our trade. They are big, drafty, clean boned, well finished and good actors. We have never offered better bargains.
150 Choice Holstein Heifers unregistered, from best milk-ing strains, soon to freshen.
OUR PRICES ARE RIGHT



Registered Percheron Studs

We have them, big fellows, 1, 2, 3 and 4 yr. olds. Real Drafters, big bone, lots of quality and action, grown right, will go out and make good both as to sires and foal getters. You lose money if you don't look at Bishop Bros.' Studs before buying. 20 miles east of Wichita on Mo. P. Ry.

BISHOP BROS., Box A, TOWANDA, KANSAS

Brilliant Blood, Jet Blacks, Rich Grays
 Registered Percheron studs, 1, 2, 3 and 4 years old. I grow the ton type with extraordinary bone and heavy quarters—I love a good horse. Come and visit at my plain old-fashioned Percheron farm that has the goods, and lots of them. Don't let anyone tell you that they have Percherons just like Fred Chandler's. Just above Kansas City. FRED CHANDLER, Route 7, Chariton, Iowa.



PERCHERON STALLION, JACK and JENNET SALE

Cherokee, Oklahoma, Tuesday, January 26

4 Percheron Stallions the big draft type; good individuals, good sires and foal getters. Three are registered in Percheron Society of America; the other a French Draft. One is an imported horse, exceptional sire. All of mature age.
4 Good Mature Black Jacks 15 to 15½ hands. All but one in the 1,000 pound class, the kind you want if you want the good kind.
5 Jennets some with colt at side by Big Joe (both jack and jennet); others safe in foal.

Also 30 fine yearling white-face heifers; all by purebred registered sire. Write for particulars.

J. W. SPOON, CHEROKEE, OKLAHOMA
 AUCTIONEERS—H. L. Burgess, Pete Powelson.
 FIELDMAN—A. B. Hunter.

January 16, 1915.

Percheron Sale!

On Wednesday, January 20th, 1915, I will sell at Public Auction, commencing at 10:30 a. m. on my Pioneer Stud Farm, 17 miles south of Salina, three miles east and one mile north of Lindsay, two miles south of Bridgeport, Kansas:

Wednesday, Jan. 20, 1915

45 Head Registered Stallions, Mares and Colts

Consisting of Ten (10) Mares; Sixteen (16) Fillies; Thirteen (13) Stallions; Six (6) Colts. These mares are all bred and in foal by the Grand Champion Stallion Ilmen (80190) 78696. Ilmen (80190) 78696 was awarded Grand Championship at the American Royal Live Stock Show at Kansas City in 1912. Most of these mares were worked on my farm the past summer and every attention was given to secure them safe in foal. My stallions consist of yearlings and two, three and four year olds and without any exceptions I can show you as much weight and conformation as you will find in any one barn. No breeder owns a bunch of yearlings that will excel the ones I am offering in this sale.

NOTE: Also Twenty (20) head of Mules; Fifty (50) head of Farm Mares, part of them heavy in foal and as good as you will find anywhere in the country, from 3 to 7 years old. Five (5) Saddle Horses.

Trains leave Kansas City on Union Pacific for Salina at 8:00 a. m., 10:30 a. m., and 6:00 p. m., each day. **Special Train** for Station at farm will leave Salina on Union Pacific at 8:30 a. m., morning of sale—returning after the sale. Write for catalog. When the clock shows 10:30 we will be selling horses.

C. W. LAMER, Salina, Kansas

AUCTIONEERS—Sayer, Curphey, Crews and Morene.

Oklahoma Breeders Combination Sale

Enid, Okla., February 9-10-11-12

Tuesday, February 9th

35 Poland China bred sows, 10 boars; 20 Duroc-Jersey bred sows, 10 boars. We will sell 20 May gilts that will average 300 pounds; also one of the very best Poland China herd boars in Oklahoma.

Wednesday, February 10th

80 head of registered cattle, including Jerseys, Aberdeen Angus, Herefords and Shorthorns. Sale will include one of the best pure Scotch Shorthorn bulls that will be sold this year; 10 cows bred to him.

Thursday, February 11th

30 Imported and American bred Percheron mares; 15 Imported and American bred Percheron stallions. This is by far the best lot of Percherons ever offered at auction in the Central West. F. S. Kirk consigns 3 fillies sired by the \$10,000 International grand champion, Carnot. One of them a prize winner at the Iowa and Illinois state fairs also 7 extra good fillies bred to the famous Carnot; one of them is a wonder, weighing more than a ton at 2 years. F. N. Garner consigns 3, including a two-year-old stallion; weight 1900 pounds; a

State fair prize winner. C. F. Cooper consigns 4, including the four-year-old Imported stallion, Kravin, weight 2200 pounds, a Kansas State fair prize winner; also a filley by Kravin that was 1st prize winner Kansas State fair. W. S. Boles and Sons consign 12, including stallions and fillies by Hautain, grand champion Kansas, Oklahoma and Arkansas State fairs, also 6 choice mares bred to this famous champion among them 1st prize winner at American Royal also Kansas, Oklahoma and Arkansas State fairs. J. H. Jackson consigns 6, including the four-year-old imported stallion Kor, 1st prize winner Oklahoma, Texas and Louisiana State fairs, 1914. Also a team of mares, weight 4410 pounds, both State fair winners. One of them grand champion two State fairs. All of Mr. Jackson's mares are bred to Albany 2nd, eight times grand champion at State fairs and National shows. Including two times grand champion over all breeds at National Feeders' and Breeders' show at Ft. Worth. A total of 45 Percherons and all good ones.

Friday, February 12th

40 Imported and American bred stallions and mares including Belgian, Shire, Clydesdale, Coach and Standard bred. 10 Jacks.

Special Notice. The sale of W. S. Boles & Son and J. H. Jackson for Feb. 18, has been cancelled; their stock sells in this sale. Write today for free catalog. Sale held up town in heated building.

F. S. KIRK, Manager., Enid, Oklahoma

11¢ a Rod!

The Very Best Wire Fence Ever Made Now Sold Direct To You From Our Big Ottawa Mills With All "Middle" Profits Saved For You!

NOW you can buy the highest quality wire fence of every kind, weight and size direct from the factory at a net cash saving for YOU of from **one-third** to **one-half** the price you have always paid.

This is possible because you pay only **one profit** instead of **three profits**, when you buy on our factory-to-farm plan! When you buy from the local dealer you must pay the **very same factory cost** as if you bought direct from the maker. And in **addition** you must pay **three profits**—the manufacturer's, the wholesaler's and the retailer's. When you buy from the Ottawa Manufacturing Company, you pay the **same factory cost**—and one small manufacturing profit in addition. And you pay a **smaller manufacturing profit** on Ottawa fence because we are able to operate on a smaller margin of profit on each rod of fence on account of our enormous volume of business.

We buy wire in train load lots from America's greatest mills—and we take advantage of every slump in price during the dull seasons of each year to lay in our factory supply. We make up this wire into fence of every style and size and distribute our entire output in carload lots to our big warehouses in Ottawa, Kansas, Brazil, Ind., Denver, Colo., Fort Worth, Texas, San Francisco, Cal., Lincoln, Nebr.

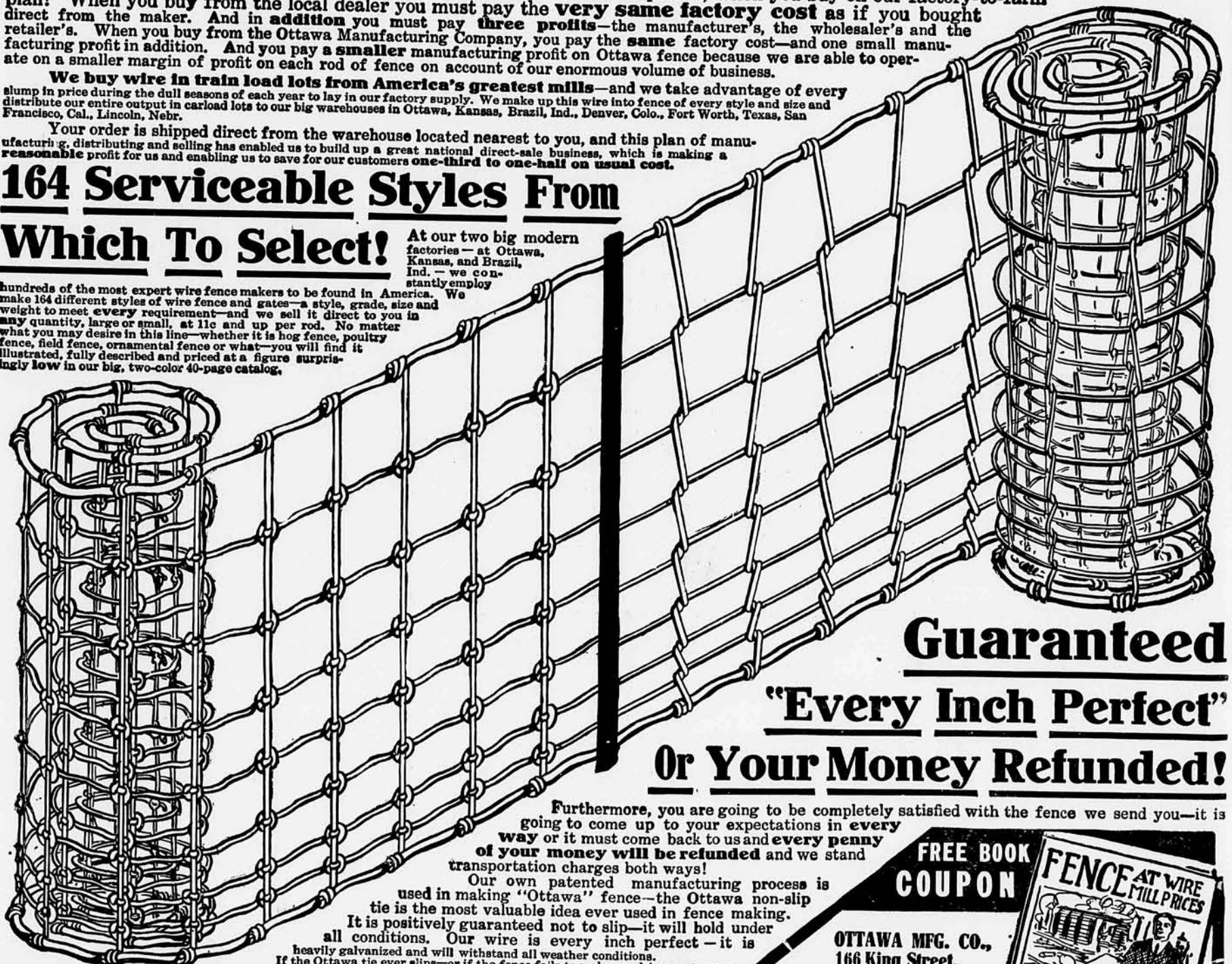
Your order is shipped direct from the warehouse located nearest to you, and this plan of manufacturing, distributing and selling has enabled us to build up a great national direct-sale business, which is making a reasonable profit for us and enabling us to save for our customers **one-third to one-half on usual cost.**

164 Serviceable Styles From

Which To Select!

At our two big modern factories—at Ottawa, Kansas, and Brazil, Ind.—we constantly employ

hundreds of the most expert wire fence makers to be found in America. We make 164 different styles of wire fence and gates—a style, grade, size and weight to meet every requirement—and we sell it direct to you in any quantity, large or small, at 11¢ and up per rod. No matter what you may desire in this line—whether it is hog fence, poultry fence, field fence, ornamental fence or what—you will find it illustrated, fully described and priced at a figure surprisingly low in our big, two-color 40-page catalog.



Guaranteed

"Every Inch Perfect"

Or Your Money Refunded!

Furthermore, you are going to be completely satisfied with the fence we send you—it is going to come up to your expectations in every way or it must come back to us and every penny of your money will be refunded and we stand transportation charges both ways!

Our own patented manufacturing process is used in making "Ottawa" fence—the Ottawa non-slip tie is the most valuable idea ever used in fence making.

It is positively guaranteed not to slip—it will hold under all conditions. Our wire is every inch perfect—it is

heavily galvanized and will withstand all weather conditions.

If the Ottawa tie ever slips—or if the fence fails to make good in any way—tear it down, send it back to us and your money will be promptly refunded.

Get This Big Book of Wire Mill Bargains

You will find our big free wire fence catalogue the most interesting and instructive volume of the kind you ever used. It is filled with wire fence facts from the first page to the last. Scores of illustrations show you just how every style of Ottawa Fence is made and used. Complete descriptions accompany each illustration and every price we quote in this book is a genuine bargain price.

Use the Coupon—or a postcard—and send us your name and address so that we may send you, free and prepaid, YOUR copy of this valuable, money-saving book. Address

OTTAWA MANUFACTURING Co.,
166 King Street, Ottawa, Kansas.

FREE BOOK
COUPON

OTTAWA MFG. CO.,
166 King Street,
Ottawa, Kansas.

GENTLEMEN:

Without obligation on my part, you may send me, free and postpaid, one of your 40-page catalogues of wire fence, gates, etc., as offered in your advertisement.



NAME.....

ADDRESS.....