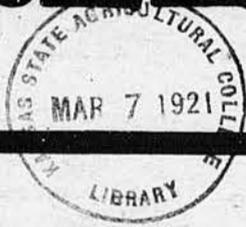


KANSAS FARMER AND MAIL & BREEZE



Volume 59

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Number 10

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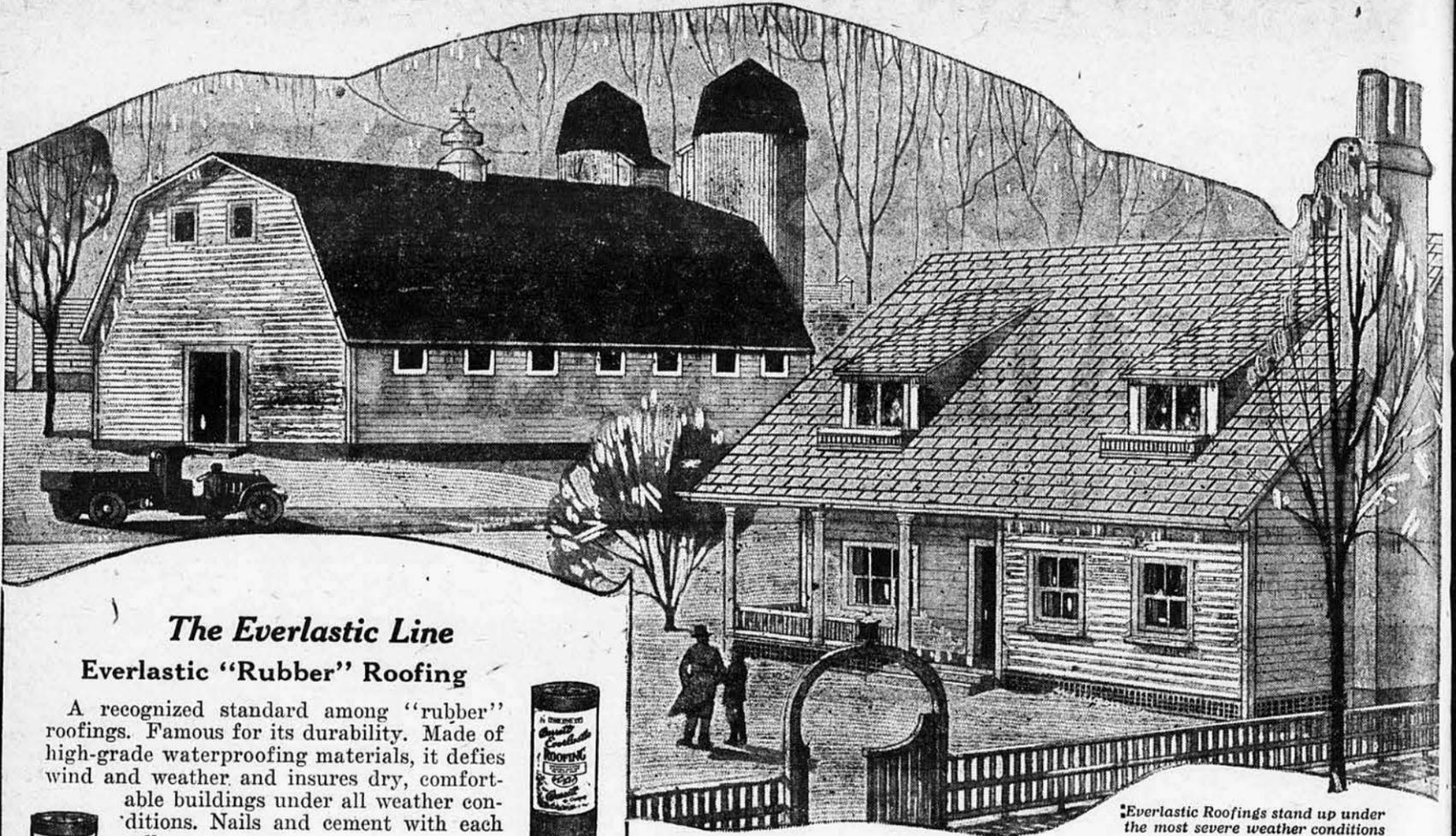
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Everlastic Roofings stand up under the most severe weather conditions

The Everlastic Line

Everlastic "Rubber" Roofing

A recognized standard among "rubber" roofings. Famous for its durability. Made of high-grade waterproofing materials, it defies wind and weather and insures dry, comfortable buildings under all weather conditions. Nails and cement with each roll.

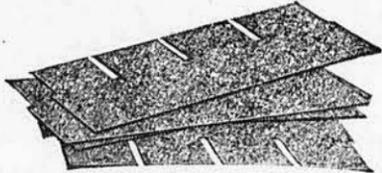


Everlastic Slate-Surfaced Roofing

A high-grade roll roofing, surfaced with genuine crushed slate, in two natural shades, red or green. Needs no painting. Handsome enough for a home, economical enough for a barn or garage. Combines real protection against fire with beauty. Nails and cement with each roll.

Everlastic Multi-Shingles (Four-Shingles-in-One)

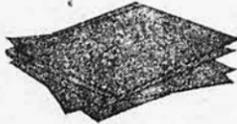
Made of high-grade thoroughly waterproofed felt and surfaced with crushed slate in beautiful natural slate colors, either red or green. Laid in strips of



four shingles in one at far less cost in labor and time than for wooden shingles. Give you a roof of artistic beauty worthy of the finest buildings, and one that resists fire and weather. Need no painting.

Everlastic Single Shingles

Made of the same durable slate-surfaced (red or green) material as the Multi-Shingles, but cut into individual shingles 8x12 3/4 inches. Laid like wooden shingles but cost less per year of service. Need no painting.



Two Ways to Know Good Roofing—

You can find all sorts of plain-surfaced "rubber" roofing on the market. Some are good, some fair, and some practically worthless. All look alike when new.

But you have two ways of telling whether roofing is good.

One way is to put it on your building and see how it wears. But that's *hindsight*—a costly method, if the roofing isn't good.

The second way is the simplest and the safest. *Be sure that the label bears the name "Barrett Everlastic."* That's *foresight*—proof-positive of a moderate-priced roofing, good for many years of satisfactory, economical service.

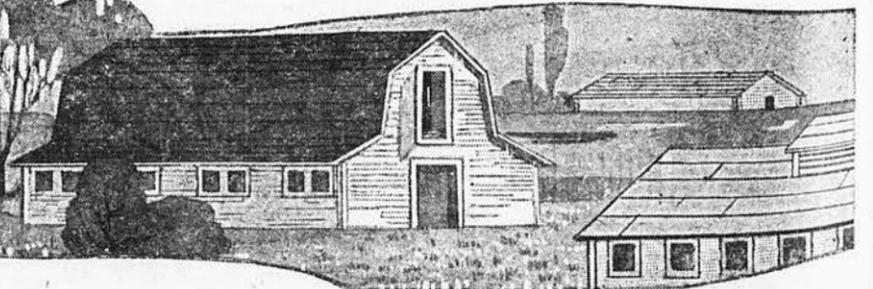
For behind every Barrett Everlastic roof stands the reputation for dependability cherished by The Barrett Company for over fifty years.

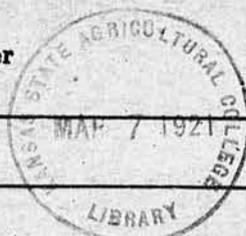
There's a style of Everlastic for each one of your farm buildings. Roll roofing, plain surfaced, or covered with red or green crushed slate. Shingles—single or in strips of four—and slate-surfaced in red or green.

Illustrated booklets describing each style free on request.

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Why Not Grow More Clover?

This Legume is Decidedly Profitable in Most of the Communities in Eastern Kansas; It Also is Helpful in Conserving Soil Fertility

By Ralph Kenney

THERE IS no crop that has been more valuable for Eastern Kansas farmers than the clover crop. Yet within the past 20 years clover has ceased to be known on a great deal of land that is yet planted to corn and all the labor of growing a crop performed on it just as if it were as good soil as when clover could be grown. There are many young men in Southeast Kansas who never have seen a crop of clover growing. Their fathers grew clover on the land the sons will inherit but they did not care to plan and work hard to keep up the land so that it would continue to grow good clover in the future.

A soil that will grow a crop of clover worth while is of fair fertility. It is not sour and lacking in lime. It is well drained. Given these conditions, clover is the corn farmers' best friend and cheapest hired man, for it is a legume. It produces a large root system which, on decaying renders sandy soils more compact and tight soils more porous. The failure of clovers to grow readily is, therefore, a more serious happening than many men consider it. There never can be found a cheaper way to enrich soils of medium fertility than the use of clovers or other legumes in a short rotation.

There is no truth in the statement that adverse weather conditions are responsible for clover failures in parts of Kansas where clover once flourished. Weather is merely the implement by which sickly, worthless stands are removed from fields that are not in condition to grow them. If clovers will not grow, other crops are correspondingly poor altho they may not be as readily killed as the legumes.

About one-third of the farmers in a corn-belt county represented in a recent survey conducted by the county agent, are unable to grow clover. Few grow as much as they are able to grow.

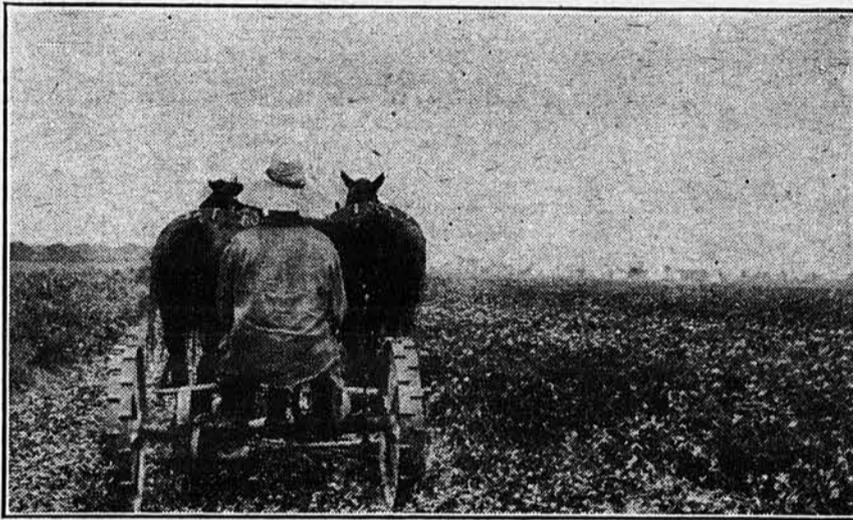
Lime Improves Sour Lands

The farmers unable to grow clover have been using a yearly average of 123 pounds of limestone and 170 pounds of manure an acre. Those growing clover to some extent have been applying yearly an average of 360 pounds of limestone and 3,000 pounds of manure an acre.

Sweet clover will grow and make a crop worth while on land that once grew Red or Alsike clover and that is now too poor to do so. It is the only crop besides soybeans that will build up gradually such depleted soils in Eastern Kansas to a stage where they will finally again grow Red or Alsike clovers. Even these two legumes will not do so unless provided with plenty of lime to help the job along. Alfalfa is not a notably profitable crop on soils that will not grow Red or Alsike clover. It is readily recognized that clover is a prime necessity to be used in a short rotation by the corn grower.

It is not overstating the facts to say that the growing of clover or other legume on one-fourth of the tillable land is absolutely essential in the permanent maintenance of the productivity of this state. Clover should not be looked upon as a cure for all the ills of the soil but as an important factor in soil renovation thru maintaining or increasing in the soil the supply of vegetable matter, and also the supply of nitrogen.

The clover plant has a heavy root system that leaves a large amount of vegetable matter in the soil when it dies or when it is plowed under. This increased supply of decaying vegetable matter in the soil makes the soil mellow and suitable for the best devel-



Cutting Red Clover—"It's High as the Mower Wheels. Sour, Grouchy Soil Must be Sweetened to Grow Such Crops."

opment of the roots of other plants; and renders it possible for a greater number of the lower forms of plant life, such as bacteria, yeasts and molds to live and work in the soil, bringing about beneficial changes. It increases the water holding capacity of the soil; and assists in keeping light soils from blowing and washing, and heavy soils from baking. Likewise it deepens the soil and aids in drainage. The deep roots penetrate the subsoil and break it up. This is one reason why soil that has produced clover often can be worked earlier in the spring than soil that has not produced this crop.

The clovers belong to the class of plants that have the power of acquiring the free nitrogen from the air with the aid of bacteria living in the nodules on their roots. Grass plants growing with clovers are able to use part of this nitrogen as it is acquired. The nodules are found on the tender roots. During the latter part of the season most of the nodules decay and the nitrogen in them becomes available as the plants die or they are plowed under. Practically all of the grain and cultivated crops grown in the state do not have the power of acquiring the nitrogen of the air for use in their growth. Their only source of supply

is the nitrates in the soil. Constantly draining on the soil nitrates without putting any back depletes the supply. A clover or other leguminous crop should be grown frequently on each field to aid in restoring nitrogen to the soil.

Results at the Minnesota Experiment station show that in continuous wheat farming the sowing of 6 pounds of clover seed every spring with the wheat and plowing under the clover in the fall, has given an average annual increase during a period of 15 years of nearly 2.6 bushels an acre. Still better results have been obtained where clover is used in four- or five-year rotations with grain, cultivated crops, and the use of farm manures. The growing of clover in the rotation increases not only the yield of grains but also their protein content, which gives them a higher milling and feeding value. It also aids in hastening the maturity of the following corn or kafir crop. On heavy soils clover should be grown in four- or five-year rotations, while on lighter soils and soils much in need of vegetable matter, it may be more beneficially grown in a rotation running thru three years.

Medium Red, Alsike, Mammoth and White clovers are successfully grown in Eastern Kansas. Medium Red is a

biennial and cannot be relied on to provide hay, pasture or seed after the second year. It is seeded with a grain crop in the spring, grows during that season and the second year produces one or two crops of hay or a crop of hay and a crop of seed. It has then completed its natural life and usually dies. Sometimes Medium Red clover continues in a field for several years. This is due in part to the germination of old seed which had lain dormant thru the previous season, and in part to the germination of new seed shattered out of the growing plants. Often many of the plants live for more than two years. The safest practice is to plow up Medium Red clover fields after the crops have been removed the second year or else depend upon some of the other clovers or grasses to make the crop in succeeding years. The Red clover plant is covered with fine hairs which make the hay dusty and not well suited to horses at heavy work or for use by driving horses. Medium Red clover is adapted to any well-drained soil in the eastern three tiers of counties in Kansas not subject to overflow.

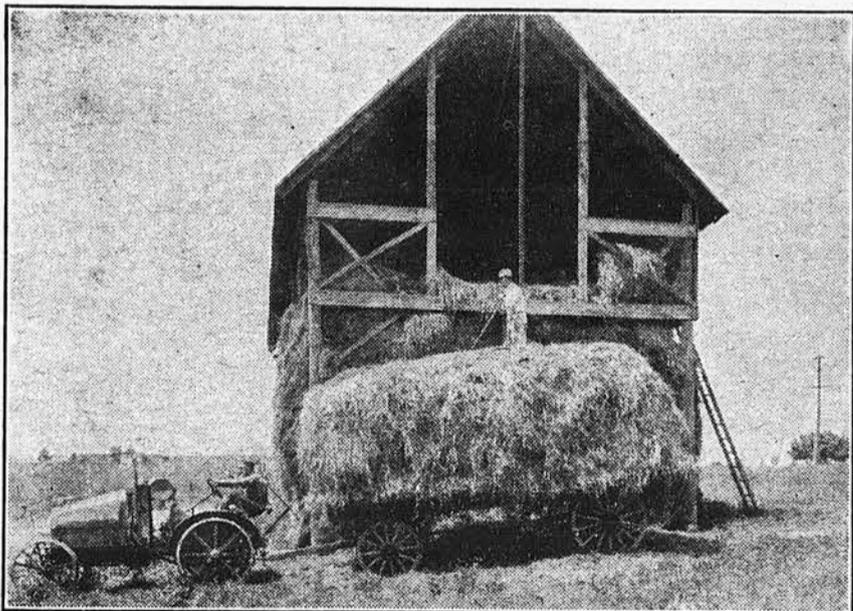
Mammoth Red clover, so called from its rank growth, has larger and coarser stems than the Medium Red or Alsike clover. The whole plant is coarse and hairy and does not make a hay of good quality. It is generally supposed to be a perennial while Medium Red clover is biennial but a large number of plants usually die after producing seed. It produces but one hay crop each season and that is ready to cut 10 days or two weeks later than Medium Red clover. It is adapted to about the same soil conditions as Medium Red clover but it is good practice to sow Mammoth Red clover in poorer soils, where it does not make so coarse or rank a growth and therefore produces hay of better quality. Mammoth Red clover is preferable to Medium Red clover when it is desired to increase the supply of vegetable matter in the soil as rapidly as possible.

Alsike Makes Valuable Forage

Alsike clover, sometimes designated as Swedish clover, is a perennial and continues to produce crops of hay or seed for several years. The plants of Alsike clover are not so coarse as those of Medium Red or Mammoth Red and when cut at the right time and properly cured makes a very palatable and nutritious hay. The stems and leaves of Alsike clover are without the covering of silky hairs and hay made from it is not dusty. Alsike clover mixed with timothy makes an excellent feed for horses. It makes an excellent pasture plant in mixtures. It produces, however, but one crop each year and there is not much aftermath. It can be grown on any soil on which Medium Red clover will thrive and succeeds on lands that are too wet for Medium Red clover. If it is desired to have a field in meadow or pasture for more than two years, it is advisable to sow 2 pounds of Alsike clover with the Medium Red and timothy to supplement the timothy in making the crop after the second year.

White clover, often called Dutch clover, is a perennial, the leafy stems lying prostrate on the ground. Roots are produced at the joints of the leafy stems, enabling the plant to spread quite extensively and form a compact sod. White clover is suitable for pasture mixtures where the field is to remain in pasture for several years, and also for lawn purposes.

In fact many lawns would be greatly improved by the addition of the White clover on account of its hardy character.



Haying in a Modern Way. Pulling the Wagon With an Engine and Placing the Hay Under Shelter, Where it is Well Protected.

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 \$1 an agate line. Circulation 110,000.
 Changes in advertisements or orders to discontinue advertisements must reach us not later than ten days in advance of the date of publication. 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 up to and including Saturday preceding issue.

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CHARLES E. SWEET, Advertising Manager

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 WE GUARANTEE that all display advertising in this issue is reliable, and should any subscriber suffer financial loss thru fraudulent dealing resulting from such advertising, we will make good such loss. We make this guaranty with the provisions that the transaction take place within one month from the date of this issue; that we are notified promptly, and that in writing the advertiser you state: "I saw your advertisement in Kansas Farmer and Mail and Breeze."

Passing Comment—By T. A. McNeal

IN A previous issue Charles Ferm of Lindsborg, Kan., gave his definition of individualism and Socialism. Two Socialist readers send me their definitions. The first is from H. L. Faris of Osage county who defines Socialism in the following way: "The ownership and operation by all of the people of all the machinery that produces wealth: the income to be divided among the people according to the amount and value of their services."

"In the past 25 years," continues Mr. Faris, "I have read many books on Socialism, heard a few lectures, read magazines and newspaper articles on the subject and, strange to say, never have heard anything that differed from the definition given. Now will Mr. Ferm give me a definition of Republicanism on which all Republicans will agree, and tell me the difference between a Republican and a Democrat?"

Mr. Faris gives his definition of individualism in the following way: "The ownership and operation by an individual of all of the machinery in the world which produces wealth, with all the other people in the world, working for him at such a wage as he sees fit to give."

Another subscriber, Perry Ault, of McCoy, Colo., also sends in his definition of individualism and Socialism which follows: "Individualism declares that all things should be owned individually. While Socialism contends that all things that are socially used should be socially owned and socially controlled, and all things that are individually used should be individually owned. Now to illustrate: Why should an individual wish to own a railway system or a factory or the city water works? Simply for the profits he would derive from such ownership. Now since the public has to pay these profits, we Socialists declare that the public should own these institutions so we could avoid paying these profits.

Under individualism, or the present system, a man is compelled to pay at least four profits, before he is permitted to own his shirt. He pays a profit to the manufacturer and a profit to the wholesaler and also a profit to the railroad and a profit to the retailer. A capitalist is one who has capital enough to live entirely from rent, interest, or profits. He is sometimes called a parasite. A patriot is one who will not work a graft on his Government or permit anyone else to do so if it is in his power to prevent such a thing."

Best Use for Public Money

ONE would scarcely expect that one of the most powerful arguments so far advanced in favor of a world wide truce in armament, would be advanced by the inventor of one of the most powerful and destructive guns ever manufactured.

Hudson Maxim, inventor of the Maxim gun, has figured out what might be done with the billion dollars saved annually to the taxpayers of the United States by the adoption of a five-year truce in National armament. In other words Mr. Maxim estimates that we would be saved that much every year by such a truce and then suggests what we could do with it.

With the first billion we could build 25,000 miles of concrete roads 20 feet wide; that would mean if they were transcontinental roads, five great concrete highways reaching from ocean to ocean and six roads running from north to south from the Canadian border to the Gulf of Mexico and the Mexican border. He estimates the cost of these roads at \$40,000 a mile.

With the second billion dollars saved he estimates that we could construct an inter-coastal ship and barge canal running from Boston to Florida. This would use up about one-half of the billion dollars. With the other half billion we could dredge, deepen and straighten the Mississippi River from St. Louis to the mouth and the Missouri River from its junction with the Mississippi to Kansas City, so that ocean liners could come up to the very heart of the continent.

With the third billion saved he suggests that a great electric super-power system could be established by which millions of horse power could be developed to be used in cheapening transportation and production generally. At present the railroads of the country are compelled to devote about 40 per cent of their carrying capacity to hauling coal to supply their own power. By the system of electrification proposed it is estimated that half of this coal could be saved and at the same time the railroads would be relieved of the necessity of hauling it about.

With the fourth billion saved he proposes the canalization of the Saint Lawrence River from Lake Ontario to Montreal, or further if necessary, so as to permit the passage of ocean steamers up to Lake Ontario and thence thru the Great Lakes to Cleveland, Detroit, Chicago and Duluth.

The fifth billion saved he proposes to devote to the reclamation of desert lands and cut-over lands. He estimates that 6 million acres could be reclaimed with this billion and turned into productive farms capable of supporting in comfort 150,000 families or, perhaps, a million persons.

This he estimates would be the result of five years' savings. But if it is possible to put a truce into operation for five years it is just as possible to put world-wide disarmament into operation and that would mean to the United States a saving of nearer 2 billion a year than 1 billion and of course twice the accomplishment he pictures.

Building Government Roads

A FRIEND of mine, George Keys of Oberlin, Kan., writes: "I wish to extend to you my hearty commendation for your advocacy of the building of public roads by the state and Nation. In addition to putting down the profiteering prices under which we are still staggering, it will relieve the glut of the labor market and give relief to the millions who now have families dependent on them, with no way of providing for such families."

"I remember that some years ago the Government desired to construct a great irrigating dam somewhere in the West. The contractors made such high bids that even the Government was staggered and the Secretary of the Interior, or someone in charge was honest enough to seek to avoid the payment of the high prices for cement and other material and for labor. Government chemists and geologists were sent into the mountains where they found abundant material out of which to manufacture cement. Men were sent to work; cement was made and millions of dollars saved.

"Who are now howling about Socialism? The profiteers. Who are opposing disarmament? The Army contractors, ship builders and powder manufacturers and all those who profit or hope to profit out of war. It is strange that the people cannot read between the lines and see where their real interests lie."

If half of the money that has been wasted on wars and preparation for wars had been expended on road building and other public improvements the country would be covered with a network of the best roads in the world and there would be no occasion for any able-bodied man being idle.

What is Worth While?

THE following letter has just come to me from a Colorado subscriber of the Kansas Farmer and Mail and Breeze:

I notice in your answer to the Missourian concerning inequality of rewards, you state that the farmer has probably received a great deal more of what is really worth while than the other fellow. Now as I am a farmer, I would like to know what is really worth while. Perhaps I have got great gobs of it scattered over my yard. Will they accept it at the banks, or do you trade it at the grocery, or do you pass it off on the fool hired man?

Now since you are the editor of a great and good farm paper that is printed for the good of the farmer will you please answer this in your next issue of the Kansas Farmer and Mail and Breeze, as no doubt you are aware that most of us farmers need all the assistance you can give us?
 McCoy, Colo. PERRY AULT.

It occurs to me, Perry, that there are a great many things that are worth while which would not be taken as collateral at the banks and which could not be traded for groceries. These things which are worth while are intangible and cannot be measured by sordid dollars or by so many pounds of sugar or meal or so many yards of dry goods.

I do not know of course, Perry, whether you have "great gobs" of these things that are worth while about your premises, but if you have not then you never have experienced the best there is in life and no matter how much worldly property you may possess you are a poor man.

When you have gone out of your way to help a fellow man in trouble and without any thought of financial reward, you did something that was really worth while and I imagine that the consciousness of having done that unselfish act has given you more genuine satisfaction than any successful financial deal you ever made.

No doubt you have read this story:
 A certain man went down from Jerusalem to

Jericho and fell among thieves which stripped him of his raiment and wounded him and departed leaving him half dead.

And by chance there came down a certain priest that way and when he saw him he passed by on the other side. And likewise a Levite, when he was at the place, came and looked on him and passed by on the other side. But a certain Samaritan as he journeyed, came where he was and when he saw him he had compassion on him and went to him and bound up his wounds, pouring on oil and wine, and set him on his own beast and brought him to an inn and took care of him.

And on the morrow when he departed, he took out 2 pence and gave them to the host and said unto him "Take care of him and whatsoever thou spendest more when I come again I will repay thee."

The Samaritan proved himself a man in the highest sense of the word. He had not asked whether the wounded and almost dying man could ever pay him back; all he knew was that here was a fellow man in sore trouble, wounded, robbed of all his money and helpless and he went out of his way to help him. He did something worth while, and the satisfaction was worth more to him than money.

The Missouri farmer mentioned in my former editorial was, I take it, a good citizen. He had the satisfaction of knowing that his business never had ruined anybody, but on the other hand had helped to feed and bless mankind. He could not cash that satisfaction at the bank or pass it on, perhaps, to the "fool hired man" but I do not believe he would have traded it for a fortune. I have not the space, Perry, to go into details but when you come to think it over I believe that you will concede that there are a great many things that are worth while that cannot be traded for groceries or used as collateral at a bank. If you do not have them then I pity you.

Old Time Independent Farmer

IHAVE just received a remarkably well woven basket, made of ash-splits and woven by Joseph Stenger, of Wayne, Kan. This basket is not only a handsome and substantial one, but it is interesting because it shows the resourcefulness of the pioneer farmer.

Joseph Stenger was born of German parentage near Ft. Madison, Ia., long enough before the Civil War so that he was old enough to become a soldier. After serving his enlistment in the United States Army he came back to Iowa but in the year 1870 moved to Kansas and settled in Republic county.

He describes himself as a jack of all trades, but instead of being master of none he seems to have been master of all of them. He was a blacksmith and set up a shop on his farm and for years did general blacksmithing. No one I think ever accused him of being a poor workman. He not only did general blacksmithing but made wagons, both heavy farm wagons, and spring wagons, even making the spokes, felloes and hubs from native timber. He made his own lathes and on these and with his drawing knife and shaving horse he turned out the wooden parts of the wagons. He was also a stone mason and a good carpenter and with his own hands dug the stone out of which his residence was built and as a carpenter did all the wood work of the same.

His sons, it may be said, helped him quarry the rock for his house and, perhaps, helped him some on the carpentering. The only part of the house that was not built with his hands and the help of his boys were the chimneys. Another trade of his was basket weaving and now that he has grown old, for a pastime he has again taken up this weaving business. I do not know how long it takes Mr. Stenger to weave such a basket as he sends me, but I do know that no such basket can be bought in the city of Topeka.

Now all of this seems to me to be interesting; the fact that one man was able to master so many different kinds of trades is interesting; but it also illustrates the independence and self reliance of the pioneer farmers. For a man like Joseph Stenger the condition of the markets was of interest of course, but not of vital importance. He was independent of markets and trusts and combines and labor unions. He could raise on his farm practically all he needed to eat or wear. He could make his own conveyance, build his own house and weave the baskets necessary to carry what he raised from place to place on the farm. I will venture the assertion that he never worried a great deal about prices of farm products because he was independent of outside markets.

There are times when I wonder whether we have really made ourselves any happier or more con-

fortable by modern inventions. True we never can go back to the old ways. The old time wagon made by the skilled blacksmith like Joseph Stenger never will come again. The old tallow candle never again will be relied on for lighting. The old time independence is gone and cannot be recalled, but while we seem to enjoy a lot of things our fathers and mothers did not have, we also have lost some things that they had which were worth while.

Hey There, Mark!!

SO MANY letters have been received by me recently from persons who think they understand prophecies of Daniel and others, all substantially agreeing that a general smash-up in the world is near at hand, that I have been somewhat worried over the outlook. For instance, there is Mark Zimmerman of Doniphan county, who has figured that the crisis will come, perhaps, in 1923. Recently I received a communication from another subscriber who is satisfied that the wind-up of the present order will come in 1925. And now John H. Cox, mayor of the city of Hoyt who quotes the Bible to prove that the 2,300 days mentioned by Daniel mean 2,300 years and that they began to run in 70 A. D. This, according to Mr. Cox, means that the period of 2,300 years will last for more than 300 years yet. Until these interpreters of prophecy get together and substantially agree on dates, I have decided that I will not worry any more about the matter. There are a great many things that concern the immediate present which are calculated to trouble without worrying about what Daniel or any other of the prophets meant.

Why I Apologize

IT IS the custom of the subscription department of this paper when a subscriber fails to renew his subscription at its expiration, to write him a cheerful and really a heart-to-heart letter, urging him to renew. This is done not because there is a profit in subscriptions, for there is not. If a paper like the Kansas Farmer and Mail and Breeze had to depend on the money received from subscriptions it would have been dead long ago, but just the same the subscriber is worth a good deal to the paper and we don't wish to lose him. One of these heart-to-heart letters was sent to a subscriber in Marshall county, to which the following reply was received:

I shall comply with your request when Sir Thomas McNeal publicly offers an apology to the Friends of Irish Freedom for his religious prejudices against Ireland's just cause. Also I refer you to my recent letter to you, acknowledged by your secretary but its contents not answered.

Maryville, Kan. MIKE O'TOOLE.

I do not know in what way I have given offense to the friends of Irish Freedom, or how I have shown any religious prejudice against the "just cause of Ireland" but I do not wish to be the cause of the loss of a subscriber to the delightful name of Mike O'Toole. I know that a man by that name can have no religious prejudices and when he calls on me to apologize I just apologize on general principles.

Questions and Answers

READERS of the Kansas Farmer and Mail and Breeze who desire to have legal advice or who wish to make inquiries on general matters may receive whatever service we can render in this way free of charge, but the limited size of our paper at present will not make it possible to publish all of the replies.

Will you give me the address of the attorney who attends to life insurance in behalf of citizens of the state? I understand there is one whose business it is to see to all disputes, and I have one that I want investigated.

W. J. H.

You should write the Superintendent of Insurance, Topeka, Kan., making full statement of your complaint.

My father willed me a Kansas farm before his death. I have sold this Kansas farm and bought one in Colorado. The title is in my name, in fact everything including livestock has been bought with my money that I received from my parents. If I should die before my husband without a will could my three children get my property? What part would my husband get? If he should marry again could the second wife take the property from my children? Would it be best to make a will?

J. D.

Under the laws of Colorado, if you died without will and your husband survives you, he will take one-half of the estate and your children will take the other half. It may be best for you to make a will, altho if this is the way you desire your property to be distributed it will make no particular difference. If your husband marries again his wife cannot take any part in the estate that descends to your children. If she survives her husband she will take one-half of any estate he may die possessed of.

We live in the country. My husband does not believe in Sunday school and church and does all he can to keep the children and myself from going. Is it right that I should always stay at home because he will not go, and have I the right to take the car or team and go?

A. L. M.

Your husband is certainly very unreasonable if he undertakes to prevent you from going to church or Sunday school, if you so desire. I presume the title to the car is in him and if he insists on being mean about it, he probably can forbid you the right to take it and drive it, but if he does that

simply for the purpose of keeping you from attending your church, in my opinion you will be entirely justified in leaving him.

1. A and B are husband and wife; C and D are sons. B dies leaving no will. Can C and D get half the property?

2. A promised 110 acres of growing wheat to C and D if they would stay with him, C left. Can C get one-half of that growing wheat?

B. B.

1. Assuming that A is the husband and B is the wife, unless the property was held jointly, or unless B owned a part of the estate in her own name, C and D would not inherit anything until the death of their father.

2. If C failed to fulfill his part of the contract with his father, A, he could not hold his father to his part of the contract.

If township board should divide 80 rods of fence and award to one 40 rods and a water gap which would cost as much to put in as it would to build 80 rods of fence, and it can be proved that one of the fence viewers was crooked and the other an interested heir would such an award stand in law?

N. S.

No. The aggrieved party would have to bring an action in the district court to set aside the award of the fence viewers on the ground that it was fraudulent.

If a man is elected trustee of the township in November and moves his family out of the township, but still has an interest in his farm and leaves a hired man to do the chores, has he a right to take the office or should he appoint another?

I. C.

Section 11,551, Chapter 117, General Statutes, speaking of persons elected to the office of trustee, clerk, treasurer, justice of the peace, or constable in any township, says: "In case any such officers shall become non-residents of their respective township or road district, their offices shall at once become vacant."

The vacancy must be filled by the county commissioners.

1. Is there a law in Kansas prohibiting the capture of wild water-fowl for propagating purposes?

2. Is it against the law to possess wild water-fowls such as wild mallards and geese without a permit?

3. Where can I get a permit and what is the charge?

B. J.

It would not be unlawful to trap wild birds between September 1 and April 15 for any purpose and it would not be unlawful to capture these wild water-fowls for propagating purposes.

Section 4946 General Statutes provides that the state fish and game warden shall issue permits to any person to take, capture, kill or transport any game birds or birds mentioned in this act at any time, when such birds are raised or propagated in captivity by such person, when satisfied such persons desire same exclusively for scientific or for propagating purposes. Persons to whom such permits shall be issued shall give bond amounting to \$1,000 that all shipments made under said permit shall be in accordance with said provisions of this act; said bond shall be filed and approved by the county clerk. No license fee outside of the regular license fee of \$1 seems to be provided for by the law.

For any further information, address Fish and Game Warden, Pratt, Kan.

Would you please tell me a reliable place to sell a diamond ring?

M. S.

Almost any jewelry establishment will purchase diamond rings, but probably will not be willing to pay a fair price for them.

I would suggest that you take this matter up with your local jeweler and have him sell the ring for you on some sort of a commission basis.

No More Gun Money For Europe

THE increase of 1/2 billion dollars a year to our interest-bearing debt thru the failure of foreign governments to pay the interest of the 10 billion dollars we lent them during the war, a matter to which I recently made reference in these columns, has brought me a number of letters. These letters show the people of the United States are not blind to what is going on, or to what a complete cancellation of the entire 10 billions of Europe's war debt to us would mean if carried out along the lines that Great Britain recently has so strongly urged.

To get this 10 billion Uncle Sam sold Liberty bonds and War Savings stamps on which he is paying interest right along. Europe defaults on its interest, but Uncle Sam doesn't do business that way. So he has had to shoulder the cost of carrying this huge loan added to the burden of his own war debt. This he does by assessing the American taxpayer for Europe's defaulted interest at the rate of 1/2 billion dollars a year.

Europe, which has nearly bankrupted itself by secret diplomacy, exclusive self-interest and the game of international grab and plunder, now proposes that the United States assume the whole debt.

While it is true we did not get into Europe's quarrel early, that we only got in in fact to save Europe and ourselves from the curse brought on the world by Europe's diplomacy and militarism,

this country in the 17 months it was at war spent nearly as many billions as Great Britain expended in four years. But none of the spoils of war have come our way, nor are they expected to. Great Britain gets rich German territory in Africa and the oil of Mesopotamia, while France and Italy have each taken over a colonial empire.

In the meantime we have backed up our 10 billion cash loan to Europe with other billions public and private. We are carrying about 4 billions of unpaid balances on exports made during 1919 and 1920, and our private investors hold something more than 2 billion dollars of European securities.

I am for no more contributions or concessions to European governments. Italy, which owes this Nation 1 1/2 billion dollars on which the interest is piling up, is maintaining the biggest regular army and reserve in the world, and is spending on them this year 1,812,000,000 lire, about 660 million dollars at the present rate of exchange.

If we should cancel Europe's 10 billion debt to us it will mean Europe will have just 10 billion more for armament. We shall then be doing just as much to endanger world peace as we thought we were doing to end war when the American Nation went into debt to subscribe these billions.

Writing me from Atchison, Kan., C. W. Hayes says:

Congratulate you on your stand against extending those foreign loans. I notice England's Parliament passed the Compensation act to compensate unemployed ex-soldiers at our expense. Let us compensate our own boys first. Keep the good work up. Let us get our money from all countries as soon as possible and then they can't join Japan and help her fight us with our own money.

I don't share Mr. Hayes's apprehension about Japan, but I think he is right on the main idea.

From his bed in a famous Minnesota hospital, J. J. Cromwell, a Western business man, writes me:

You have stated a proposition that appeals to me. The object of this note is to urge and encourage you to prevent such an arrangement with England. I approve your position to require England to pay its interest and debts, so we shall not have them to pay in the form of taxes.

This letter comes from Ernest Steves, San Antonio, Tex.:

I have read with deep interest your article in regard to the relative financial relations between the United States and England and heartily commend your position. England has already received the largest part of "the spoils of war" and is even now doing her utmost to outdo our industrial and commercial houses in the competition for world commerce, to accomplish which she is using the financial resources of the United States. To propose to cancel the debt of England to us is next to traitorous. The support of the people of the country will be with you. The public is beginning to feel it is being wronged thru being longer compelled to pay enormous taxes for the benefit of foreign governments.

Mr. Steves's letter shows he has interpreted the gist of the fragmentary news reports correctly and understands the situation.

Put the case this way: Suppose your neighbor's house took fire. Then supposing after you and the members of your family had assisted him to save some of his furniture and to put out the flames, and had lent him money for his present needs, that he should ask, if not demand, that you make good to him a large part of his losses! What would you think of his nerve?

The hypothetical case of this citizen and his neighbor is by no means a far-fetched parallel to that of Uncle Sam and his European neighbors who now are pressing the proposal that he cancel the billions borrowed from the American Nation and lent to these neighbors, on which he is now levying taxes on American citizens to pay the interest.

This war which Europe permitted to happen, and from which we rescued it without hope or desire of financial gain or territorial reward, already has taken half of everything that any American citizen—the innocent bystander in the controversy—possessed in valuables and property at the time it broke out. It has doubled, tripled, quadrupled or quintupled the price of everything he has bought for the last 3 years. It has mortgaged his industry and his country. It has taxed American homes with a war debt of 30 billions which those who live in these homes will still be paying long after half of the American people now living have gone to their graves.

With no more selfish purpose than actuated the man who helped his neighbor save his burning house, this country created an army of 4 million men, landed half of them in Europe, spent billions of dollars to make this force effective, lent the allies 10 billions more for their own use, then turned their defeat into victory and ended the war one year sooner than any European strategist said it could possibly be ended. And yet the political rulers of these people who found in us a friend, indeed, in their hour of despair, after appropriating to themselves the spoils of war and Germany's due bills for billions of indemnity, would now ask us to forget we lent them anything and make American citizens the victims of a straight-out 10-billion donation to Europe with interest.

We apparently have been such easy-going folk that Europe has come to think it can hold us up whenever it gets a chance or can find a pretext.

The problem of further financing Europe's needs is a trade matter. For the rest—the world, and especially our part of it, must rededicate itself to thrift and industry. That is the only cure for the sickness brought upon it by war lords and militarism.

Arthur Capper, Washington, D. C.

Bought First Holstein in Holly

And Now Joe Boetto's Dairy Herd Which is Clear of Debt, Yields Him an Average Income of \$600 a Month Thru the Year

By Ray Yarnell

ON A FARM over in Italy, Joe Boetto was born. As a youngster he helped feed Swiss cows and when he was a little older he assisted his father at milking time and learned how to take care of the milk.

Then America beckoned to young Boetto and he made the long trip overseas. He went West and finally reached Holly, Colo. The farm called him because he liked that work and he hoped to get dairy cows. But there were few dairy cows in the community then and Boetto had about decided to go on to Canada.

W. S. Partridge, manager of the Arkansas Valley Sugar Beet and Irrigated Land Company, knew Boetto. One day he met him on the street.

"Joe," he said, "Why don't you go into the dairy business here?"

"I haven't the money," replied Joe.

"I can't buy a cow."

"I'll stake you and get you on a farm," said Partridge, "and you can pay me back as you get the money."

Begins With One Cow

Boetto accepted. He bought the first Holstein cow sold in Holly. That was years ago. Now he owns 76 dairy cows and with the exception of one payment his farm is clear.

With the backing supplied by Partridge, the young Italian bought four Holsteins and a team. He rented a small farm. He had no money, but he did have real faith in dairy cows.

"A cow must produce from 6,000 to 8,000 pounds of milk a year to stay in my herd," said Boetto. "I won't have a boarder and I check them regularly. I am a member of a testing association and I couldn't afford not to belong to it. So my cows are all good ones. I know they are good."

"My cows have always made me money. I think it would pay every farmer to keep dairy cows. They are nice to work with and there is more profit in feeding them than in selling the feed. A lot of the money I have

made has come from my cows. But they are good cows. A farmer should be sure he gets good cows. Otherwise he will lose.

"Last spring I milked 29 cows and for the first six months of this year my milk check averaged \$600. My dairy cows will yield \$5,000 this year. Then I have the calves and they are worth lots of money. I get the manure, too, to put back on the land. So you see the cows make more than \$5,000.

"I learned dairying in Italy. There we had Swiss cattle. But I like Holsteins better."

Gradually Boetto's good grade herd is being put on a purebred basis. He owns a good purebred bull and three purebred cows. These are his delight. Now that he has his place practically paid for Boetto hopes gradually to purchase more purebred cows and sell some of his grades. Eventually he plans to have a herd composed entirely

of purebred cows of high quality because he says they will yield a much larger profit for the same amount of feed and work.

One of Boetto's cows has a 60-pound mark and he is proud of her. His cows are his pets and their attitude toward him shows they receive kind treatment. In addition to the 76 cows, Boetto has this year's calf crop still on his place.

On this farm good dairy equipment has been provided. The silo, with a capacity of 175 tons, is the axis around which the equipment is grouped. The commodious feedlots, well equipped with bunkers, extend to the east of the silo and on the west is the large dairy barn with a capacity of 38 cows. Just a few steps from this is the milk house. This is equipped with a milk cooler and a water tank in which the milk cans are kept. It is cemented and kept clean. Water for the tank and the cooler is supplied by a gaso-

line engine. The engine also supplies power to operate a milking machine, one double unit, which milks 22 cows an hour without the least difficulty.

The dairy barn has a cement floor and cement bunkers in which silage is fed. Hay also is fed in these bunkers when the cows are kept in the barn on very cold days. The hay for this special feeding is kept in a tightly floored loft.

At the east end of the barn, connecting with the silo, is a small shed with a grain bin on either side. Thru the center runs an alley, extending from the silo to the end of the feed bunker. Silage is carried thru this to the cows. Ground grain is kept in the bins.

Comfortable Quarters are Provided

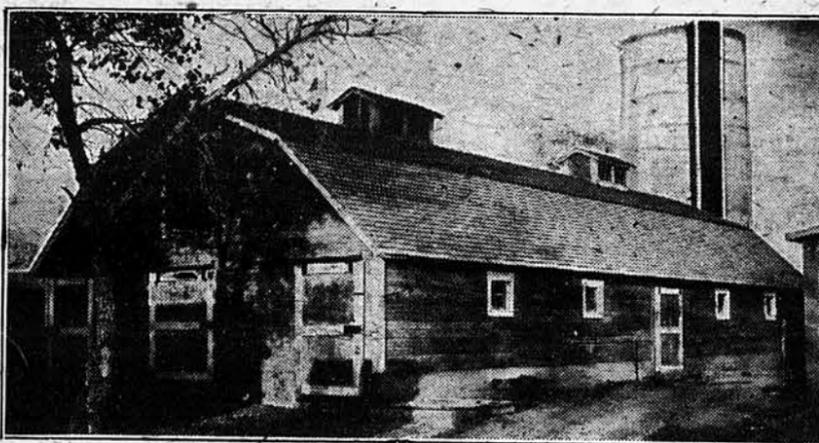
The arrangements are so convenient that on cold, stormy days Boetto can feed all the cows in his barn without going outside. In this way he protects them from the cold and there are no drafts caused by opening and shutting doors to bring in feed. Besides, Boetto finds it more pleasant to work inside on cold winter days.

All grain fed to the cows is ground. Boetto has a grinder which is operated by a gasoline engine and this saves him the expense of taking the grain to the mill. When ground, he has a good place to store it.

The cows are given from 25 to 30 pounds of silage a day. When they are put on green alfalfa pasture the amount of the silage is reduced. In addition they receive a mixed grain ration, consisting of half corn and half oats, fed in the proportion of 1 pound of grain to every 5 pounds of milk produced.

Boetto feeds all the alfalfa his cows will eat. He keeps it in bunkers along the sides of the yards. Only the best of the alfalfa on the place is fed, the poorer portion being sold. When the bunkers are full of fresh hay, Boetto turns his milking herd in the lot and

(Continued on Page 8.)



The Dairy Barn on Joe Boetto's Farm Near Holly, Colo., is Well Equipped for Efficient Work. It Has Stall Room for 38 Cows.

Giving Calves a Chance

Good Care and a Proper Consideration of the Essential Feeds Will Aid Greatly in Developing Beef Animals on a Profitable Basis

By E. W. Sheets

MOST CALF ailments are due to improper feeding or unsanitary conditions, or both.

Keep the calf out of cold rains in winter as much as possible, and provide a dry, well-bedded stall at night. Provide Nature's tonics—exercise, sunshine, pure air, abundance of fresh water and a variety of feeds, and there will be little need for medical attention. It is not for the purpose of curing diseases that these suggestions are offered, but to prevent their occurrence. Observe the calf closely at all times. If it should appear drowsy, feverish, stiff, or sluggish, act quickly. Reduce feed at once and the disorder may be in a large measure prevented. Keep salt before the calf at all times. Some of the commoner ailments only are briefly discussed here, with a few suggestions for first-aid treatment. In case of serious illness consult a competent veterinarian at once. Do not delay.

Occasionally when the newborn calf fails to get the colostrum or first milk from the cow its bowels remain inactive, and the meconium, first droppings, are retained, which causes constipation. An enema or injection of 1 quart of warm water in which 1 teaspoon of common baking soda or ½ teaspoon of common salt has been dissolved will usually give relief. Use a syringe or allow the solution to gravitate thru a small rubber hose or funnel. Two tablespoons of castor oil may be given, and repeated when necessary.

The solid droppings of an older calf should be observed daily. If they ap-

pear extremely solid, the animal is constipated or feverish. With older calves this condition may be relieved in most cases by promptly providing plenty of water, by reducing the grain and dry roughage and substituting a more laxative ration. A small quantity of linseed oilmeal, wheat bran, and legume hay, such as alfalfa, soybean, or lespedeza, may be used. If this does not relieve the condition, give cas-

tor oil or raw linseed oil, ¼ pint or epsom salts in doses according to the age of calf, altho dosing should be avoided as much as possible.

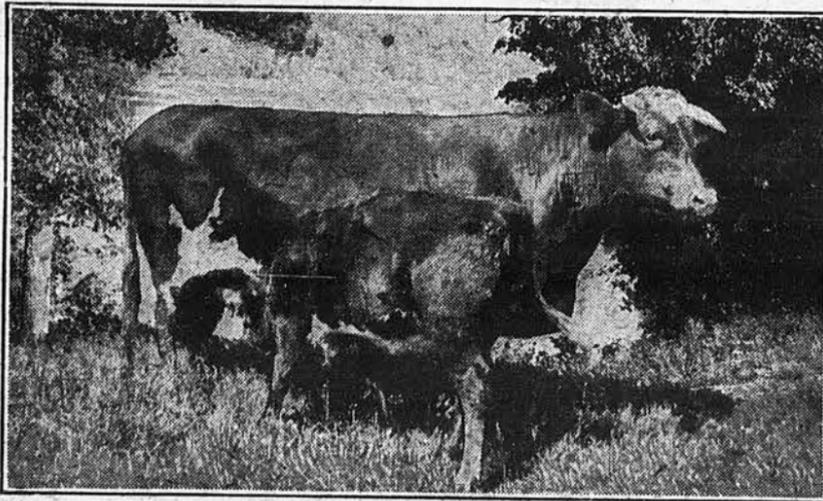
If constipation is not relieved diarrhea or scours may follow. This ailment is indicated by thin, watery, offensive droppings. It is usually the result of improper feeding, irregular suckling, or overfeeding with anything that overloads the stomach. Damaged

grain fed to the calf, or even to the cow before the calf is weaned, may cause digestive disorders. Exposure or overheating may also be a predisposing cause. Silage, alfalfa hay, and possibly linseed oilmeal, when fed in large quantities to older calves for a long period, may cause this condition, which should be corrected by an immediate reduction of such feeds and the substitution of dry grass hays and a little cottonseed meal for a part of the ration. If such conditions occur with a calf not yet weaned, reduce the milk allowance and withhold all grain. In severe cases withhold all feed for 12 hours. As a last resort put the cow on dry feed entirely and let the calf suck another cow.

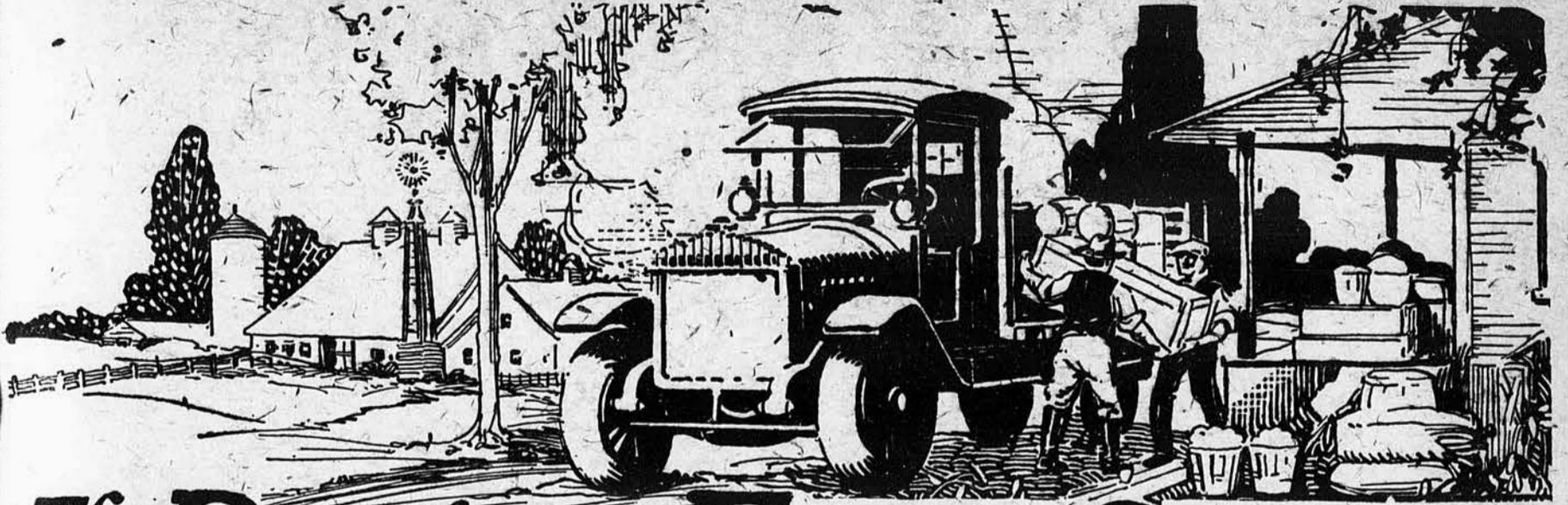
Remedies easily obtained for the calf are castor oil, 1 tablespoon to ¼ pint, depending upon the size of the calf, given as a drench with warm, sweet milk, followed by 1 teaspoon of a mixture of 1 part salol and 2 parts subnitrate of bismuth. Another remedy used with success is 4 drops of formalin to 1 quart of warm milk. Commonly used home remedies include whites of two raw eggs or a weak solution of limewater given in 1 or 2 tablespoon doses. Feed and manage the calf so as to prevent diarrhea or scours. Such disorders stop the growth of the calf for several days at least and make it more susceptible to them later.

Blackleg is an infectious disease associated with external swelling, usually about the fore legs or shoulders.

(Continued on Page 9.)



Care is Necessary in Feeding the Beef Calves if They are to Develop Into Profitable Animals and Reach a Normal, Healthy Maturity.



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State Farm Bureau Items

Contributed by County Agents

NINE Franklin county farmers have set out acre orchards and F. J. Robbins, county agent, is asking other farmers in the county, who wish such an orchard, to get in touch with the Farm Bureau office at once in order to get the trees desired. Kansas State Agricultural college, Mr. Robbins says, will co-operate in setting out the orchard and help to care for it until the owner has learned to prune, spray, and recognize diseases. The leading nursery companies will co-operate by providing the trees at special prices. Those who have set out their orchards to date are: A. S. Allen, R. W. Cash, and E. W. Smay of Harrison township; H. E. Gillett, Ottawa township; V. Greenwalt, Ohio township; Oscar Branham, Williamsburg township; D. M. Keas, Homewood township; H. E. Peckham, Peoria township; and J. E. Seymour, Culter township.

To Organize Co-operative Elevators

Kansas State Farm Bureau is ready to help any community in Kansas to organize co-operative grain elevators to fit into the plan outlined by the "Committee of Seventeen," according to Charles R. Weeks, secretary. In the program of work outlined for the coming year, special attention will be given to the promotion of co-operative enterprises. Mr. Weeks says that the Farm Bureau desires to co-operate with the Farmers' Union, the Grange, and all other co-operatives now in the field, in making Kansas one of the best organized states in the Union.

Montgomery Shorthorn Breeders Meet

The Shorthorn cattle breeders of Montgomery county recently held an all day meeting in the rest-room of the city hall at Independence, according to Hayes M. Coe, county agent. The breeders brought their wives along and the group had a basket dinner. After dinner the ladies did their shopping and afterwards found comfortable rockers and visited while the men held a business meeting. It was decided to hold the annual spring sale April 1. G. A. Laude of Humboldt was selected as manager. It was decided to limit the sale expense to \$10 a head. Another important thing was the decision to give a purebred Shorthorn bull to the team that ranks first in the judging contest, to be held in the forenoon of the day of the sale. A committee was appointed to pick out a good bull from the consignments for this purpose. The contest will be conducted as others have been in the county. No boy or girl who has previously competed in a high school contest will be eligible. In addition, the judging will be limited to farm boys and girls.

Jewell Fights Chinch Bugs

The Jewell County Farm Bureau will make things hard for the chinch bug and the pocket gopher during the coming year, if a meeting held at Jewell City recently is any indication. W. W. Houghton, county agent, was called to this community to discuss insect and rodent control, and was greeted by a group of enthusiastic farmers. At the close of the discussion, Mr. Houghton says it developed that the only way to get results was

thru co-operative organization. Thereupon, the farmers present decided to organize at once and appoint committees on the various projects of work. F. C. Kent was chosen as chairman; W. E. Smith as vice-chairman; and Lloyd Musser as secretary.

Success With Soybeans

Farmers in Bourbon county are having success with soybeans. Avery C. Maloney, county agent, reports that E. E. Elder of Redfield, saved 75 bushels of seed from 3 acres. Mr. Elder says he would have had 90 bushels of seed if he had been able to care for it properly. Mr. Elder thinks soybeans are more easily handled than corn. John Garrett of Garland, raised 30 acres of soybeans and used them for seed. He says they are good to make dairy cows produce milk and saved him buying some high-priced cottonseed meal.

New Farm Agent for Ness

The new county agent in Ness county, J. M. Dorrill, is hitting his stride. Mr. Dorrill recently met with the wheat growers' association at Beeler and put the community organization plan of the Farm Bureau before them. A tentative program of work was outlined and a chairman for every project was chosen. H. L. Whipple was selected as chairman of the wheat project, and John McKelvy, chairman of the livestock project. At the next meeting ladies will be invited to outline some projects for their work. These projects probably will be poultry, and home improvement, Mr. Dorrill says.

Osage Shorthorn Sale

The Shorthorn breeders of Osage county have made arrangements for an association sale about April 15, according to H. S. Wise, county agent. The Osage County Shorthorn Breeders' association was one of the first in Kansas organized by the breeders of the county with the assistance of the County Farm Bureau.

Treating Oats for Smut

Most of the county agents in Kansas are now putting on campaigns to get farmers to treat seed oats for smut. Treatment is 100 per cent effective, according to F. S. Turner, Anderson county agent, who says the cost of the treatment is only 2 cents a bushel. Mr. Turner is offering to send directions for treatment to any farmer or to hold a demonstration in any community in the county.

Bourbon Holstein Breeders

At a meeting of the Holstein breeders of Bourbon county on the forenoon of February 4, a committee, consisting of Earl Williams of Hiattville, Ralph Dawson of Fulton, and H. L. O'Bryan of Fort Scott, was appointed to attempt the organization of a Holstein consignment sale, to be held during the latter part of April or the first part

of May, according to Avery C. Maloney, county agent. This committee states that the sale is open to every man in the community who wishes to put in some good Holstein cattle. The sale is not only to give farmers who have some Holsteins to sell an opportunity to dispose of their animals at the best advantage, but is an attempt on the part of the Holstein breeders to build up and create local interest in the breed.

Osage Holstein Breeders Organize

At the call of H. S. Wise, county agent of Osage county, the Holstein-Friesian breeders of that county met at the court house at Lyndon recently and organized a county Holstein-Friesian association. C. R. Gearhart,

More Humor From Parsons

Harvey Parsons, creator of the Hi Hoover cartoons, has written a book, entitled *By the Way*. It consists of 95 pages of real humor, written by Parsons, from his fund of knowledge of Kansas life, and illustrated by many drawings, of a quality which only Parsons can produce. If you have a copy of this book you are certain of many hours of real entertainment. The book is printed on heavy paper, and is securely bound in boards, with a beautiful cover design by Parsons. It should be in every family library in Kansas. A limited number of copies are offered at 50 cents apiece, postpaid. Address Book Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

extension specialist in dairying of Kansas State Agricultural college, was present to help launch an organization. W. J. Bower of Lyndon, was elected president; W. R. Galbreath of Melvern, vice-president; and F. W. Gibson, Osage City, secretary-treasurer. There were 14 charter members in the association. These men own 75 head of purebred Holsteins and about 140 head of grades. There are more than 40 Holstein breeders in the county, according to Mr. Wise.

Good Work in Gray County

An idea of the value of the Farm Bureau in Gray county may be had from the annual report of H. J. Adams, county agent, which was made recently. Mr. Adams reports that the increased yield in wheat, due to the introduction of Kanred, was 7,800 bushels. He reports that 5,200 acres of Kanred was sown from inspected seed and that approximately 4,800 acres were sown from non-inspected seed. He also reports that the acreage of Pink kafir was increased 2,000 acres. Mr. Adams placed 767 men on farms to meet farm labor requirements. Calves in 14 herds were vaccinated for black-leg. The loss last year, when

calves were not vaccinated, was 46 head, valued at \$2,000. There was no loss this year. More than 60 tons of grasshopper poisoning were spread on 25,000 acres. Articles, aggregating \$20,000, were listed for sale with the Farm Bureau. In addition, Mr. Adams helped with the Gray county fair, put on six prairie dog poisoning demonstrations, four animal disease investigations, eight poultry culling demonstrations, and inspected 12,500 bushels of seed.

Bought First Holstein in Holly

(Continued from Page 6.)

the cows eat until satisfied. Then they are transferred to another lot and the dry cows and young stuff are turned into the feeding lot. They clean up all the alfalfa left by the others. In this way Boetto always gets his hay bunkers cleaned out every day and there is never an accumulation of coarse alfalfa straw in the bottom.

Under this arrangement, also, the producing cows get the very best of the feed available and those not producing, while well fed, do not get the pick of the alfalfa.

Corn from 15 acres was used to fill the 175-ton silo. Early in the season 19 feet of silage was fed and this was refilled. The silage is very rich as the corn crop was especially good this year and the grain yield was around 65 bushels an acre. It was grown on irrigated land. Boetto had 65 acres in corn and after filling his silo he will have a large grain crop left.

Boetto and his brother are partners and operate 300 acres. Boetto's farm consists of 120 acres. Together they have 200 acres in alfalfa, 65 acres in corn, some pasture land and the remainder in oats and wheat. This year the alfalfa yielded 4 tons to the acre, giving a total production of 800 tons. Half of this was marketed as a cash crop, the remainder being kept on the place for feed. Boetto would like to feed all of the alfalfa but he was not in a position to do so this year.

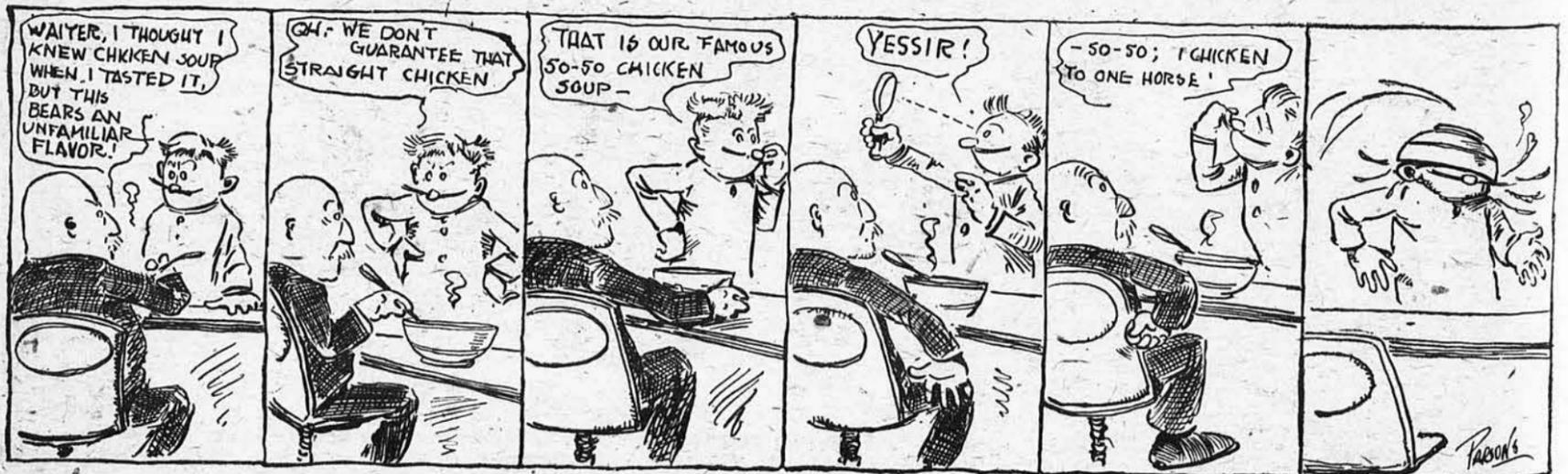
Along with his dairy herd Boetto has 65 head of purebred Duroc Jersey hogs. He has found the Holstein-Duroc Jersey combination very profitable, he says. The hogs are pastured on alfalfa in the summer.

Good machinery is well taken care of by Boetto. He has a light truck, which he uses to haul his milk the 7 1/2 miles to town. A manure spreader is one of the busy implements on his farm. Power is supplied by about 20 horses, all of them good sized.

Cement has been used liberally on this farm. The barn and milk house have concrete floors and the cooling tank is of concrete. A large divided water tank, located in the feedlot, also is made of concrete. Boetto says he has found it one of the best materials to use because of its permanency.

"I'm going to stick to the dairy business," said Boetto. "I like it. But I'm going to get more purebreds. All but three of the cows in my herd I raised myself. I'm going to raise some purebreds and buy some good ones as I can get the money. There is hard work in the dairy business but you always get well paid for what you do."

THE HOOVERS—The Soup Flavor—A Horse on Both Hoover and the Honest Waiter



Giving Calves a Chance

(Continued from Page 6.)

and which emits a crackling sound where handled. The germ causing the disease is widely distributed throughout most sections of the country. Young cattle between 6 months and 2 years old are most likely to take the disease. Calves less than 6 months old are rarely attacked. Blackleg is controlled by immunization by vaccination. All animals should be vaccinated before they are 6 months old and again six months later. Vaccine can be obtained from the United States Department of Agriculture, Bureau of Animal Industry, Washington, D. C., from your state college or state department of agriculture, or from companies manufacturing the serum.

As few dipping vats are available in most sections, it will be necessary to wash or spray the calf thoroly with some good coal-tar, tobacco, or oil-emulsion dip prepared for the purpose. A home remedy frequently used is a mixture of 1/2 pint of kerosene and 1 pound of lard, applied by thoroly rubbing into the hair, especially about the neck and shoulders. This remedy, like dipping or washing, is not advisable for small calves in cold, wet weather. An effective powder which may be used any time is prepared as follows: Mix gasoline 3 parts, carbolic acid 1 part, and plaster of Paris enough to take up the liquids. Make a paste and allow to dry. Powder and shake into the hair thoroly from a shaker or duster. Caution: Do not mix near a fire.

As milk is Nature's food for the calf it would be reasonable to suppose that milk alone is sufficient feed for it. In all cases, however, the calf should be provided with a little grain in addition to milk. If both the cows and the calf have good pasture and the cow is giving milk enough, the calf will grow to weaning age in good condition with less grain than otherwise would be needed.

When to Feed Grain

When from 4 to 6 weeks old a calf may be taught to eat grain. This may be done by feeding it in a creep pen to which the cow does not have access. Wheat bran is an excellent feed for this purpose. A good ration for the first few weeks would be coarsely ground corn, oats, and wheat bran, equal parts by weight, with a small quantity of oilmeal added every few days. Feed the calf at first 1/4 pound of grain a day, or just what it will eat up clean, giving one-half of the amount night and morning. After a few weeks a ration of whole oats 4 parts, shelled corn 2 parts, and oilmeal 1 part by weight should be substituted for the ground feeds. The calf should be eating from 2 to 3 pounds of grain a day when 6 months old, or approximately 1/2 to 1 pound of grain to 100 pounds live weight.

Unless the cow has been giving sufficient milk previous to this age of the calf, it may be advisable to provide a nurse cow for the calf. To make the most satisfactory growth the calf should have a liberal supply of milk for several months longer. This is especially true if it is to make a maximum growth and show to the best advantage when the fair season arrives.

The calf is old enough to wean when from 8 to 12 months old. Weaning should take from 12 to 15 days, and should be done gradually. When old enough to wean allow it to suck once a day for a week, then every other day for four or five days, and increase the interval until no milk at all is allowed.

Appropriation Bills Approved

BY RAY YARNELL

With the session of the legislature drawing to a close, important bills are now receiving much attention and are being whipped into shape for final action.

The bill providing for the building of dormitories for girls at the big state schools, materially amended, has been acted on favorably by both houses and probably will come out of conference with little change. The measure provides for a straight appropriation for the building of one such dormitory at one school immediately and another at some other school the year following, 1/2 million dollars being appropriated for this purpose.

The bill making it possible for farm-

ers to store wheat in local elevators or in terminal elevators, receiving warehouse receipts for it after the grain has been graded, and enabling them to sell the grain by wire when the market is satisfactory, has been favorably received in both houses and probably will be passed.

The co-operative banking bill has gotten thru the house safely and the farmer members will fight hard for it in the senate. This measure is desired by a great many farmers, many of whom are themselves bankers or owners of bank stock.

The Burdick livestock bill, which puts regulation of the stockyards at Kansas City, Kan., under the jurisdiction of the newly-created public utilities commission, seems safe, as little opposition to it has developed.

Likewise the so-called bonus bill, which simply checks up to a vote of the citizens whether they wish to issue 25 million dollars in bonds to pay a bonus to ex-service men, seems likely to go thru without trouble.

State hospitals would be given \$2,688,000 for maintenance during the next biennium if the bills introduced by the ways and means committees are passed.

The one piece of important legislation enacted at this session is made up of two bills, one divorcing the industrial court and the public utilities commission which were consolidated a year ago, and the other re-creating the public utilities commission. These bills are in the hands of the governor.

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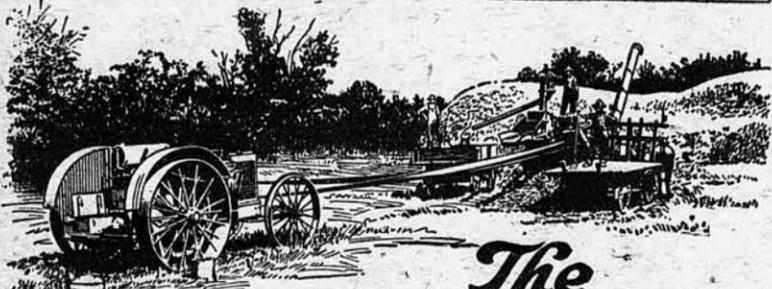
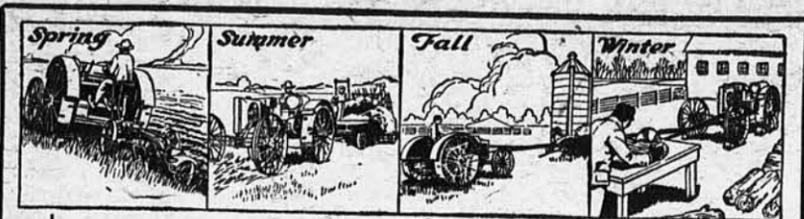
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Our Washington Comment

By Senator Capper

THE agricultural states, by which I mean the Middle West, are complaining bitterly, and with much reason, I believe, against further increases in railroad rates, especially on grain and livestock. According to a letter just received from a grain dealer in Kansas notice has been filed of an increase from 38 cents a hundred-weight to 53 cents from Kansas City or Atchison to New Orleans. It happens that No. 3 mixed corn is worth just 53 cents a bushel in Atchison, so that to ship 100 pounds of it from that place to the domestic trade in Louisiana would cost as much as a shipper receives for a bushel. Obviously, business cannot be conducted on any such basis.

The rate on corn between the points mentioned was 18 cents a hundred for many years. Therefore, the increase noted is a jump of about 300 per cent in a few years. This means, of course, that farmers in the South will begin increasing the acreage of corn, because Northern farmers cannot endure such rates.

States Against Commission

One of the most deplorable and irritating things we have to face today is the fact that while railroad rates have gone up, and apparently have not yet reached the top, the prices of everything our farmers produce have continued to go down. The troublesome question confronting us is just how long farmers may be expected to exist, and produce food under such conditions. There is a human limit.

The remedy must come, under our law, thru the Interstate Commerce Commission. And right here we encounter another problem, in this time of puzzling things. Quite evidently this commission is moving, slowly but certainly, toward autocratic control of the railroads to the entire exclusion of state boards. It is not wise to go too deeply into this phase at the moment, but one thing is certain: If the Cummins-Esch law confers any such authority then the law must be amended or repealed, because it would be conferring powers which, I am sure, Congress did not contemplate giving the commission.

The mental attitude of the country is pretty well shown in the determination of 19 states to join Wisconsin in challenging before the United States Supreme Court the right of the Interstate Commerce Commission to regulate railroad rates under the Federal Transportation act. These states were New York, North Carolina, South Carolina, Florida, Ohio, Indiana, Illinois, Michigan, Iowa, Kansas, Missouri, Louisiana, South Dakota, Nebraska, Texas, Montana, Utah, Nevada and Arizona. The outcome of this united protest against an attempt to deprive the states of a right which the attorney generals declare the Constitution gives them, will be watched with keen interest.

Freight Volume Cut Down

The railroads are said to be handling a sharply decreased freight traffic, and if this is true it is due very largely to excessively high rates. No doubt business depression had something to do with cutting down passenger and freight revenues, but rate increases, and a widespread resentment against these startling increases, are responsible to quite an extent. I believe the roads will learn soon that it is better to do a large volume of business on a small margin of profit than to handle a small volume with no profit at all.

Real Railroad Needed

I believe the truth will sink in eventually that what we need right now is a return to real railroading, with less so-called financing. It may be too much to ask just now, but the country will welcome a return of the spirit which made railroad men, from superintendent to section hand, take a personal interest and pride in their particular road. We had such a spirit in railroading, and I believe it will come again. Of course this talk of further

increases in rates is the worst and most dangerous kind of buncombe. Many rates will have to be lowered, and we all know it. The desired adjustment can be effected, too, by proper economies in operation, and by general saving all along the line.

"Reparations" for Brewers

Someone once said that even the dreariest situation had its humorous aspects. Only you watched for them. In this time of general readjustment, when every sensible person is trying to get back to what our new President calls normalcy, it will afford a few moments of relaxation, I am certain, to contemplate the recent demands of the brewery and distillery interests for payment by the Government—which means by the whole people—of "losses" they sustained by reason of the prohibition law. The indubitable fact that many breweries are now earning as much from sales of near-beer, malted milk, candy, and other products, not forgetting the bootlegging and blind pigs, as they made previously, seems not to be considered. These interests which once believed, and with some show of reason, that they owned the country, are to ask Congress, by special enactment, for several billion dollars.

While there is about as much chance of the brewers getting this money from Congress as there is of Texas going Republican, the attempt may prove diverting, at least, because it might bring to light much information of value. The country might learn, for one thing, that saloon buildings are quite generally rented; saloon equipment is used almost as fully in handling less dangerous drinks as in dispensing poison, and the very important fact that many distilleries are making alcohol, and other distillations in large volume.

How Big Business Acts

It seems to me that farmers everywhere might well profit by the example of unity of purpose shown by the business men in industries other than agriculture. The United States Chamber of Commerce has come to the aid of the packers. Commercial clubs and chambers of commerce everywhere are sending into Washington protests against legislation regulating the packing industry, and in general against those acts for which farmers stand. The movement is a fine show of efficient co-operation. I always have contended that if farmers expressed themselves as emphatically thru their organizations as other business men do much more might be accomplished in their interest.

Cutting Government Costs

Here is a ray of hope for the tax-burdened public! For the first seven months of the fiscal year—from July 1 to January 31—the total cost of Government operations was \$2,896,193,605. For the same period a year ago it was \$4,195,178,805. This is a noteworthy reduction in expenditures, but it is still about five times the total for 1916. The Government, therefore, operated for the first seven months of the fiscal year for about \$1,300,000,000 less than a year ago.

Court's Delay Irritates

The inexcusable delay of the Supreme Court in giving a decision in the injunction suit brought against the Federal Land Banks is causing great irritation and disappointment throughout the country. I am receiving numerous letters about it. It is declared that this delay has caused a loss to farmers of more than 100 million dollars. This delay must continue, I fear, for a while longer, and even after a decision has been rendered several months will be needed to get the Federal machinery again into operation.

Arthur Capper

Washington, D. C.

Notes on Raising Poultry

BETTER PRICES will be obtained for eggs if they are marketed properly because when they arrive at market centers they will still retain their appearance of freshness and will naturally command a premium over eggs which do not appear so fresh.

In this connection A. L. Drummond of Norton, Kan., a poultry breeder, suggests that farmers in every locality should organize a poultry route and bring eggs to market every day so they can be shipped out promptly. He suggests that 14 farmers form a route. On that basis every farmer would cover the route once in two weeks, gathering up the eggs and taking them to town. In this way the job would not be onerous on any one person and the cost would be insignificant.

"It is a fact," said Mr. Drummond, "that the quicker eggs are marketed after being laid, the better prices they will bring. It will work every time and it will pay farmers to get their eggs on the way to market as quickly as they can."

Improving Farm Flocks

Farm flocks in Kansas are being quite generally improved in the opinion of L. E. Drown, a poultry raiser of Manhattan, Kan. Mr. Drown says that the demand for quality males and females has been exceedingly good during the last year and that many farmers are buying standardbred birds as foundation stock.

"I have had more calls for good cocks and cockerels than I can fill," said Mr. Drown. "Many of these calls have come from farmers. It certainly is a good indication that farmers are taking more interest in the quality of chickens they are raising and are becoming convinced that well bred poultry will yield greater returns both from eggs and for slaughter than poorly bred birds. The demand now is unusually good, indicating that more farmers are getting into the poultry business. In my opinion the present offers an excellent opportunity for making money out of poultry."

A Shortage of Poultry Products

With cheap feeds and a nation-wide shortage of poultry as marked as the shortage of hogs, no time could be more opportune than the present for a farmer to get into the poultry business. That is the opinion of E. L. Stewart, a poultry breeder of Wichita. Mr. Stewart said that there was a marked shortage of poultry due to the fact that many farmers sold their flocks during the period when prices were high and when costly feeds limited profits. A great many of these farmers, he declared, have not replaced their flocks since. This has brought about a shrinkage in egg production to the point where it is unlikely, in his opinion, that prices will be much reduced during the spring. He pointed out that the quantity of eggs and poultry in cold storage was exceptionally low early this year and he believed the present good prices would continue for some time.

While breeding stock is still fairly high in price, he said the average farmer could afford to buy good cockerels to build up his flock because he could grow his chickens on cheap feed and could then take his profit.

Good Prices

"Of course the prices of eggs and poultry are going down to some extent," remarked H. F. Hicks of Cambridge, Kan., in discussing the future outlook of the poultry business in Kansas, "but the decline is going to be slow and the drop will not be far. I don't think prices will decline in the proportion that the prices of hogs have gone down."

"There aren't enough birds in the country to permit of that. And in the face of such a situation, and the fact that feed can be bought cheap, I can see no reason why anybody having a flock of standardbred chickens, which are given adequate care, cannot make a good profit."

"I am buying corn at 60 cents a bushel now. A year ago I was paying \$1.70. I have a crib that will hold 700 bushels and I am having it filled. It has been more than seven years since it was full. I like corn better than kafir because I think it will fatten

chickens quicker. I feed a little kafir in the scratch ration but not a great deal of it."

To Lengthen the Working Day

The use of electric light to lengthen the working day of hens and pullets is endorsed by many Kansas poultry breeders as an excellent means of increasing egg production. E. L. Stewart of Wichita and L. E. Drown of Man-

hattan say that they have seen electricity used successfully by poultrymen and that egg production can be increased from 25 to 30 per cent.

Most breeders, however, do not use electric lights because they are not primarily in the business of producing eggs.

"The longer work day," said Mr. Stewart, "certainly stimulates egg production and it is all right for the man who raises poultry for eggs and slaughter. But forced egg production reduces the vitality of the hens and in my opinion makes them less desirable for breed-

ing purposes. However, I have been considering the use of electricity in a modified way with at least a part of my flock."

"I put an advertisement in the Kansas Farmer and Mail and Breeze recently," said H. F. Hicks of Cambridge, Kan., while attending the Kansas Poultry Show in Topeka, "and sold \$55 worth of chickens in a week. I got one order by wire. You can get mighty good results from the Kansas Farmer and Mail and Breeze and I think more poultry raisers could use it profitably."

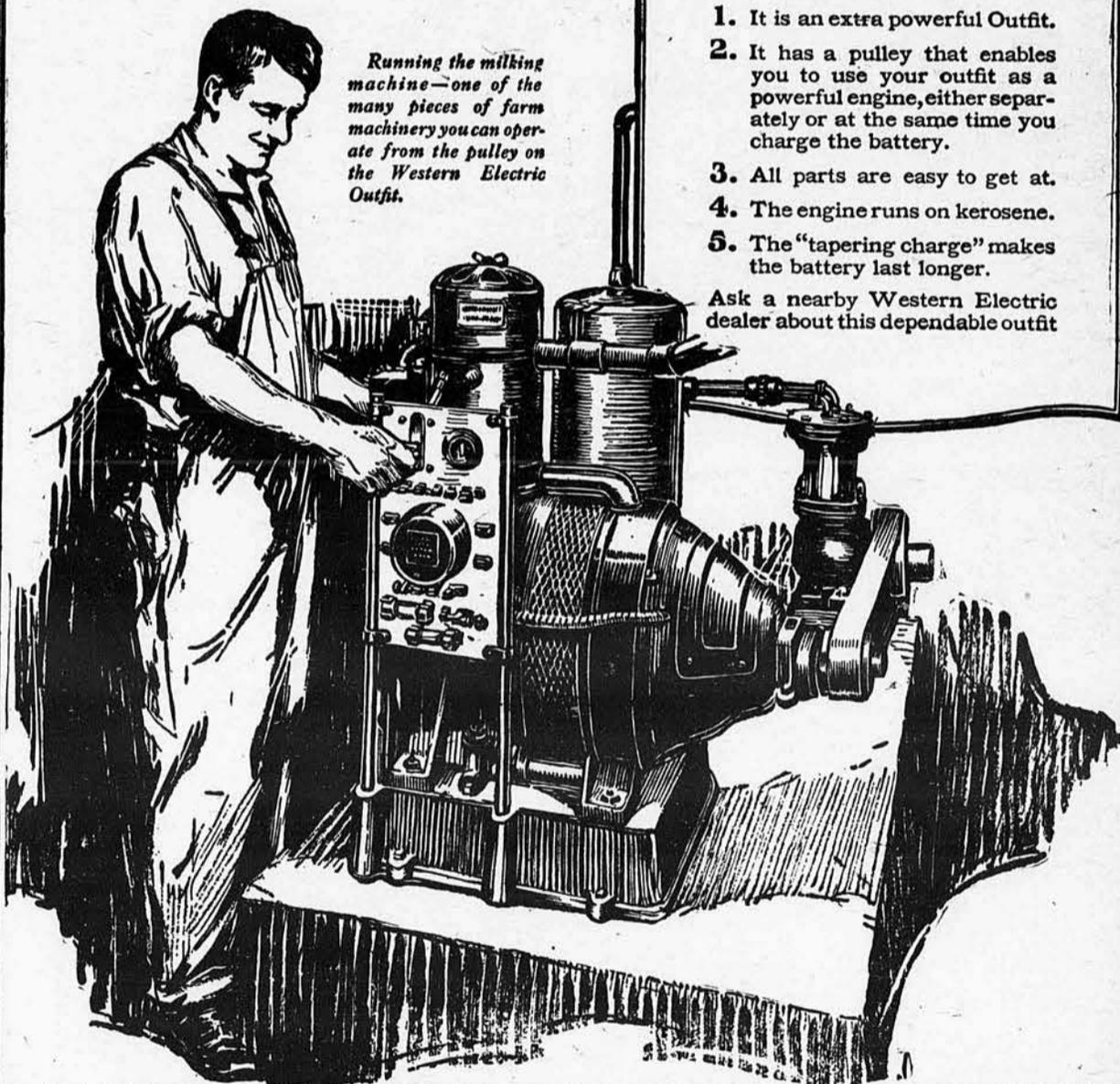
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Busy Farmers Had Big Time

Many Saw Wichita's Wonderful Thresher Show

BY CHARLES E. SWEET

DURING the past few months I have encountered a number of persons who would find pleasure in ringing a death knell. They have assured me with a long face, but with absolute confidence that there would be no buying this year; that the tractor and power farming was on its last legs, and that farmers were not going to produce except in limited quantities.

A crushing refutation of these allegations was the Threshermen's Convention at Wichita last week. The weather man ordered out four fine spring days and thousands of farmers from Kansas, Oklahoma and the Southwest generally met on Wichita's "Tractor Row." They saw a mighty fine exhibit of threshers and tractors displayed to the best possible advantage because the tractors were running under their own power and were operating separators, grinding outfits, and many other kinds of farm machinery. In other words, there were no show models. Every tractor was taken from stock, ready to go out on a farm and go to work, and every thresher was ready to take in the wheat.

Much of the show was out in the open air for every factory branch uti-

lized the available street space to have from one machine to five of its machines operating under varying conditions. The big warehouses were thrown open and scores of machines and repairs were exhibited there. Most of the tractors were gas or oil engines, but several big steamers were fired up and running.

The crowd was practically all farmers as this type of show eliminated the city sight-seer. A very few factory representatives were present, so that the exhibits were handled almost entirely by the Wichita houses, assisted in some cases by local dealers from Kansas and Oklahoma.

Farmers were there to see and to buy. They were interested in tractors, and the big tractors came in for a lot of discussion. Wheat is looking mighty good in the Southwest and the professional pessimist would have had a pretty hard time in that crowd. Don't get the impression that there was a mad rush to buy threshers or tractors, for as a matter of fact there was not a great deal of actual buying. A number of tractors and some threshers were reported sold, and quite a quantity of tillage implements. However, there was a great deal of real buying interest and it indicated that there would be buying later. And right here I wish to editorialize for one paragraph.

Now is the Time to Buy

If all buying of power farming machinery or implements is put off until the last minute, it will cause a really serious condition. Branch houses are not heavily enough stocked to meet a really heavy and sudden demand. Under present conditions they cannot afford to stock extra heavily and it is questionable whether the factories can meet heavy demands in short order. Many factories have been completely shut down, or on very small production for many months, and to the best of my knowledge many great stocks of tractors are piled up in warehouses. Therefore, the man who is really intending to buy any kind of machinery this season should give serious consideration to the early placing of his order.

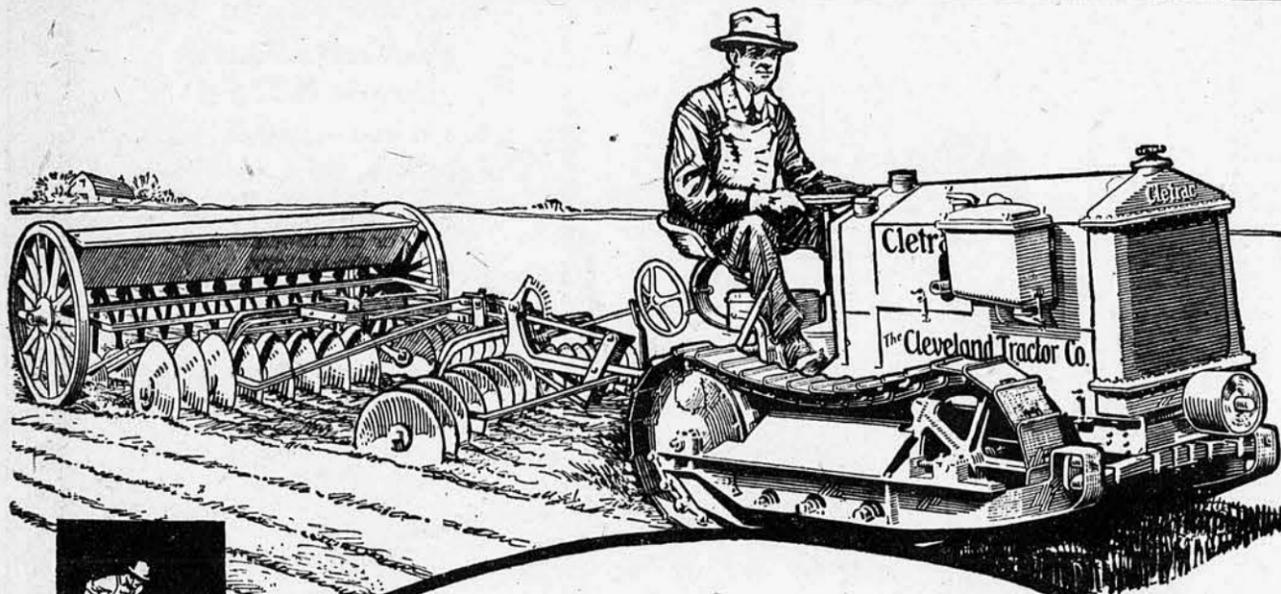
The Wichita Thresher and Tractor Club put on two very excellent features during the show. The entire seating capacity of Wichita's big vaudeville theater was purchased for Wednesday night and tickets were supplied free to the visitors at the tractor show. Two entertainments were given during the evening and both played to full houses.

Million Dollar Tractor Parade

Thursday afternoon the "Million Dollar Tractor Parade" went down the main street of Wichita. A heavy wind that sprang up about noon made it slightly unpleasant for the spectators who lined both sides of the street, but it was a most interesting parade. Six women drove tractors in the parade and handled them as easily as the men did. Practically all of them were farm women who had come to see the show. Only one was dressed for the occasion. She wore an olive drab shirt and sweater, breeches and puttees and a cap. The others just climbed upon the seats in their street clothes and put the tractors thru their paces in good order.

All sizes of tractors and threshers were in the parade, as well as various sizes of plows and tillage implements. Two combine thresher-harvesters also were shown. One was the combine which proved so popular in Western Kansas last year, while the other was a machine made in Wichita which was given its try-out last season and probably will be in production this year.

Before oiling or greasing, brush the boots or shoes thoroly to remove all the dirt and dust, warm them carefully, bearing in mind the danger of burning them if they are wet, and apply warm oil or grease with a swab of wool or flannel. The oil or grease should never be hotter than the hand can bear, and it should be rubbed well into the leather. After being greased the shoes should be left to dry in a warm, but not hot, place.



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Height: 52 inches
Weight: 3420 pounds
Turning Circle: 12 feet
Traction Surface: About 800 square inches
Center to Center of Tracks: 38 inches
Belt Pulley: Diameter 8 inches Face 6 inches

Cletrac
TANK-TYPE
TRACTOR

Grain Marketing Plan Explained

The Farmers' Grain Marketing Committee of Seventeen at its last meeting in Kansas City, voted unanimously to recommend to the farmers of America a grain-marketing plan based essentially on the incorporation of a grain growers' co-operative National Sales Agency. It is proposed to incorporate the National Sales Agency in the form of a non-stock, non-profit, grain-growers' co-operative membership organization which will provide for the marketing of grain by virtue of contracts with farmers' co-operative elevators or with local grain-growers' co-operative associations.

The growers of grain will take membership in the National Sales Agency. They will then effect an agreement with their local co-operative elevator or with their local grain-growers' association to deliver their grain on the basis of either a sales contract or a pooling contract. The local elevator or grain-growers' association will contract with the National Sales Agency to handle the grain.

It is contemplated that the National Sales Agency will control, thru ownership of the voting stock, the following:

Terminal Agencies, Finance Corporation, Export Corporation, and Service Departments.

Terminal Agencies—Branch sales offices will be provided at important grain markets to handle the grain for every natural grain district. Wherever possible, use probably will be made of all farmers' co-operative machinery such as now exists. Efforts will be made to open boards of trade to farmers' co-operative agencies desiring to operate thru seats on the exchanges.

Warehouse Corporation—In connection with the branch sales offices, it will be necessary to provide Government-licensed warehouses, from which warehouse receipts will be issued and used as a basis of credit. These warehouse facilities will be acquired thru lease, purchase, or erection.

Finance Corporation—A finance corporation is contemplated in order to provide adequate farmer-controlled credit facilities whereby country elevators may properly finance the moving of the crop in an orderly fashion. The capital stock of the finance corporation will be subscribed when growers are asked to sign up their memberships in the National Sales Agency. The finance corporation is designed only to supplement existing financial machinery.

Export Corporation—The farmer-controlled Export Corporation will provide proper facilities for marketing the exportable surplus of grain.

Service Departments—The service departments are designed to provide accurate information on local, regional, National and World-wide conditions which affect the grain trade. Transportation, legal, statistical and other departments will be included.

The membership subscriptions of the growers will provide the National Sales Agency with the initial working capital necessary for the acquisition of facilities for the immediate handling of grain on consignment. Later the running expenses of the National Sales Agency will be obtained by assessing a handling charge on the grain marketed thru its offices.

Farmers' co-operative elevator companies, composed of grower-members and organized on a patronage dividend basis, are to be asked to contract with the National Sales Agency for the sale of the grain of its members. Where a farmers' co-operative elevator does not exist, a local co-operative association, composed of grain growers only, will be organized and contracts arranged between it and the National Sales Agency. The local co-operative associations will provide local elevator facilities, either by contract with existing elevator companies or by leasing, buying or building elevators. Probably non-co-operative local elevator companies will be requested to change their form of organization so as to become co-operatives and to meet the requirements for dealing with the National Sales Agency.

Having erected and approved the skeleton of its plan, the Farmers' Grain Marketing Committee of Seventeen is now diligently applying itself to the details. Sub-committees are hard at work perfecting various phases of the plan. As soon as the structure and phrasing of the contracts and organization forms are completed they

will be submitted to a committee of the most eminent attorneys in America for further revisions.

When the plan is finished, it will be submitted to a convention of the various farmers' organizations interested in approving it as a means of improving the grain-marketing of the Nation. Meantime the farmer is afforded this opportunity to study the plan and to decide concerning its application to his own business of producing grain and of marketing it in the most efficient manner.

Assessors Collect Farm Statistics

The annual collection of basic agricultural statistics, principally the acreage planted to every crop, by county assessing officers under state laws, is now conducted in 21 states and has been of great benefit. The wide adoption of this plan resulted from the experience during the war emergency, when states like Kansas, with such laws in operation, were able to obtain definite data regarding county food and feed production and supply, while other states suffered great anxiety, inconvenience, and damage from the lack of such knowledge.

It is hoped by statisticians of the

United States Department of Agriculture that such a law will be speedily enacted in every state. The benefits of such full and dependable data concerning the state and every county annually are very great to agricultural producers and to all business interests affected by farm output and purchasing power.

An Edition of The Crisis

An edition of *The Crisis*, by Winston Churchill, in the Pocket Classics form, has just been published by The Macmillan Company, 66 Fifth Avenue, New York, N. Y. This story of the Civil war is regarded as one of the greatest American historical novels, and The Macmillan Company has performed a real service in providing an edition at a low price; every family should have this book in the library. It consists of 543 pages bound in boards; the price is 48 cents.

In starting a grove, the planter ordinarily has the choice of using seedlings, seed or cuttings. Seedlings 1 or 2 years old are preferable in the great majority of cases. They are fairly cheap and have the best chance of succeeding.

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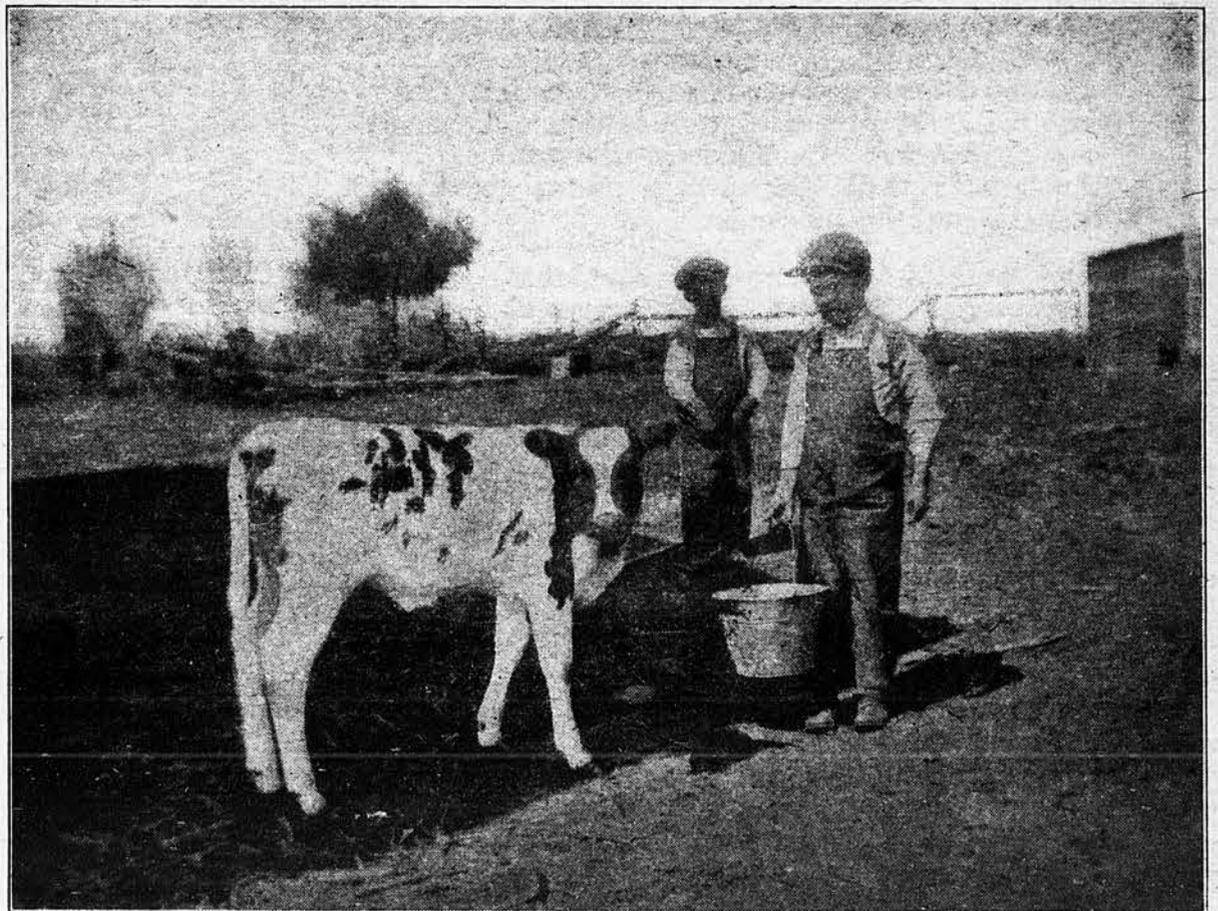
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- (2) Greater justice in the distribution of wealth;
- (3) Greater wisdom in the consumption of wealth.

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THE VOICE OF THE PACK

A Story of the Western Forests

BY EDISON MARSHALL

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I DO very well, Cranston," Dan answered in the same tone. "Wouldn't you like another match? I believe your pipe has gone out."

Very little can be said for the wisdom of this remark. It was simply human—that age-old creed to answer blow for blow and insult for insult. Of course the inference was obvious,—that Dan was accusing him, by innuendo, of his late attempt at arson. Cranston glanced up quickly, and it might be true that his fingers itched and tingled about the barrel of his rifle. He knew what Dan meant. He understood perfectly that Dan had guessed his purpose on the mountain side. And the curl at his lips became more pronounced.

"What a smart little boy," he scorned. "Going to be a Sherlock Holmes when he grows up." Then he half turned and the light in his eyes blazed up. He was not leering now. The mountain men are too intense to play at insult very long. Their inherent savagery comes to the surface, and they want the warmth of blood upon their fingers. The voice became guttural. "Maybe you're a spy?" he asked. "Maybe you're one of those city rats—to come up and watch us, and then run and tell the Forest Service. There's two things, Failing, that I want you to know."

Dan puffed at his pipe, and his eyes looked curiously bright thru the film of smoke. "I'm not interested in hearing them," he said.

The Fight

"It might pay you," Cranston went on. "One of 'em is that one man's word is good as another's in a court—and it wouldn't do you any good to run down and tell tales. A man can light his pipe on the mountain side without the courts being interested. The second thing is—just that I don't think you'd find it a healthy thing to do."

"I suppose, then, that is a threat?"

"It ain't just a threat." Cranston laughed harshly—a single, grim syllable that was the most terrible sound he had yet uttered. "It's a fact. Just try it, Failing. Just make one little step in that direction. You couldn't hide behind a girl's skirts then. Why, you city sissy, I'd break you to pieces in my hands!"

Few men can make a threat without a muscular accompaniment. Its very utterance releases pent-up emotions, part of which can only pour forth in muscular expression. And anger is a primitive thing, going down to the most mysterious depths of a man's nature. As Cranston spoke, his lip curled, his dark fingers clenched on his thick palm, and he half leaned forward.

Dan knocked out his pipe on the log. It was the only sound in that whole mountain realm; all the lesser sounds were stilled. The two men stood face to face, Dan tranquil, Cranston shaken by passion.

"I give you," said Dan with entire coldness, "an opportunity to take that back. Just about four seconds."

He stood very straight as he spoke, and his eyes did not waver in the least. It would not be the truth to say that his heart was not leaping like a wild thing in his breast. A dark mist was spreading like madness over his brain; but yet he was striving to keep his thoughts clear. It was hard to do, under insult. But he knew that only by craft, by cool thinking and planning, could he even hope to stand against the brawny Cranston. He kept a remorseless control over his voice and face. Stealthily, without seeming to do so, he was setting his muscles for a spring.

The only answer to his words was a laugh—a roaring laugh of scorn from Cranston's dark lips. In his laughter, his intent, catlike vigilance relaxed. Dan saw a chance; feeble tho it was, it was the only chance he had. And his long body leaped like a serpent thru the air.

Physical superior tho he was, Cran-

ston would have repelled the attack with his rifle if he had had a chance. His blood was already at the murder heat—a point always quickly reached in Cranston—and the dark, hot fumes in his brain were simply nothing more nor less than the most poisonous, bitter hatred. No other word exists. If his class of degenerate mountain men had no other accomplishment, they could hate. All their lives they practiced the emotion: hatred of their neighbors, hatred of law, hatred of civilization in all its forms. Besides, this kind of hillman habitually fought his duels with rifles. Hands were not deadly enough.

But Dan was past his guard before he had time to raise his gun. The whole attack was one of the most astounding surprises of Cranston's life. Dan's body struck his, his fists flailed, and to protect himself, Cranston was obliged to drop the rifle. They staggered, as if in some weird dance, on the trail; and their arms clasped in a clinch.

For a long instant they stood straining, seemingly motionless. Cranston's powerful body had stood up well under the shock of Dan's leap. It was a hand-to-hand battle now. The rifle had slid on down the hillside, to be caught in a clump of brush twenty feet below. Dan called on every ounce of his strength, because he knew what mercy he might expect if Cranston mastered him. The battles of the mountains were battles to the death.

They flung back and forth, wrenching shoulders, lashing fists, teeth and feet and fingers. There were no Marquis of Queensbury rules in this battle. Again and again Dan sent home his blows; but they all seemed ineffective. By now, Cranston had completely overcome the moment's advantage the other had obtained by the power of his leap. He hurled Dan from the clinch and lashed at him with hard fists.

It is a very common thing to hear of a silent fight. But it is really a more rare occurrence than most people believe. It is true that serpents will often fight in the strangest, most eerie silence; but human beings are not serpents. They partake more of the qualities of the meat-eaters—the wolves and the felines. After the first instant, the noise of the fight aroused the whole hillside. The sound of blows was in itself notable, and besides, both of the men were howling the primordial battle cries of hatred and vengeance.

A Losing Game

For two long minutes Dan fought with the strength of desperation, summoning at last all that mysterious reserve force with which all men are born. But he was playing a losing game. The malady with which he had suffered had taken too much of his vigor. Even as he struggled, it seemed to him that the vista about him, the dark pines, the colored leaves of the perennial shrubbery, the yellow path were all obscured in a strange, white mist. A great wind roared in his ears—and his heart was evidently about to shiver to pieces.

But still he fought on, not daring to yield. He could no longer parry Cranston's blows. The latter's arms went around him in one of those deadly holds that wrestlers know; and Dan struggled in vain to free himself. Cranston's face itself seemed hideous and unreal in the mist that was creeping over him. He did not recognize the curious thumping sound as Cranston's fists on his flesh. And now Cranston had hurled him off his feet.

Nothing mattered further. He had fought the best he could. This cruel beast could pounce on him at will and hammer away his life. But still he struggled. Except for the constant play of his muscles, his almost unconscious effort to free himself that kept one of Cranston's arms busy holding him down, that fight on the mountain path might have come to a sudden end. Human bodies can stand a terrific punishment; but Dan's was weakened from the ravages of his disease. Besides, Cranston would soon have both hands

and both feet free for the work, and when these four terrible weapons are used at once, the issue—soon or late—can never be in doubt.

But even now, consciousness still lingered. Dan could hear his enemy's curses—and far up the trail, he heard another, stranger sound. It was that second of acute sensibilities that usually immediately precedes unconsciousness, and he heard it very plainly. It sounded like some one flinching.

And then he dimly knew that Cranston was climbing from his body. Voices were speaking—quick, commanding voices just over him. Above Cranston's savage curses another voice rang clear, and to Dan's ears, glorious beyond all human utterance.

He opened his tortured eyes. The mists lifted from in front of them, and the whole drama was revealed. It had not been sudden mercy that had driven Cranston from his body, just when his victim's falling unconsciousness would have put him completely in his power. Rather it was something black and ominous that even now was pointed squarely at Cranston's breast.

None too soon, a ranger of the hill had heard the sounds of the struggle, and had left the trysting place at the spring to come to Dan's aid. It was Snowbird, very pale but wholly self-sufficient and determined and intent. Her pistol was cocked and ready.

"Go Away"

Dan failing was really not badly hurt. The quick, lashing blows had not done more than severely bruise the flesh of his face; and the mists of unconsciousness that had been falling over him were more nearly the result of his own tremendous physical exertion. Now these mists were rising.

"Go—go away," the girl was commanding. "I think you've killed him."

Dan opened his eyes to find her kneeling close beside him, but still covering Cranston with her pistol. Her hand was resting on his bruised cheek. He couldn't have believed that a human face could be as white, while life still remained, as hers was then. All the lovely tints that had been such a delight to him, the play of soft reds and browns, had faded as an afterglow fades on the snow.

Dan's glance moved with hers to Cranston. He was standing easily at a distance of a dozen feet; and except for the faintest tremble all over his body, a muscular reaction from the violence of his passion, he had entirely regained his self-composure. This was quite characteristic of the mountain men. They share with the beasts a passion of living that is wholly unknown on the plains; but yet they have a certain quality of imperturbability known nowhere else. Nor is it limited to the native-born mountaineers. No man who intimately knows a member of that curious, keen-eyed little army of naturalists and big-game hunters who go to the north woods every fall, as regularly and seemingly as inexorably as the waterfowl go in spring, can doubt this fact. They seem to have acquired from the silence and the snows an impregnation of that eternal calm and imperturbability that is the wilderness itself. Cranston wasn't in the least afraid. Fear is usually a matter of uncertainty, and he knew exactly where he stood.

It is extremely doubtful if a plainsman would have possessed this knowledge. But a plainsman has not the knowledge of life itself that the mountaineer has, simply because he does not see it in the raw. And he has not half the intimate knowledge of death, an absolute requisite of self-composure. The mountaineer knows life in its simple phases with little tradition or convention to blur the vision. Death is a very intimate acquaintance that may be met in any snowdrift, on any rocky trail; and these conditions are very deadly to any delusions that he has in regard to himself. He acquires an ability to see just where he stands, and of course that means self-possession. This quality had something to do with the remarkable record that the mountain men, such as that magnificent warrior from Tennessee, made in the late war.

Cranston knew exactly what Snowbird would do. Altho of a higher order, she was a mountain creature, even as himself. She meant exactly what she said. If he hadn't climbed from Dan's prone body, she would have shot quickly and very straight. If he tried to attack either of them now, her finger would press back before he could blink

an eye, and she wouldn't weep any hysterical tears over his dead body. If he kept his distance, she wouldn't shoot at all. He meant to keep his distance. But he did know that he could insult her without danger to himself. And by now his lips had acquired their old curl of scorn.

"I'll go, Snowbird," he said. "I'll leave you with your sissy. But I guess you saw what I did to him—in two minutes."

"I saw. But you must remember he's sick. Now go."

An Insult

"If he's sick, let him stay in bed—and have a wet nurse. Maybe you can be that."

The lids drooped halfway over her gray eyes, and the slim finger curled more tightly about the trigger. "Oh, I wish I could shoot you, Bert!" she said. She didn't whisper it, or hiss it, or hurl it, or do any of the things most people are supposed to do in moments of violent emotion. She simply said it, and her meaning was all the clearer.

"But you can't. And I'll pound that milk-sop of yours to a jelly every time I see him. I'd think, Snowbird, that you'd want a man."

He started up the trail; and then she did a strange thing. "He's more of a man than you are, right now, Bert," she told him. "He'll prove it some day." Then her arm went about Dan's neck and lifted his head upon her breast; and in Cranston's plain sight, she bent and kissed him, softly, on the lips.

Cranston's answer was an oath. It dripped from his lips, more poisonous, more malicious than the venom of a snake. His late calm, treasured so much, dropped from him in an instant. His features seemed to tighten, the dark lips drew away from his teeth. No words could have made him such an effective answer as this little action of hers. And as he turned up the trail, he called down to her a name—that most dreadful epithet that foul tongues have always used to women held in greatest scorn.

Dan struggled in her arms. The kiss on his lips, the instant before, had not called him out of his half-consciousness. It had scarcely seemed real, rather just an incident in a blissful dream. But the word called down the trail shot out clear and vivid from the silence, just as a physician's face will often leap from the darkness after the anesthesia. The whole scene in an instant became incredibly vivid—the dark figure on the trail, the girl's white face above him, narrow-eyed and drawn-lipped, and the dark pines, silent and sad, overhead. Something infinitely warm and tender was holding him, pressing him back against a holy place that throbbed and gave him life and strength; but he knew that this word had to be answered. And only actions, not other words, could be its payment. All the voices of his body called to him to lie still, but the voices of the spirit, those higher, nobler promptings from which no man, to the glory of the breed from which he sprung, can ever quite escape, were stronger yet. He tugged upward, straining. But he didn't even have the strength to break the hold that the soft arm had about his neck.

"Oh, if I could only pull the trigger!" she was crying. "If I could only kill him—"

"Let me," he pleaded. "Give me the pistol. I'll kill him—"

And he would. There was no flinching in the gray eyes that looked up to her. She leaned forward, as if to put the weapon in his hands, but at once drew it back. And then a single sob caught at her throat. An instant later, they heard Cranston's laughter as he vanished around the turn of the trail.

For long minutes the two of them were still. The girl still held the man's head upon her breast. The pistol had fallen in the pine needles, and her nervous hand plucked strangely at the leaves of a mountain flower. To Dan's eyes, there was something trance-like, a hint of paralysis and insensibility about her posture. He had never seen her eyes like this. The light that he had always beheld in them had vanished. Their utter darkness startled him.

He sat up straight, and her arm that had been about his neck fell at her side. He took her hand firmly in his, and their eyes met.

"We must go home, Snowbird," he told her simply. "I'm not so badly hurt but that I can make it."

She nodded, but otherwise scarcely

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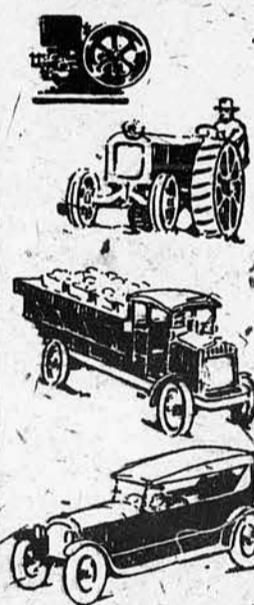
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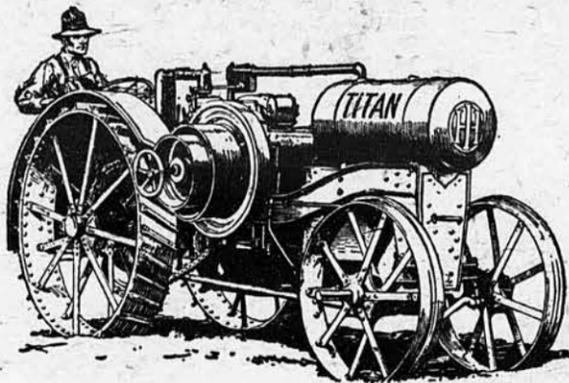
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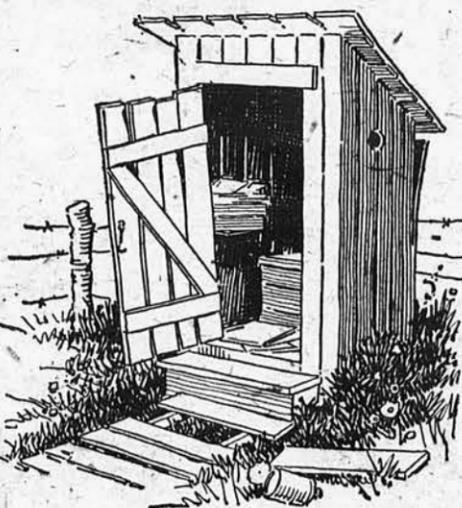
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seemed to hear. Her eyes still flowed with darkness. And then, before his own eyes, their dark pupils began to contract. The hand he held filled and throbbed with life, and the fingers closed around his. She leaned toward him.

"Listen, Dan," she said quickly. "You heard—didn't you—the last thing that he said?"

"I couldn't help but hear, Snowbird." Her other hand sought for his. "Then if you heard—payment must be made. You see what I mean, Dan. Maybe you can't see, knowing the girls that live on the plains. You were the cause of his saying it, and you must answer—"

The Code of the Hills

It seemed to Dan that some stern code of the hills, unwritten except in the hearts of their children, inexorable as night, was speaking thru her lips. This was no personal thing. In some dim, half-understood way, it went back to the basic code of life.

"People must fight their own fights, up here," she told him. "The laws of the courts that the Plains' people can appeal to are all too far away. There's no one that can do it, except you. Not my father. My father can't fight your battles here, if your honor is going to stand. It's up to you, Dan. You can't pretend that you didn't hear him. Such as you are, weak and sick to be beaten to a pulp in two minutes, you alone will have to make him answer for it. I came to your aid—and now you must come to mine."

Her fingers no longer clasped his. Strength had come back to him, and his fingers closed down until the blood went out of hers, but she was wholly unconscious of the pain. In reality, she was conscious of nothing except the growing flame in his face. It held her eyes, in passionate fascination. His pupils were contracting to little bright dots in the gray irises. The jaw was setting, as she had never seen it before.

"Do you think, Snowbird, that you'd even have to ask me?" he demanded. "Don't you think I understand? And it won't be in your defense—only my own duty."

"But he is so strong—and you are so weak—"

"I won't be so weak forever. I never really cared much about living before. I'll try now, and you'll see—oh, Snowbird, wait and trust me: I understand everything. It's my own fight—when you kissed me, and he cried down that word in anger and jealousy, it put the whole thing on me. No one else can make him answer; no one else has the right. It's my honor, no one else's, that stands or falls."

He lifted her hand to his lips and kissed it again and again.

And for the first time he saw the tears gathering in her dark eyes. "But you fought here, didn't you, Dan?" she asked with painful slowness. "You didn't put up your arms—or try to run away? I didn't come till he had you done, so I didn't see." She looked at him as if her whole joy of life hung on his answer.

"Fought! I would have fought till I died! But that isn't enough, Snowbird. It isn't enough just to fight, in a case like this. A man's got to win! I would have died if you hadn't come. And that's another debt that I have to pay—only that debt I owe to you."

She nodded slowly. The lives of the mountain men are not saved by their women without incurring obligation. She attempted no barren denials. She made no effort to pretend he had not incurred a tremendous debt when she had come with her pistol. It was an unavoidable fact. A life for a life is the code of the mountains.

"Two things I must do, before I can ever dare to die," he told her soberly. "One of them is to pay you; the other is to pay Cranston for the thing he said. Maybe the chance will never come for the first of the two; only I'll pray that it will. Maybe it would be kinder to you to pray that it wouldn't; yet I pray that it will! Maybe I can pay that debt only by being always ready, always watching for a chance to save you from any danger, always trying to protect you. You didn't come in time to see the fight I made. Besides—I lost, and little else matters. And that debt to you can't be paid until sometime I fight again—for you—and win." He gasped from his weakness, but went on bravely. "I'll never be able to feel at peace, Snowbird, until I'm tested in the fire before your

eyes! I want to show you the things Cranston said of me are not true—that my courage can stand the test. "It wouldn't be the same, perhaps, with an Eastern girl. Other things matter in the valleys. But I see how it is here; that there is only one standard for men and by that standard they rise or fall. Things in the mountains are down to the essentials."

A Better Man

He paused and struggled for strength to continue. "And I know what you said to him," he went on. "Half-unconscious as I was, I remember every word. Each word just seems to burn into me, Snowbird, and I'll make every one of them good. You said I am a better man than he, and sometime it would be proved—and it's the truth! Maybe in a month, maybe in a year. I'm not going to die from this malady of mine now, Snowbird. I've got too much to live for—too many debts to pay. In the end, I'll prove your words to him."

His eyes grew earnest, and the hard fire went out of them. "It's almost as if you were a queen, a real queen of some great kingdom," he told her, tremulous with a great awe that was stealing over him, as a mist steals over water. "And because I had kissed your fingers, for ever and ever I was your subject, living only to fight your fights—maybe with a dream in the end to kiss your fingers again. When you bent and kissed me on that hillside—for him to see—it was the same; that I was sworn to you, and nothing mattered in my life except the service and love I could give to you. And it's more than you ever dream, Snowbird. It's all yours, for your battles and your happiness."

The great pines were silent above them shadowed and dark. Perhaps they were listening to an age-old story, those vows of service and self-gained worth by which the race has struggled upward from the darkness.

"But I kissed you—once before," she reminded him. The voice was just a whisper, hardly louder than the stir of the leaves in the wind.

"But that kiss didn't count," he told her. "It wasn't at all the same. I loved you then, I think, but it didn't mean what it did today."

"And what—" she leaned toward him, her eyes full on his, "does it mean now?"

"All that's worth while in life, all that matters when everything is said that can be said, and all is done that can be done. And it means, please God, when the debts are paid, that I may have such a kiss again."

"Not until then," she told him, whispering.

"Until then, I make oath that I won't even ask it, or receive it if you should give it. It goes too deep, dearest—and it means too much."

This was their pact. Not until the debts were paid and her word made good would those lips be his again. There was no need for further words. Both of them knew. The soldier of the queen must be tried with fire, before he may return to kiss her fingers. The light burns clear in this. No instances of degeneracy, no exceptions brought to pass by thwarted nature, can affect the truth of this.

And Rains Came

In the skies, the gray clouds were gathering swiftly, as always in the mountains. The raindrops were falling one and one, over the forest. The summer was done, and fall had come in earnest.

The rains fell unceasingly for seven days: not a downpour but a constant drizzle that made the distant ridges smoke. The parched earth seemed to smack its lips, and little rivulets began to fall and tumble over the beds of the dry streams. The Rogue and the Umpqua flooded and the great steel-head began to ascend their smaller tributaries. Whisperfoot hunted with ease, for the wet shrubbery did not crack and give him away. The air was filled with the call of the birds of passage.

All danger of forest fire was at once removed, and Snowbird was no longer needed as a lookout on old Bald Mountain. She went to her own home, her companion back to the valley; and now that his sister had taken his place as housekeeper, Bill had gone down to the lower foothills with a great part of the livestock. Dan spent these rainy

days in toil on the hillsides, building himself physically so that he might pay his debts.

It was no great pleasure, these rainy days. He would have greatly liked to have lingered in the square mountain house, listening to the quiet murmur of the rain on the roof and watching Snowbird at her household tasks. She could, as her father had said, make a biscuit. She could also roll up sleeves over trim, brown arms and with entire good humor do a week's laundry for three hardworking men. He would have liked to sit with her, thru the long afternoons, as she knitted beside the fireplace—to watch the play of her graceful fingers and perhaps, now and then, to touch her hands when he held the skeins. But none of these things transpired. He drove himself from daylight till dark, developing his body for the tests that were sure to come.

The first few days nearly killed him. He over-exercised in the chill rain, and one anxious night he developed all the symptoms of pneumonia. Such a sickness would have been the one thing needed to make the doctor's prophecy come true. But with Snowbird's aid, and numerous hot drinks, he fought it off.

She had made him go to bed, and no human memory could be so dull as to forget the little, whispered message that she gave him with his last spoon-

ful of medicine. She said she'd pray for him, and she meant it too—literal, entreating prayer that could not go unheard. She was a mountain girl, and her beliefs were those of her ancestors—simple and true and wholly without affectation. But he hadn't relaxed thereafter. He knew the time had come to make the test. Night after night he would go to bed half-sick from fatigue, but the mornings would find him fresh. And after two weeks, he knew he had passed the crisis and was on the direct road, to complete recovery.

(TO BE CONTINUED.)

New Uses for Corncobs

O. R. Sweeney, head of the chemical engineering department of Iowa State college, in experimenting with corncobs has found several new uses for the by-product formerly used mainly for pipes and fuel.

The most important use discovered thus far is the manufacture of furfural, a highly desirable product used in the dye industry. Since this industry is being established in the United States the new by-product has a great commercial value. Another use is in making charcoal of the quality used in the sugar refining industry. Dr. Sweeney is working to develop other uses for the cobs.

Hold Your Grain

Don't sacrifice your crop—the result of a year's hard work. If you have grain on hand, don't sell it until you hear from us. If you want to hold it for an upward trend of prices as the season advances, we will give you cash help through your spring and summer work.

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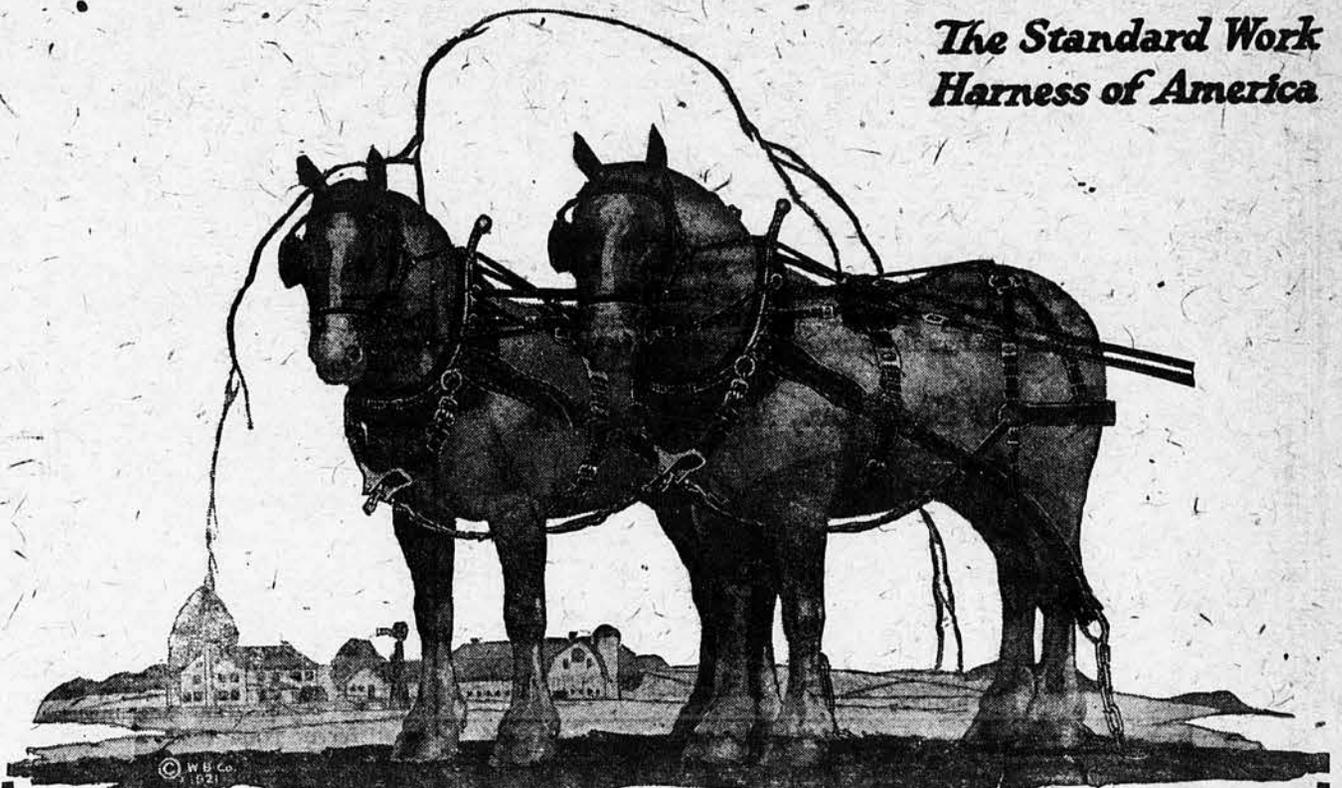
We have made arrangements for all the money you need and have set aside a large part of our capital as a reserve for farmers to draw on. We will advance to you—in cash—\$1.25 a bushel on wheat, 35c on corn and 25c on oats. You select your own market—sell when you please. No risk at all. It's a fair, square plan by which thousands of farmers are getting the ready money they need and can't find elsewhere.

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Investigate us. Just send your name and address—a card will do—and we will forward gilt-edged business references and explain our plan. Judge it squarely on its merits and make your own decision. We may be able to save you thousands of dollars and turn your losses into profits. Write us today.

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Better leather cannot be put into harness. It is the only harness made in which rustless bronze is used in making the hardware. Workmen with long years of experience and machinery of the newest type are employed to manufacture it. It is doubly inspected to insure perfection in material and workmanship. Every effort is put forth to manufacture a harness that will live up to the reputation of being "The Standard Work Harness of America."

THE BOYT HARNESS will give from twelve to twenty years of troubleless service—much longer with good care. Divide the cost by the years it lasts, and it is the least expensive harness made. Its simple construction will appeal to you. No frills to puzzle or get out of order. It is built as well as harness can be built and, because of large production, is priced 15 to 20% lower than harness of anywhere near the same quality.



The Boyt Harness is the only bronze trimmed harness on the market. Bronze is one of the toughest metals known. It does not injure leather through contact with it. Ease of strap adjustment in bronze buckles is assured by the fact that bronze does not rust.

It will pay you to look up the BOYT dealer in your community. He will be glad to show you THE BOYT HARNESS and go over its many exclusive features with you. To be sure of getting the genuine, look for the name BOYT stamped on the bronze buckles.

Get better acquainted with THE BOYT HARNESS. Write us today, giving the name of your dealer, and we will send you our newest circular which describes this harness in detail.

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Mayer Honorbilt Work Shoes

MADE of honest leather, "Built on Honor" by skilled workers, *Honorbilt Work Shoes* will give double the wear of ordinary shoes.

Suitable for every kind of work on the farm too. For the leather in *Honorbilt Work Shoes* is double tanned to resist the alkali in the soil and the leather-eating barn yard acids.

And you will find these long wearing shoes always soft and easy on your feet. Wet work will not make them hard; they stay pliable and comfortable with the roughest use.

Honorbilt work and dress shoes, for every one in the family, are sold by leading dealers everywhere. All bear the *Mayer Honorbilt* trade mark—a guarantee of quality that never fails. Look for it on the soles and if your dealer does not handle *Honorbilt Shoes* write us.

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The food ordinarily tramped into the ground will soon pay for a concrete feeding floor. Every grain goes into the animal. A curb around the edge of the floor will prevent the grain being pushed off to the ground. A gutter and drain connecting with a concrete manure pit will give rain and sun a chance to keep the floor clean and save the rich liquid fertilizer. Ask your dealer to get our Permanent Farm Improvement Book for you.

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Farm Engineering

By Frank A. Meckel

A NEW organization, the first of its kind in the country, recently has been developed in Columbus, Ohio. It is called the Agricultural Engineering Company and it is designed to be of service to farmers who find themselves in need of expert engineering service on the farm.

The company is composed of four very efficient agricultural engineers who are prepared to give advice about farm buildings, planning and mapping country estates, planning and supervising drainage systems, water systems, and installing farm power plants, whether for gas, steam or water power plants.

The farmer is coming more and more to realize the value of engineering in his farm work, and to know that a job done right and accurately the first time will mean a big saving. He knows better than ever before, that when he needs to have any drainage done, it should be done with the engineer's precision, and for such work he needs the engineer.

It is significant that this company has seen the light and has organized for the purpose of serving agriculture. A ditching machine has been purchased and the company is prepared to undertake large drainage jobs. The landscaping and architectural work is carried and conducted by men who understand their business and who have been at it for many years.

Why Study Farm Machinery?

Progress in civilization depends on having every succeeding generation produce more than the preceding one. From an agricultural viewpoint, this means greater production to the man and not to the acre. The tractor, to a great extent, has been responsible for the fulfillment of this ideal. However, those machines, necessary to successful seeding, tillage, and harvesting operations, have an equally important part to fill. Effectiveness in agricultural production demands the use of labor-saving equipment. Effectiveness in the use of labor-saving equipment requires something more than a superficial knowledge of that equipment.

The construction, operation, and adjustment of machines, drawn or operated by the tractor, must necessarily be different from those drawn or operated by horse power, because we expect them to do heavier work under more trying conditions, and the pull of the tractor is not similar to that of the horse. Any good four-horse team could, in case obstructions were encountered, pull a machine to pieces, yet they seldom do because they will not exert their maximum power before the driver has had time to observe the trouble.

It is an imposing sight to see a large plowing or harvesting outfit working under favorable conditions, however, we do not always have these favorable conditions. Varying climatic and soil conditions require different adjustments or methods of operation if the best results are to be obtained. Our knowledge of the old horse-drawn tool will stand in good stead at this time, but it will not be sufficient.

If we are to get the greatest returns from the capital invested we must decrease the cost of production. To do this one must understand the relation of the machine to the soil and the crop produced. It is not only essential that the operator understand how to make the adjustment required, but he should also know why a certain adjustment will produce the desired results. He should know what conditions or factors will produce other known conditions so that he can differentiate between them. He will thus be able to facilitate operations by being able to meet and solve the problems that continually come up. The ability to solve these problems does not mean that the operator be an expert mechanic, a soil physicist, or an expert on crop production. Most of the problems if studied singly are not so perplexing. If every problem should be given a careful diagnosis, such as a doctor gives his case, less time, energy and money would be

spent than by the old "hit or miss" method of adjustment.

A knowledge of the construction, operation, and adjustment of farm machinery is not only essential to the farmer, but also to the dealer, who, if he intends to make a satisfied customer, should be able to explain the constructional details and the methods of operation of the machine. He should know how every part functions, and what the relation of that particular part is to the machine as a whole.

The question may be asked—where is one to obtain this information? There are no books written that can convey to the reader all the desired information. No writer of instructions can call to mind all the different conditions that must be met. However, there are instructions and information that cover the field in a general way, and from these the solution to a particular problem may be suggested. The agricultural colleges throughout the country offer regular courses of instruction in farm machinery, supplementary to these courses, short courses of instruction are offered throughout the year. The extension departments, farm papers, and the manufacturing concerns are other reliable sources of information.

H. F. Driftmeier.

Manhattan, Kan.

Tractor Man in the Making

I thought I would tell about what we have done with our tractor. We certainly have made it pay. We have plowed 70 acres and double-disked it twice, and have pulled hedge and run a threshing machine with it. We also seeded our land with the tractor last fall. We plowed 10 acres a day and disked 20 acres a day.

We could not get along without our tractor on our 210-acre farm, for it works so cheaply. We used a gallon of gasoline to plow an acre, and a gallon of oil will run it all day long. We were able to plow when everyone else said it was too hard, but our rig kept chugging right along. I am a boy 15 years old.

W. H. Rees.

Bourbon County.

Town Water Works

Please give me all the information you can in regard to getting water works in our town. We will have the pipe it about 3 miles. Where can I get information as to cost, and the best method of carrying out this project?

Windom, Kan.

J. C.

This is a proposition which probably will be taken up thru the city council or the property owners of the town. It would, no doubt, be best financed by a bond issue and the work let put on contract with a man who makes a business of installing water works. It is a difficult thing for one man even to estimate the price which another man may place on his work, so I should prefer leaving this matter to the man who takes the contract. The best plan would be to outline your project, and then call for sealed bids on the work from various contractors. This would create some competition and you could, no doubt, get several bids on such a piece of work. No doubt the biggest job would be in getting the project across with the home folks. The best arguments for a water works in any town are that insurance rates could be materially reduced, perhaps reduced sufficiently to pay the interest on the bonds or even more, and the fact that the health of the community would be safeguarded in a better manner.

The attorney general of the state, whose office is at Topeka, can, no doubt, give you some assistance in drafting your financing plan, and advertising in several papers of the larger cities would, no doubt, bring you the contractors' bids.

The rational use of the proper kind of oil or grease will greatly increase the wear of shoe leather. Boots and shoes, especially those worn on the farm, should be oiled or greased whenever the leather begins to harden or dry, or when it does not turn water well. The purpose of doing this is to make the boots last longer, and to keep the feet dry and comfortable.

Jayhawker's Farm Notes

By Harley Hatch

THE present winter has been remarkable for the lack of wind. I cannot recall a winter of the last 30 years in which the amount of the wind was so low. But with spring just at hand, the wind is beginning to blow and we presume that what we have lacked in wind volume will now be made up to us. We have been husking corn out of the shock more or less during the last week but since the wind began to blow it has not been very pleasant work. On one or two days we had to hunt the most sheltered spots in order to husk in any peace. The field on which the shocks stand lies near the creek and it is sheltered on both the south and west by a good belt of timber. Both corn and fodder grew very large and many shocks are loaded to the guards with corn. It is very pleasant to husk such big ears but the ground clears very slowly when one can husk but 12 to 14 shocks a day.

Normal Acreage for Oats

Altho we still have a very large proportion of our 1920 oats crop on hand we plan to sow the usual amount this spring if we can get the seed in the ground before March 20. At this writing it seems probable that a great deal of oats will be sown here even before March 1, which means sowing will begin next week. We hope to begin sowing on the Jayhawker Farm at that time but the weather at this season is notably uncertain and our best laid plans are likely to be upset over night. Our crop of oats has been one of our best and most certain crops for many years and we often have harvested heavy crops of oats during the last 20 years when corn was a very short crop. In only one year of the last 15 and that was in 1915, have oats been a failure here. That was a notably wet year and all the oats were damaged by rust, making a yield of only about 10 bushels of very light grain.

Value of Certain Feeds

This is one of the few years when oats bring almost as much as corn, a local elevator pricing oats this week at 12 cents and corn at 45 cents a bushel. Usually oats are only about two-thirds the price of corn; when oats ordinarily bring 50 cents a bushel corn should be worth 75 cents but it is not that way now. The real feeding value of a bushel of oats is only about half that of corn but for horses we scarcely can figure it in that way as oats are so naturally a feed for horses regardless of what the food value may be. We have found that we can keep our horses, both old and young, in better condition on less grain when we feed oats and corn, half and half, ground rather finer than the ordinary corn chop. There is often a question as to the advisability of grinding corn for hogs and cattle but there can be none as to the wisdom of grinding feed for horses, especially when they are past 10 years old.

The New Reservoir

We finished the reservoir this week on which we have been working at intervals ever since corn husking ended. The dam crosses a run which at times carries a large volume of water. For this reason the dam was made with a base 50 feet wide; this dam is about 12 feet high now. The dam is built well above the surrounding surface so that the spillway should carry off all water before it comes within 2 feet of the top of the dam. A 2-inch pipe was put thru the dam at the start and this has kept the bottom drained during the winter. Yesterday this pipe was closed at the lower end and a strainer put on the end which is in the pond. We are now ready for a rain to fill the reservoir which should hold a large amount of water.

Getting Ready for Spring Crops

Last spring we had all our ground for oats fall plowed. This spring it is all corn or kafir stubble and it will have to be double-disked and harrowed before sowing. If one double-disking will not fit the ground we will go over it again. We have a tandem disk to go with the tractor and it does not take

long to fit a lot of ground for sowing. There is still a great deal of fodder to move off the ground where the oats are to be sown and this will take longer than the work of fitting the ground and sowing the oats. Fitting the ground may take more work this year as the corn and kafir stubble is very large. But one good double disking should loosen the stubs so that a cross harrowing will fit the ground for the drill. We will use home grown seed of Texas Red oats and sow with a disk press drill at the rate of 2 1/4 bushels to the acre. Few oats are now sown broadcast here, especially since our springs have been dry as those of the last five years. In a wet spring there is probably not much gained by using a drill to sow oats but in a dry spring there can be no question but that the drill is much the best.

The Farm Water Supply

We now have two reservoirs on the 400 acres which now comprise this farm. We have this water supply in addition to the creek which flows

thru the farm not counting two wells. This should insure us plenty of water even in the driest season, not only for stock but enough to irrigate a truck patch of good size. Our reservoir is 20 feet lower than the buildings and could not be used for irrigation except by pumping and that would not pay. Our main dependence on a future supply for irrigation purposes is in the new reservoir just completed. Our plan is to lay a pipe to this reservoir just as soon as the price reaches a level where we can afford it. We have a pipe leading to one reservoir thru which water is pumped to three tanks placed in different yards. This pipe was laid 16 years ago and it cost at that time 7 cents a foot. When the cost of pipe again reaches somewhere near that level we will endeavor to connect up with our new reservoir.

Our Best Three Offers

One old subscriber and one new subscriber, if sent together, can get The Kansas Farmer and Mail and Breeze one year for \$1.50. A club of three yearly subscriptions, if sent together, all for \$2; or one three-year subscription, \$2.

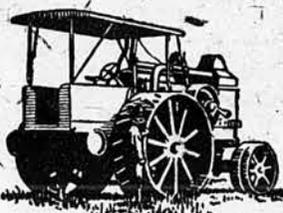
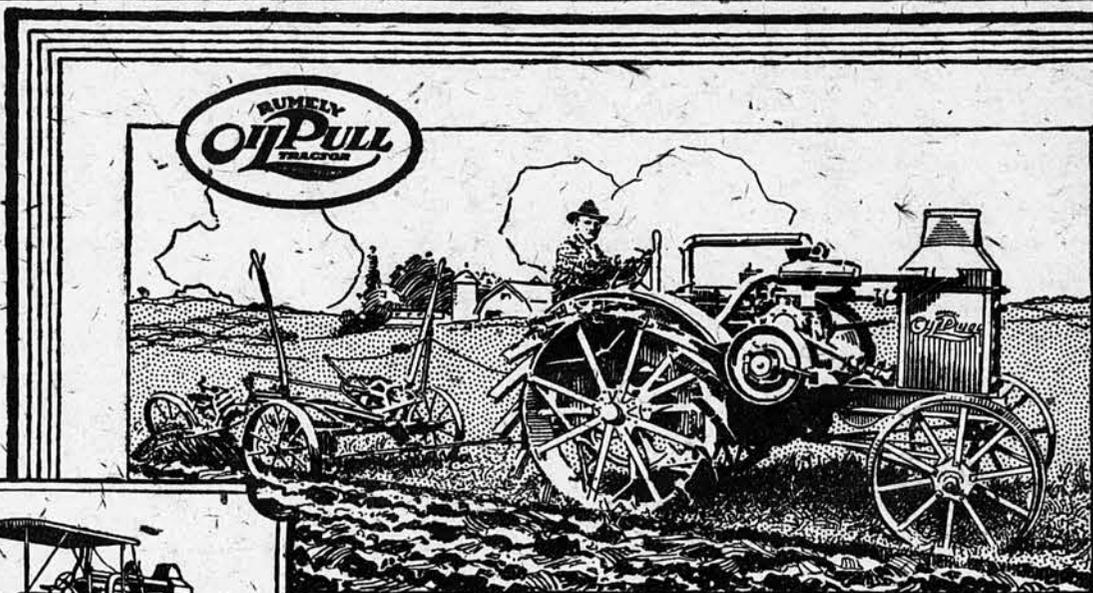
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Your earning power when it rains is made sure



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Proving OilPull Power

After 8 years of hard plowing, threshing and road work, my OilPull is in such good shape that I would not trade it "even up" today for a new tractor of any other make. It always has more power than I need, even on the toughest jobs. It has given no trouble and I am positive it will easily last 15 years more.

H. L. Miller, Cannon Falls, Minn.

—And From Your Section

We find that our 20-40 OilPull tractor has the power to perform more work in the field than 3 men and 18 horses. It costs less than the horses for corresponding work to say nothing about the saving in wages of the two extra men required with the horses. The OilPull is built right, runs right, burns cheap fuel economically and is thoroughly reliable and durable.

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THE investment you make in a tractor is chiefly to secure increased power on your farm. The power to plow more and deeper and faster—the power to operate your own thresher, shearer, silo-filler, etc.—the power that saves your horses, relieves your help, speeds up the whole program of farm work—power that decreases production costs and increases farm profits.

And it is the great power and great reserve of power that enables the OilPull to do all ordinary farming jobs with ease and constant dependability and, in addition, to be fully equal to the extraordinary jobs—to work over hills, to operate steadily in toughest sod, to thresh tough, wet grain.

Indeed, it is largely its power—its ability to perform the hard jobs easily—that accounts for the unequalled length of life for which the OilPull is famous.

To all this is added an unequalled record of economy that makes the OilPull cheapest in cost per year of service, despite the mere selling price of any tractor. It is guaranteed to burn kerosene under all conditions. It is oil-cooled. Two distinct lubricating systems—mechanical and splash—operating simultaneously, insure positive lubrication.

The Advance-Rumely dealer in your locality will be glad to supply all the information you desire about these or other features of the four sizes of the Rumely OilPull tractors, or about the five sizes of Rumely Ideal threshers. See him or write us.

ADVANCE-RUMELY THRESHER COMPANY, Inc., LaPorte, Indiana
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ADVANCE-RUMELY

Our Kansas Farm Homes

Mrs. Ida Migliario
—EDITOR—

All of the Contest Letters Were Good. Here Are Some of Them

[Prize Letter]

EVERY normal child, under ordinary circumstances, turns naturally to its mother with trusting confidence from babyhood. It is not necessary for her to do anything to win it in the first place, for it is one of nature's sure rewards for the trials she has endured to give it life. She must, however, be careful how she guards that precious treasure—confidence—for a few rebuffs will kill it in the heart of a sensitive little girl or boy.

One great mistake we mothers make is in being too busy to give attentive ears to the joys and griefs of our very little folks. Whatever it is that claims



Her Confidence is Worth Keeping.

their interest, they want mother to see and be interested, too. These little things seem trivial to us, and we think the work we are doing must be done, so when the little one begs, "Mother, do come and see," mother must finish ironing that shirt or getting the pie in the oven. The little hurt heart draws a long sigh and the interest in its joy is lessened at least by half. A few more rebuffs he will stand, but after a while, finding mother always "too busy" he will cease to bother her with his confidence and transfer it to someone who cares.

In order to keep that wonderful gift, my children's confidence, I had to give up one of my most cherished ideals, that of being a perfect housekeeper. Sometimes when the children were small, that shirt did not get ironed until next week, and that pie never reached the oven, and many other pieces of "essential" work went undone, but I made it a rule that when a shining pair of eyes and a pleading voice called, "Mother do see what I've found," to drop everything to go and see, and also to show some interest in whatever it was that meant so much to my little child. This rule has established and cemented our friendship as nothing else could have done.

As the children grew older and had graver interests, I realized that youth must have liberty and that my daughters in teens would have pleasures and fancies that I had outlived. At this time I began to ask their advice on affairs of some importance to me, and followed their suggestions when consistent to do so. The human heart, at any age, opens to the heart that opens in return.

I never repeated to anyone anything that my girls told me as a secret, and they have opened their hearts to me and sought my counsel. I believe they think of me as a friend to whom they may go on any occasion.

I recall one incident. Girlie had done a thing on the impulse of the moment which, tho not exactly bad, was decidedly imprudent, and to my more

mature mind, quite silly. I intended to give her a severe lecture on propriety, and was only waiting for a suitable opportunity. That afternoon I cleaned the attic and found a packet of letters I had written to the boy who is now Girlie's father. Looking at the dates, I saw they were written when I was about the age of Girlie. I read every word of them. Did she hear that lecture? I should say not!

That night, I took her in my arms and said, "Dearie, I used to say and do some silly things when I was your age." Then the flood gates opened and she told me all about it, and I was able to help her over a place that might have been dangerous. I could not have done this if I had only had her half confidence.

When the girls consult me about anything, I try to advise as a friend who has lived longer in the world than they have.

Mrs. P. C.
Decatur Co., Kansas.

Bread Making is Easy Now

[Prize Letter]

When I have plenty of good bread on hand, I consider my cooking problem half solved. We use a great deal of bread, and toast or bread and milk often make a meal for us. During the war, when every baking was a new experiment, I patriotically blamed my bread mixer for my poor bread and set it back on the shelf as another example of getting a poor deal. This fall I decided to give it another trial. And I am certainly satisfied with results.

I scald my flour and set the sponge in the mixture in the morning, add salt and flour, turn three minutes, put the lid on and let the sponge rise. Three revolutions of the handle works the sponge down. Then I form it into loaves, let them rise and work down once.

The mixer saves time, makes it unnecessary to use the hands in mixing, saves labor spent in kneading, makes an even grain and provides a closed container for rising. The pan is no more difficult to wash than an ordinary milk pail. The mixer, a curved smooth rod, is the only other part that comes in contact with the dough. The crank clamp and the lid merely need wiping and scalding to clean.

A bread mixer is not an expensive machine. There is nothing to wear out or get out of commission about it. It is just a practicable utensil, and I do not believe many women would be without it if they once gave it a fair trial.

Mrs. T. H.
Montgomery Co., Kansas.

Fun for Old and Young

[Prize Letter]

I believe our community is as much alive as any place can be. Most of our good times are connected with our country church. It has a ladies' aid society with a large number of members who frequently give a social for their families. But the liveliest organization of all is the young people's society. We started with just a few members and some of them were so timid they could scarcely read the slips handed to them on Sunday evening. But we have increased our membership to between 40 and 45 members, and there doesn't seem to be a timid one left; and there is not a shirk in the bunch.

We enroll the older people as honorary members. They help us with our programs when we have a subject that we like to have an older person's views upon. After our evening program, we invite any of them to give their views on the lesson. The young married people are included in the society, also.

I believe you would like to know how our splendid society is conducted. We

have a middle-aged married woman for our president and a woman about 27 years old for vice president, but the rest of the offices are filled by younger people. We use the quarterlies for young people's societies published by our denomination. The program for every Sunday in the year is outlined in the quarterlies. The president appoints the leaders a week ahead of the time they are to lead.

Nothing creates more interest in any organization than rousing contests. We have them frequently, followed with a social which is usually given in the community hall not far from the church.

The young people are divided into two groups with a captain for each group. Each side is given different colors and a name. One group leads one Sunday night and the other group the next, with a different leader every Sunday. We are allowed a number of points for being on time for the service, so many for new members (who must come three Sundays in succession before they are taken as a member) and points for various other little things that create interest. The losing side must entertain the winners.

The small folks are in our society also, and are called our Sunbeams. They have a teacher all their own. There also is a Junior society in the church.

We have a social once a month at the home of a member, and everyone who can, comes. Interesting games and stunts always are planned for these socials. I know any community would enjoy a society such as we have. An entertainment in town on social night cannot take any of us away from our gatherings.

Mrs. N. F. H.
Harper Co., Kansas.

Sleeping Porch a Comfort

One of the greatest comforts to be had in a home, in my opinion, is good floors. Linoleum for the kitchen and dining room, and hard smooth floors either oiled or varnished for the other rooms with rugs not too large to be handled easily, save the housewife much labor. Then with an oil mop it

With the use of canvas curtains, I sleep there comfortably thru the most severe storms of winter. Of course, it is necessary to have a good warm bed, a heavy night dress or pajamas, also stockings and a good warm hood. Then, if you have a warm bathrobe and a pair of warm slippers handy, you will find it is not half bad to sleep out of doors in the winter. I enjoy it, and think that any one, sick or well, is greatly benefited by the pur fresh air.

Mrs. H. H.

Greenwood Co., Kansas.

Daughter Turns to Mother

[Prize Letter]

Some mothers bemoan the fact that their daughters do not confide in them. That is because they did not begin right; the mothers alone are to blame. I never had to gain my daughters' confidence. I always had it. I taught them from infancy to come to mother with everything. I knew the little hearts had to have an outlet, and I realized that there was no one more vitally interested in their welfare and happiness than I.

I encouraged them to tell me of all their pleasures and disappointments, and as they grew older, it seemed to come natural for them to tell me everything. I always rejoiced with them in their good times, and sympathized with them in their disappointments. When they were young women they still came to me for aid, as I never allowed them to grow away from me.

Sometimes they asked me questions I could not answer at once. When they did that, I asked them questions to get all the light on the subject that I could, then I told them to dismiss the matter from their minds and I would tell them later what to do. And I always did. When I was alone I studied the problem, going back in memory to my own girlhood, when life seemed a bright ray of sunshine. I thought of the silly things I had done and said, and I made great allowance for my daughters' ignorance and innocence. Then I advised them the best I could, and it always turned out all right.

My daughters were not butterflies.

"Thank You" for the Letters

THE response to the call for letters on the subjects of "The Good Times We Have Had in Our Community," "How I Gain and How I Keep My Daughter's Confidence," and "My Greatest Home Comfort," was very gratifying. Every letter was full of first-hand information.

There were more answers concerning the subject of social life than either of the other two. All of the communities written about have excellent ideas concerning the right way to spend their play hours. They are working out their ideas with splendid success.

Mothers have a keen appreciation of the importance of gaining and keeping their daughter's confidence. According to the letters, numerous methods are used and every one is practicable and sensible.

Many devices were discussed in the home comfort letters. Household labor savers ranging from polished floors to pressure cookers and kitchen sinks to sleeping porches were described. However, many persons chose to give their ideas concerning the beauty of ideal home life, a phase of the subject of interest always.

The farm home editor wishes to thank the contestants for their excellent contributions.

is an easy task to keep the floors bright and clean.

But as my health is poor, my own greatest comfort is my sleeping porch. It is 10 by 14 feet, and is built on the east side of a small room which I use for a dressing room. The porch is boarded up on the north end, and the east and south sides are wainscoted up 3 feet from the floor and screened the rest of the way. There is a screen door in the south end, and two half windows side by side in the north end. The porch is light and airy, and is a delightful place to sleep in summer.

They helped with all the work on a large farm, and I always worked with them. We milked, churned, kept house and raised garden and chickens together. The girls also made their own clothes, and did a great deal of fancy work. They went to church and Sunday school and took a part in all the social entertainments of the neighborhood. And I aided them all I could.

Any mother can gain and maintain the confidence of her daughter if she has a heart interest in the daughter's happiness, both present and future.

White Co., Arkansas. Mrs. S. B.

Ideal Spring Wraps

9956—Women's and Misses' Wrap. A new type of dolman is designed in this wrap for spring wear. Sizes 16 years and 36, 38, 40, 42 and 44 inches bust measure.

9953—Girls' Wrap. The home dress-maker will find this pattern easy to



make and serviceable for the girls' spring wrap. It follows the popular dolman line. Sizes 4, 6, 8, 10, 12 and 14 years.

9951—Women's and Misses' Coat. The long waistline and snugly fitted upper section of this coat are features of the new spring modes. This pattern may be worn with a suit skirt to good advantage. Sizes 16 years and 36, 38 and 40 inches bust measure.

These patterns may be ordered from the Pattern Department of Kansas Farmer and Mail and Breeze, Topeka, Kan. Price 15 cents each. State number and size of pattern desired.

Teachers Favor the Hot Lunch

Here are some things Kansas teachers have to say about the success of the hot school lunch:

Miss Clarice Zirkle of Berryton, says: "I have learned that hot school lunches can be served with little work and expense."

Miss Ethel McGinty of Council Grove: "Children enjoy their food much more if it is served to them hot. Another advantage is the increase in sociability of the group."

"I had noticed children's lunches for several years and had observed they contain anything from cold pancakes and beans to a sack of candy and a pickle. I find hot lunches a wonderful help in discipline," says Mrs. R. H. Stewart of Lamar.

Farm Home News

BY MRS. DORA L. THOMPSON

It is both sad and surprising to note how many homes are destroyed by using kerosene to start fires, especially oil fires. We have seen a number of fire-lighting devices that might well be substituted for the free use of oil. One was really a lamp lighter, no longer in use. The asbestos lighter used for kerosene lamps, is not needed after the lamps are changed to the new type with a bend in the pipe. The old lighter soaked with kerosene burns for about 5 minutes, long enough to ignite small wood or cobs. One who saw such a lighter in use, manufactured a similar one by winding a stiff wire around a bunch of asbestos. He improved on the lamp lighter by making the handle a long stiff wire. At night this is thrust into the can of kerosene. In the morning the fire is built and the lighter placed under the whole.

On the same principle, but a little more trouble, is the use of small cobs soaked in kerosene. Two or three of

these taken from a can in the morning do away with any need for pouring oil on the wood or having the can near the fire.

A reader asks for a good recipe for curing beef. The recipe for corning beef that we have found very good is as follows: Seven pounds of salt, 1 pound of sugar, and 1 ounce of saltpeter in 4 gallons of water. This is sufficient for 100 pounds of beef. The easiest way of mixing the ingredients is to dissolve the saltpeter in a small amount of hot water.

The beef must be kept under the brine. In these proportions, there is not so much salt as in some rules, so the meat may be used without soaking. It does not keep well during warm weather, however. The brine is likely to become ropy or stringy. Before such a condition arises, it would be well to can the meat if there is any quantity to be saved. In such a case it would be necessary to soak the meat so it would be ready for use. It may then be cut into pieces convenient for placing in cans—gristle and bones removed. Cans, lids and rubbers should be sterilized, some soup stock or liquid placed in the bottom of the can and the meat packed not too tightly.

The time for processing given in our table is 3 hours in a hot water bath. More time would be a safe precaution. We have always given raw beef a 4-hour processing and have not found the meat injured.

Those who have large incubators to fill with eggs often find some trouble in caring for eggs if they save their own hens' eggs until they have enough. We read a good suggestion to help in this work. The writer said she filled an ordinary 30-dozen egg case. Instead of taking the eggs out and turning them over every day or two, she placed a block under one end one day and under the other end the next. In this way she kept the yolks from becoming settled in one place and kept the air cell in the larger end placed up.

Jolly Evening Gatherings

Our neighborhood consists of nearly a hundred inhabitants. The children attend several different schools, and most of the families belong to a church in the nearby town. Prior to six years ago, the neighborhood had nothing in common socially. Very few of us had more than a passing acquaintance with one another. Several of the women realized the lack of social unity and decided to organize a woman's club, so one afternoon, six years ago, they met and organized a club with 16 charter members. Ever since then the club has met twice a month at the homes of the members, taking them alphabetically.

The president of the club appoints a committee of three members every three months to plan and oversee an evening entertainment for the members of the club and their families. These evening gatherings are where the jolly times come in. Families meet families and old and young enjoy themselves. We have had many entertainments, Hallowe'en, Christmas, St. Patrick, and old-fashioned parties, and picnics and lawn socials. Our programs have been varied also, running from papers on science, art and music, down to negro minstrelsy.

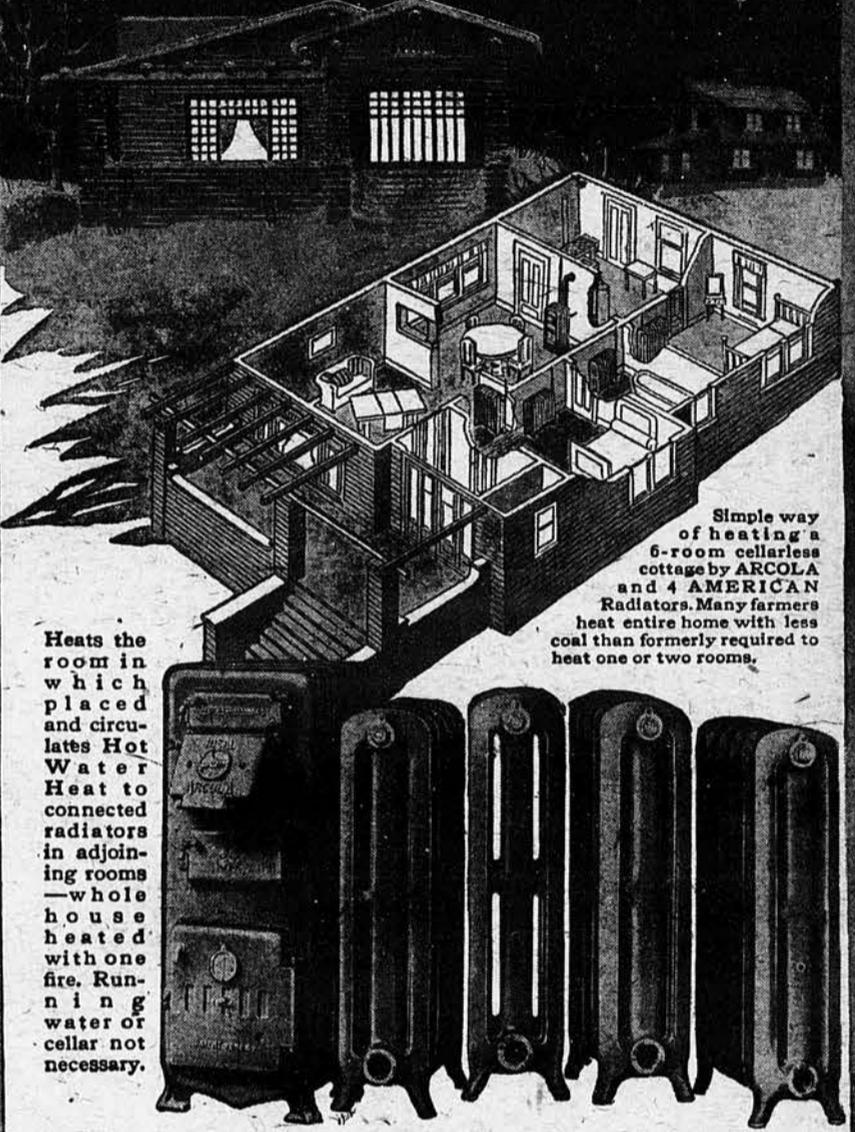
Of course, it requires effort to keep up a good community spirit, but we all are interested and work together splendidly. Our work has not always been just for the good of our circle, but during the war we did a great deal of Red Cross work and helped entertain hundreds of soldiers from Camp Funston as well as helping with other war activities.

Our young people are acquainted now and plan their outdoor sports together, such as skating parties in winter and hikes and swimming parties in summer. The surrounding country is ideal for outdoor sports. There are swimming holes, beautiful woods, hills with their crags and crannies, and running water with fish for the catching all around us. With all these fascinating haunts for the red-blooded country boy and girl it seems to me the moving picture shows stand no comparison.

Riley Co., Kansas. M. A. I.

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The spirits quickest to express
Life's highest aim, know well their claim
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Calumet Gold Cake Recipe

Yolks of 8 eggs, 1 1/4 cups of granulated sugar, 2/3 cup of water, 1/2 cup of butter, 2 1/4 cups pastry flour, 3 level teaspoons Calumet Baking Powder, 1 tablespoon of vanilla. Then mix in the regular way.

Women's Service Corner

Send all questions to the Women's Service Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Cold Tomatoes from the Can

Is it healthful to eat tomatoes just as they come from the can without first cooking them?—Mrs. E. W. R.

If the tomatoes have been canned carefully they are just as healthful when eaten cold from the can as they are after being cooked.

No Remedy for Shedding Muff

Would you please tell me what I can do to prevent the hair from coming out of my fur set?—A. R.

I can find no method by which you can prevent fur from falling out of a fur set.

What's What in Spring Styles

Would you please inform me whether skirts and dresses are to be worn short this summer? Will plaited skirts be worn? Are wrist watches still in style? Have ear puffs gone out and are "figure-eights" still worn? Will patent leather pumps or oxfords be worn?—Mrs. C. B.

The spring styles are featuring dresses and skirts that are full and short. Plaited skirts in plaids and stripes are shown. Wrist watches are still being worn and because they are so practical it will probably be a long time before they are out of style. Ear puffs are going out, "figure-eights" are being worn some and psyche knots are coming in again. The stores are displaying some patent leather pumps, and suede pumps with straps and suede oxfords. Combinations of dull kid and suede are good and of course the brown and black leather oxfords are still being worn.

Features That Appealed

[Prize Letter]

Our humble friend, the kitchen range, is not given so much credit by us housewives as it deserves. It should at least be worthy of our highest respect. What one household article is in more constant use or is more abused? Altho I have an oil stove, my range is probably my greatest home comfort the year around.

When I considered buying the range, its warming closet and reservoir appealed to me more than any of its other features. The reservoir, which is nickel plated, has a granite cover and lid. It rests on two easily removable slides so that it may either come into direct contact with the heater, or be removed from the stove to allow the water to cool. The reservoir makes an excellent cold pack canner as it can be placed on top of the stove. Its capacity is 15 gallons of water.

The warming closet is fitted with two sliding doors and has plenty of space in which to set food to keep it warm. On the back of the metal shelf are two shelf brackets which are use-

ful for holding various articles, such as a coffee pot. On the right side of the range is a detachable iron shelf which is a great convenience. Attached to the iron shelf is a nickel-plated towel rod which is handy for drying things quickly. The oven bakes well, and toast can be made quickly with a few dry chips or cobs as fuel. My range is used not only for cooking most of our meals, but also for heating a large basement kitchen. It is easy to hold fire in it if it is correctly regulated. The range reminds me of a stone house which is said to be cool in summer and warm in winter. The grate can be adjusted so that the range will burn either wood or coal.

For true comfort, the housewife should have the best range money can buy. It will be the most economical in the long run. I am proud of my range, and appreciate it all the more since it was necessary for us to forego some other pleasures in order to buy it.

Douglas Co., Kansas.

Unique Debate Questions

[Prize Letter]

I want to tell you about the entertainment we are having in our community this winter. A few of the enterprising folks met one evening and organized the "Eight Mile Literary Society." Quite a number of persons were skeptical as to the outcome, but we are all agreed now that it has proved a success.

Our school teacher, who is a clever young woman, arranged a short program for the first meeting. Then we had election of officers and after that a spelling match. Since then we have met every two weeks. We first have a program consisting of readings, songs, dialog and music. Then, after 15 minutes' intermission, we have a debate. Some of the questions we have debated on are, "Resolved, that a razor is of more use to a man than a hairpin is to a woman," and "Resolved, that old bachelors should be taxed, to support old maids."

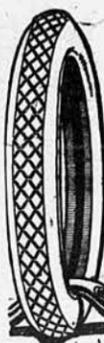
We have had no trouble to get the people to take part in the programs, and it is surprising how well most of them debate. Altho the school house always is packed, we have had the very best of order at all our meetings. People of all ages attend, and everyone seems to enjoy the meetings. Some come as far as 10 miles.

Our officers are a president, vice president, secretary-treasurer, marshal, critic and committee on programs. Our expenses have been small. One collection has been taken and another time some of the young women sold popcorn balls and candy and cleared quite a bit. We have enough money now in the treasury to pay our expenses the rest of the winter.

A literary society of this kind provides good, clean amusement, and I am sure any community would enjoy it.

Clay Co., Kansas.

Mrs. P. B.



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Whisperings of Spring

One of these days the kind south wind will journey
Up from his winter home; he'll softly, gently creep,
And over all the land he'll blow his warm breath,
To wake the things of Nature from their sleep;
And on his bosom feathered folk will travel
To their new homes, and as they glide along,
They'll call to their old friends, the leaves and flowers,
And bid them wake and listen to their song.

The silver, shining brooks will feel the velvet touches,
As ice and snow are driven far away,
Then they will wake and start their happy murmur,
And join their voices in the glad some lay;
Then one by one the leaves will stretch their fingers,
To garb their mother trees with verdure new,
The flowers will rise and nod their sleepy faces,
And bathe their heads in misty, morning dew.

And when the brooks and leaves and flowers,
Have wakened and are smiling in the breeze,
When birds are flitting here and there and singing,
The while they make their nests in friendly trees;
And when the old sun, smiling in the heavens,
Sets sunbeams dancing in their busy way,
Then Mother Earth has heard the south wind's whisper,
And ushered in her first bright springtime day.

—Rachel A. Garrett.

Health in the Family

BY DR. CHARLES H. LERRIGO

SERVICE in this department is rendered to all our readers free of charge. Address all inquiries to Dr. Charles H. Lerrigo, Health Department, Kansas Farmer and Mail and Breeze.

Medical Freedom

The more I know about medicine and its uncertainties the less I am inclined to insist that persons must comply with certain rigid requirements in regard to medical matters. So far as liberty of opinion can be given I believe in letting every man choose for himself in matters pertaining to his health and the health of his family.

But this liberty of opinion must be halted at once if it infringes on the rights of his neighbors. There are some things that years of experience have shown us to be true. We know, for example, that if a child with scarlet fever or a man with smallpox mingles freely with the public, the inevitable result will be that many persons will soon be suffering a tremendous amount of sickness and sorrow and even death and all of it unnecessary. We cannot yield to any person the right of liberty of opinion, if he has an opinion so far opposed to experience that he would insist upon going at large when afflicted with such contagious diseases.

So we have to make certain rules and we have to delegate some authority to see that these rules are observed. It is a delicate job, an extremely delicate job. We should insist that our health officers be of the very best material. And we should remember that such work is sure to entail occasional differences of opinion that may sometimes put a strain upon our loyalty. Nevertheless we should be loyal and fair.

Questions and Answers

I have been bothered with a skin disease for the last three winters. It begins just as soon as cool weather comes in the fall and lasts until warm weather comes in the spring, then it leaves my skin. It is on my lower limbs and extends up to my waist and on my arms. It looks like red pimples just under the skin and itches terribly when I get warm. MRS. R. H.

This is not uncommon and in many cases is due to the inactivity of the oil glands of the skin. Rubbing the skin once daily with a small amount of olive oil will be very helpful.

Concerning Moth Balls

Please tell me whether moth balls are injurious to a person when kept in a trunk in a bedroom and in what way will they affect anyone? H. W.

There is no harm in the moth balls so long as they are kept in the trunk.

Thoracic Aneurism

Do you know of a case where a child had thoracic aneurism? Our little girl, almost 7 years old, seems to have it. She is well otherwise, her appetite is good and she sleeps well but has a cold quite often. Does it prove fatal or will she outgrow it? J. B. E.

Thoracic aneurism may occur even in a young child but is very rare. The outcome depends altogether upon the extent of the aneurism and its course. I think you should give your child the benefit of the most expert medical examination and advice that can be obtained as early as possible.

False Conception

What is false conception and is it dangerous? G. C.

False conception, or false pregnancy, also known as pseudocyesis is a delusion that sometimes attacks young women who have reason to fear a pregnancy, and occasionally is manifested also by older married women who do not fear but very much desire pregnancy. Under its influence the menses may cease, the breasts swell, and even abdominal enlargement occur to some extent. But after the delusion is relieved the symptoms disappear.

H. E. S.: The mere fact that you are 74 years old does not account for your dizzy spells. Seventy-four is no great age. The trouble is a frequent symptom of

high blood pressure and may be caused by something that can be relieved. It will be best for you to see your doctor, and while having other examinations made don't fail to have your eyes tested.

Hereford Sales in 1920

Records of public sales of Herefords for the year 1920 show that 14,432 animals sold for an average of \$414. Of this number, 862 animals were reported as selling for \$1,000 or more; 199 as selling for \$2,500 or more; 64 as selling for \$5,000 or more, and 19 as selling for \$10,000 or more. The figures are based on 264 auction sales

of which records are available and do not include cattle sold privately.

It is interesting to note that these 264 public sales were held in 27 states, with the majority in the Middle West. Of the entire number, 220 sales, or 83 per cent, were held in the states of Iowa, Nebraska, Missouri, Kansas, South Dakota, Minnesota, Indiana and Illinois. These states are among the richest agriculturally in this country and it is significant that pure beef-bred cattle should be produced in greater numbers here than elsewhere.

There were, during the year, 11 public sales in which the number of animals ranged from 42 to 120 head, that reported the averages on the entire offerings of more than \$1,000 a head. Nine of these sales were held in the states mentioned.

Belts for driving machinery often become impaired, if not useless, within a few years, even on straight drives. A good leather belt, suited to the work to be done and properly installed, will run for from 10 to 30 years.

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For Our Young Readers

Little Miss Aileen and the Bad Fairies

BY UNA MACK

ONE evening near the children's bedtime Bobby, Betty and Baby were playing "puss-wants-a-corner"; but they were not having so good a time as usual because 10-year-old Aileen was not taking part; instead



she sat apart moping and feeling very cross.

Presently mother looked at the clock and said, "Time little folks were in bed!" Then, taking Bobby and Baby each by the hand, she bade Aileen help little sister.

"I won't!" cried Aileen, at the same time flying past her mother and upstairs and into her room with such a "bang!" that Daddy dropped his paper. "Whatever is wrong with Aileen?" he asked.

"I do wonder," replied Mother. That night after everybody was asleep there sounded all thru the house the funniest buzzing noise you ever heard. It started in Aileen's room and awakened her. Aileen found herself sitting up in bed—her own little white bed—but not in her own room at all! The place looked strange—like a deep, dark cave. And from the crevices all about the blue-gray walls there fluttered great flocks of lovely fairies! It was this fluttering of thousands of little wings which had made the queer sound!

Aileen gazed entranced as the fairies gathered about their queen, who was a most bewitching small creature. Her robe was spun cobwebs and mist. Ropes of pearls like the tiniest drops of milk dripped from her neck and arms and from the girdle at her waist. A bandeau of gems encircled her head, a large diamond star above her forehead and another on the tip of her wand outshining all others and marking her the queen of the band.

Now Aileen never had heard that there are in this world some very bad fairies and that bad fairies, like bad people, are often more lovely than good ones. Therefore, how was she to know that these beautiful creatures were a wicked queen and her maids, whose business it is to get children into trouble?

"You are the most beautiful child on earth!" whispered one pretty fairy who sat lightly on a corner of the pillow, playing with Aileen's hair. "Far too lovely," exclaimed the queen, "to be a slave for inconsiderate parents and selfish children!"

"See," cooed a third, "how her poor hands are becoming coarsened by rough work!" And by the time every fairy had gotten in a word, Aileen thought herself an ill-used child.

"Now, go to sleep, my dear," said the queen presently, "but, remember, no more bothering your pretty head and spoiling your fingers over tasks." So Aileen closed her eyes and something like cool, sweet, wild-rose petals dropped upon them, and she fell asleep.

And when Aileen awoke next morning only the sunlight streamed in on her and everything was just as it had been when she went to bed the evening before.

But Aileen was not the same. When she jumped out of bed and looked into the mirror, she saw—not her own self—but a being even more beautiful than the fairies had said she was. "No," she resolved, "no more slavery for me!" And then without doing a thing to make herself neat she tripped down stairs.

Of course, Mother had no little daughter to set the table for breakfast. Daddy missed his little "right hand man." Sister had to cut paper dolls alone. Bobby ran away. Baby fell and bumped his head. But to none of these things did Aileen pay the slightest heed.

Weeks went by like this. The once lovable child became a nuisance and a fright. Big girl that she was, she was so careless of her appearance that Mother had to help her to be washed and dressed decently. But what puzzled everyone most of all was that no matter how untidy she was, she might be seen many times a day posing and primping before a mirror, seemingly very much pleased with herself.

One night, a good fairy, feeling that all was not right here, came to see what the trouble might be. She visited every member of the family. Then, coming to Aileen, she gave a sudden horrified start and cried, "Poor thing!" adding "but thank goodness, I am in time!" Then, like a flash, she snapped something from Aileen's eyes, making such a loud "smack" that Aileen sat right up, wide awake. And what do you think the fairy held in her hand—cool, sweet wild-rose petals? No, indeed! It was a pair of imp's spectacles!

Then the fairy whipped from her pocket a mirror which she held for Aileen to see herself. And what a scream echoed thru the house when Aileen saw that ragamuffin-chimney-sweep looking thing which was her own reflection! Mother and Daddy came running to see what the matter could be. And they understood and forgave their little girl.

The children were glad to have their playmate back again, and now Aileen tells them the story of the Imp's Spectacles; and she never fails to add, "But it never could have happened if I hadn't gone to bed in a grouch."

An Alphabet Rhyme

If you can complete this rhyme, send your answers to the Puzzle Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan. It's easy when you once get started. For instance, the missing word in the first line of the rhyme is "wise," the letter "y" being the 25th of the alphabet, and two of the letters sounding like "wise." See if you can find the other missing words in this manner.

- There is a farmer who is (25)
- Enough to take his (5)
- And study nature with his (9)
- And think on what he (3)
- He hears the chatter of the (10)
- As they each other (20)
- And sees that when a tree de (11)
- It makes a-home for (2)
- A yoke of oxen will he (21)
- With many haws and (7)
- And their mistakes he will ex (17)
- When plowing for his (16)
- He little buys but much he se (12)
- And therefore little (15)
- And when he hoes his soil by spe (12)
- He also sells his h (15)

Solution February 19 Puzzle—A Maze—Elephant. Hundreds of boys and girls answered this puzzle correctly, but the very first ones to get their answers in are Karl Ruteck, Oscar Sandell, Edward Coslett, George Anderson, Margaret Young, Irene Garten, Thelma Clark, Fern Lacey, Frances EATINGER and Edith Allen.

His Name is Sue

My pet is a white cat and his name is Dumb Sue. He isn't dumb, tho; he can't hear. But if he wants a drink he goes to the water pail and mews. In the mornings he comes up to my room and jumps on the bed to awaken me. Then we go down to breakfast together. He is a large cat and his white fur is as soft as cotton. He likes to follow me when I start out to school, which is a mile from the farm, and I must carry him back home again. It doesn't do any good to call him.

Katherine Poister. Dickinson Co., Kan.

Judgment

You use good judgment when breaking in a colt—the whip at the wrong time and a valuable horse would be spoiled.

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There is nothing like passing a good thing along, so as soon as you have read Kansas Farmer and Mail and Breeze, pass it along to your neighbor. It will be appreciated.

Letters Fresh From the Field



Farmers Discuss Many Interesting Topics

BY RURAL CORRESPONDENTS

FARMERS are urged to make free use of our farm letter page to discuss any topic that they consider of general interest. Short letters on feeding, marketing, rural credits, pro-fiteering, dairying and other such subjects are especially desired. Address all communications to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

A Welcome Visitor

The Kansas Farmer and Mail and Breeze is a regular and welcome visitor to our home. All of us enjoy it, father, mother, son and daughter. We have been taking it over a year and we have found no paper superior to it. As housekeeper I am especially interested in "Our Kansas Farm Homes" page, and I find much interesting and helpful matter there from week to week. I also admire Mrs. Velma West Sykes's efforts, "For Better Children", with "Better Homes" for our children and "Better Children" in our homes, why shouldn't this world be better off? The children are always anxious to look over the page devoted to the young folks and our boy is particularly interested in trapping. Mrs. S. M. Jones, Leavenworth County.

Makes Money With Sheep

About 10 years ago I got into the sheep business by bidding once too often on 10 ewes and 14 lambs, in May. The lambs were about 10 days old and some old sheep men told me I would get my money out of them in the fall if I took care of them. I sold the wether lambs and wool and had 10 ewes and four ewe lambs clear that fall. I have kept from 50 to 300 head ever since and will continue to do so as long as I farm. Sheep are the best stock on the farm, keep weeds down and will make money when other stock make you lose it. F. W. Dutton, Penasola, Kan.

Better Trade Regulations Needed

Undoubtedly Senator Capper has the heart-felt thanks of every farmer in America. I am an ordinary renter in Texas. The farm situation is, perhaps, worse even than you may think. I would not think of telling you of the expressions I have heard men make concerning the Washington Government. If members of Congress don't get together in some way and arrange for peace and trade relations with the world that will be just and fair to the farmers, there soon will be a crisis ahead that will be fearful to behold. J. R. Goodgame, Hamlin, Texas.

Unfair to Farmers

I quit handling poultry and eggs because I could not get as much for the finished product as I could for the feed and I got nothing for the work. The same is true of hogs. I now have only enough hogs on the place to produce my own pork and only enough hens to supply me with eggs. I haven't shucked for higher wages. I simply couldn't stand a losing proposition. Further, I will say that a farmer must farm cheaper if he stays on the farm. I could suggest a way of farming that would cost only about two-thirds as much but production would suffer in about the same ratio. The Government officials took an unfair advantage of the farmer when they fixed the price of wheat in the war and I think the grain gamblers are giving us a rotten deal now. The farmer never will get out from under this deal. M. Z. Chambers, Marysville, Kan.

Uses Silage for Feed

My silo was built in 1913. I used kafir and kafir for making silage but always take the crop which has the most grain. My silo is 14 feet in diameter and 45 feet high. It is supposed to hold 165 tons. I have bought silage the last three years and find

it does not hold out by weight. Sometimes it falls short by half. None will hold out to state measurement. I have fed silage to all kinds of cattle and milk cows, and I never have found anything equal to it. I don't keep a book account but I can tell whether there is a loss or gain. W. B. Shockey, Kiro, Kan.

Likes the Silo

I put up a silo in 1912. It is an Oregon Fir stave silo and cost me more than \$300. This silo's capacity was rated at 115 tons. It has given good satisfaction in keeping silage from spoiling, but I have had to watch

it when empty to keep it from blowing over. If I build another silo I will put up something more substantial of solid concrete or tile.

I have used corn mostly in filling my silo and it has always given satisfaction. I also have tried kafir and cane for making silage. Kafir makes a fair grade of silage, but does not equal Indian corn. Cane silage is of little value as it forms too much acid which will scour cattle especially young stock. As a rule corn ready to go into the shock is just right to go into the silo. If put in too soon it will make washy feed, but I have found that this will not affect older cattle so much as it will young animals.

We have not fed silage to any livestock except cattle but I have noticed that horses are greedy for it, in fact any livestock will eat it. Good corn silage is the cheapest, most economical and satisfactory feed on the farm whether it is fed to milk cows, growing stock or to beef cattle. Salina, Kan. A. R. Hogg.

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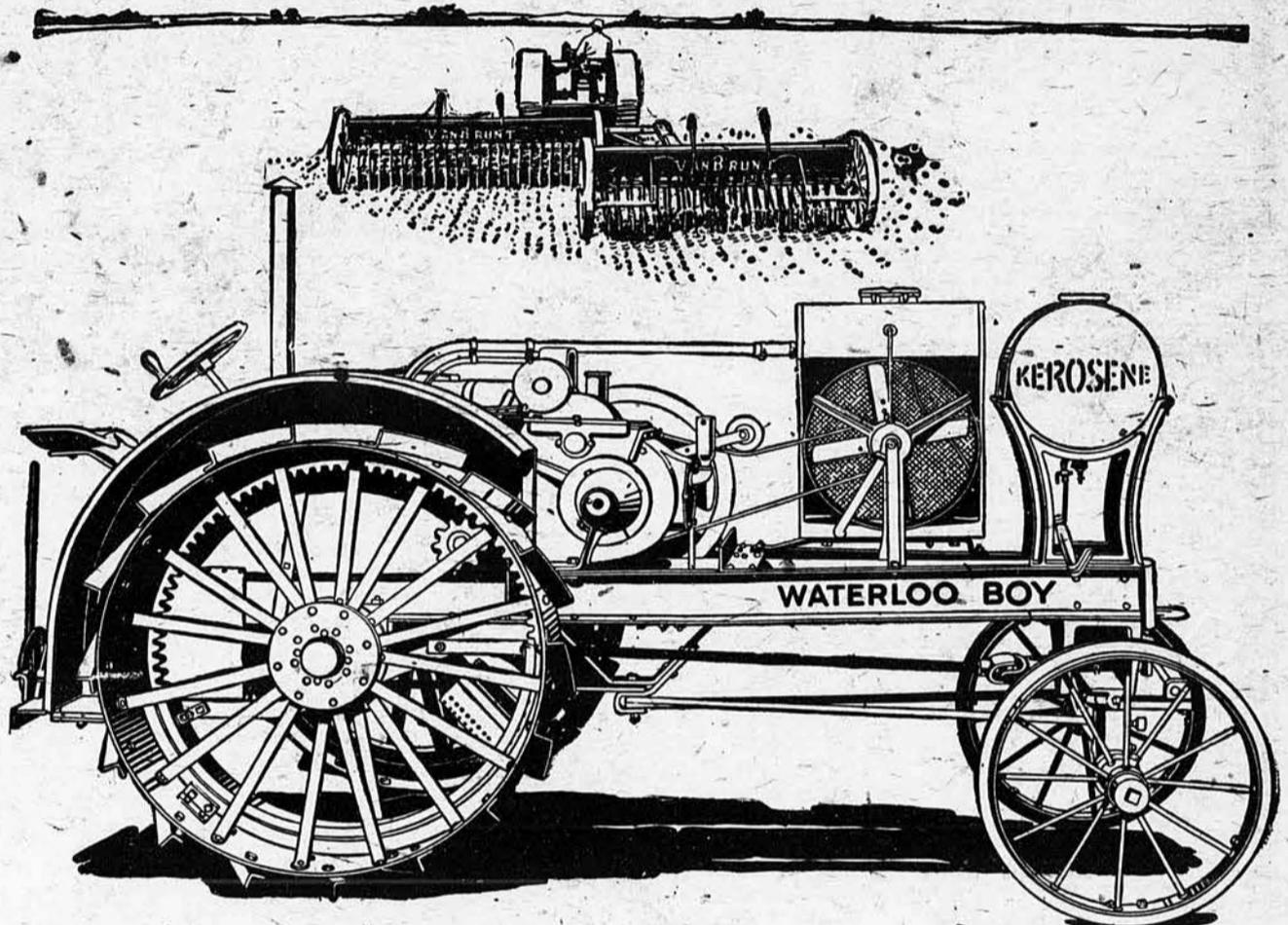
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Back in 1914 Mr. E. F. Rowe, a farmer living near Hampton, Iowa, bought a Waterloo Boy Tractor. It was one of the earlier models put out by its builders. Its gears were not enclosed, its bearings were of the plain type—it lacked many of the improvements found on the present Waterloo Boy.

Mr. Rowe used his tractor for all his field operations and for most of his belt work. In checking up his expense last fall, he found that he had spent but approximately \$5 for repairs during his six years of ownership. **Only \$5 for repairs during six years of dependable, efficient, service.** And it is still going strong.

This is but one instance of Waterloo Boy economy. There are many, many others. Improvements on the present Waterloo Boy make it a great deal more economical than the one Mr. Rowe owns. The gears are now enclosed and run in oil, Hyatt roller bearings at all important points reduce friction and add to its long life. Every feature of construction makes for economical up-keep and operation.

Find out what a Waterloo Boy Tractor will do for you on your farm. Try it out. Your John Deere dealer will be glad to co-operate.

The Waterloo Boy Tractor and the John Deere No. 5 Tractor Plow make a reliable plowing outfit.

Write for a folder describing the Waterloo Boy fully. Also ask for Better Farm Implements, a 114-page book illustrating and describing the John Deere full line of farm tools. It's free. Address John Deere, Moline, Illinois, and ask for Package WB-711.

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Capper Poultry Club

Perseverance Wins Out Every Time

BY MRS. LUCILE ELLIS
Club Manager

THE spirit to continue in a given course in the face of discouragements or obstacles; to pursue steadily the project or course begun—that's perseverance. Shakespeare says that it is one of the kingbecoming graces. And the person who perseveres is always rewarded, sometimes by other folks, but always by an inner consciousness of a task well done.

The word, king, makes me think of the fairy stories I used to read when I went to school. There always was a kingdom, a ruler and the folks who were subjects of the king. Whenever one of these subjects did some worthy deed the king promoted him. Now don't you think it would be fun to pretend that the counties in which there are Capper-Poultry club members constitute a little kingdom of which I am ruler? All of the members will be my willing subjects and whenever they do something especially worth while, such as lining up other girls, they will be promoted to a position of honor. A place on the honor roll will be the first reward for good work, but the girls who are appointed leaders will hold very high rank indeed. Following is a list of those who already have won distinction. Shall we call them maids of honor?

The Honor Roll

Carrie Mae Smith, Wallace; Elizabeth Moore, Harper; Mrs. J. E. McGee, Linn; Grace Hovey, Cowley; Orpha Jones, Leavenworth; Madeline Berry, Rice; Esther Evans, Rooks; Annie Anderson, Rooks; Irma Swanson, Wallace; Ella Conwell, Shawnee; Mildred Ungeheuer, Linn; Nellie Powis, Linn; Alice Pressnall, Republic; Claire Jamison, Cloud; Marie Rausch, Jefferson; Ruth Wort, Wallace; Esther Teasley, Cloud; Mrs. Leo B. Curtis, Linn; Louise Holmes, Leavenworth; Kormah Zirkle, Finney; Ethel Ellis, Coffey.

I want to tell you about an exceptionally fine case of perseverance. Elizabeth Moore was the only girl to line up as an active member in Harper county last year, but she became very enthusiastic about the work as the year progressed and decided to line up some team mates. By that time it was too late for girls to join as active members, but Beth went to work and got eight girls to enroll as social members. Every one of these girls is an active member this year, and the last recommendation necessary to complete membership in that county has just arrived.

"I know of five girls who are planning to be associate members, too," wrote Beth. "We've had one meeting and have chosen colors of black and gold." Beth's perseverance has won her the high office of leadership.

Annie Laurie Edwards of Morris county, Marie Rausch of Jefferson and Thelma Boyer of Safford are doing practically the same thing, and while they may not quite complete their membership this year, each of these counties has enough members at the present time to entitle it to a leader, and just wait till 1922. It just goes to show that one peppy girl with perseverance can do wonders when it comes to boosting the Capper Poultry club.

While many sales were made thru the club catalog which Mr. Capper got out last fall, a few poultry club members still have purebred stock on hand. They ask reasonable prices for their

birds, \$1.50 to \$5 for cockerels and \$1.50 to \$2.50 for pullets. These chickens are from some of the finest flocks in Kansas and every purchaser will receive birds which he will be proud to own. If you wish some good, standard-bred chickens, write to the member living nearest you and you will receive a prompt reply.

Black Langshans—Nola White, R. 2, Olathe, 2 cockerels; Helen Andrew, R. 2, Olathe, 4 cockerels, 10 pullets.

S. C. White Leghorns—Nellie Ford, R. 1, Linwood, 16 cockerels; Agnese Kiger, R. 2, Burlington, 10 cockerels; Beulah Madsen, Atwood, 3 cockerels, 24 pullets; Josephine Dunlap, R. C. Liberal, 5 cockerels; Elsie Wheeler, R. 2, Hartford, 1 cockerel, 3 pullets.

R. C. Brown Leghorns—Mrs. Dora Painter, R. 4, McCune, 12 cockerels.

S. C. Brown Leghorns—Mrs. E. G. Rambo, R. 2, Cambridge, 10 cockerels. White Wyandottes—Orpha Jones, R. 1, Linwood, 3 cockerels; Neva Rolph, R. 5, Concordia, 12 cockerels, 6 pullets; Erma Organ, R. 2, Grinnell, 5 cockerels, 10 pullets.

Silver Wyandottes—Elizabeth Moore, R. 3, Anthony, 5 cockerels; Hallie Huntington, R. 7, Paola, 20 pullets; Esther Teasley, R. 2, Glasco, 10 cockerels; Hazel Kerns, R. 1, Scott City, 4 cockerels.

Golden Wyandottes—Claire Jamison, Glasco, 12 pullets.

S. C. Rhode Island Reds—Henrietta Stanley, 1605 Fillmore St., Topeka, 6 cockerels; Mary Wheeler, R. 2, Hartford, 3 cockerels.

R. C. Rhode Island Reds—Vera Fairbairn, R. 7, Lawrence, 4 cockerels; Ruth Wheeler, R. 2, Hartford, 3 cockerels.

R. C. Rhode Island Whites—Pearl Morrell, R. 2, Blue Mound, 5 cockerels.

Barred Plymouth Rocks—Anna Greenwood, R. 1, Madison, 5 cockerels; Dorothy Dirks, R. 1, Wichita, 8 cockerels.

Buff Plymouth Rocks—Anna Painter, R. 4, McCune, 16 pullets.

White Plymouth Rocks—Florence Preston, R. 1, Gorham, 4 cockerels.

Silver Hamburgs—Grace Hovey, R. 2, Cambridge, 2 cockerels, 2 pullets.

White Orpingtons—Mrs. P. B. Dirks, R. 1, Wichita, 5 cockerels, 8 pullets; Kormah Zirkle, Garden City, 8 cockerels, 15 pullets.

"I sold six pullets and two cockerels to a woman in Oklahoma and she says she thinks they are great," wrote Carrie Kaufman of Coffey county. Letters such as this show what folks think of the chickens raised by our club girls. They're still winning prizes on them, too. Claire Jamison exhibited some of her chickens at Concordia last month and carried off four ribbons and a cash prize.

It doesn't take much time to fill out and send in the application but it would take a long time to tell the advantages to be gained from this small beginning. One little club member says that all you have to do to be successful is to hitch your wagon to a star, keep your seat and there you are. Remember that perseverance wins. I have enough faith in Kansas farm girls to feel sure that all of them have this quality.

Capper Pig and Poultry Clubs

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I hereby make application for selection as one of the representatives of

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(Write pig or poultry club)

Signed..... Age.....

Approved..... Parent or Guardian

Postoffice..... R. F. D..... Date.....

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A Big Place for Motor Cars

Automobiles and Trucks Helped Rural Life Greatly

BY FRANK A. MECKEL

THE MOTOR car has come into agricultural communities and into farming and it will stay there until something better and more efficient takes its place. Many a farmer who, 10 years ago, looked on the automobile as the surest and quickest means of ruin, may now be seen on the country roads in a motor car, and he is not doing it because he takes great pleasure in riding, but because he finds that the automobile is a valuable part of his farm equipment, and he needs it in his business.

During the last 10 years the element of time has come to play a most important part in every business in the country, including farming. Twenty years ago one could hire help at so much a month, then it went to so much a week, and then to so much a day, and now labor is hired at so much an hour. Years ago a carpenter would take a job of construction and stipulate his price on the whole job. Today he says he will work for so much an hour, and the quicker he can get thru one job and on to another, the more money he is able to make.

Likewise, a few years ago, if a farmer did not get back from town in time to finish a certain job on the farm, the job could wait until the next day. Time was not so important, because farming then was not on such a sound business basis as it is today. However, times have changed, and the more time a man is able to put in at his business, during the working day, the better off he will be. The less time he spends on the road between the farm and town, the more time he will have to put in at some constructive work on the farm, and the automobile has solved the time saving problem very well indeed.

Many a farmer who lived 15 miles from town would start early in the morning with a team and wagon, and make the trip to town. He had to stay over the noon hour and feed the team, and by the time he finished his trading and got back to the farm the day was gone. He had spent 6 or 7 hours of valuable time on the road, and the farm suffered accordingly. The bad feature of it all was that very often a trip to town was necessary when the time could not be well spared. The trip with a load had to be made when the roads were good, and this usually was the time when farming operations could be carried on to best advantage. The trip was hard on the man and horses, to say nothing of being rather rough on the business which was being more or less neglected while the owner was away.

Today the man with the automobile spends only 2 hours or even less than that on the same road which he used to travel in 7 hours with a team, and now he is saving 5 hours, or a good half day for work on the farm. He also is doing the traveling on the road more cheaply than he did with horses. He is saving time, and time is money. His time can be valued at 50 cents an hour, for if it is worth anything at all it is worth that much, and if he can save 5 hours on a trip to town, he can save \$2.50 every time, and in a year this amounts to a considerable sum.

Many persons may insist that a farmer with a passenger car cannot do the hauling which he did with the team, which is true, but in speaking of automobiles the truck is included, and it is certain that a man can haul as big loads in much less time with a truck than with a team. And he can carry quite a load in the passenger car, also. Many a trip used to be made to town with horses when nothing more than a few groceries were brought home, and groceries can certainly be hauled in a passenger car without damage. Of course, if the car is a high-priced affair, it would no doubt be good economy to do the hauling with a cheaper truck, and use the car for passenger service exclusively. This will depend on the car. But there are many instances where a farmer with a small car has hauled such things as chickens, eggs, butter, or even a hog or a calf to town, and he has brought back groceries or even barbed wire or a walking plow laid over the back seat.

That, of course, is extreme, and no doubt is rather hard on the car, but it goes to show that the car may be adapted to emergency hauling if the occasion requires, and certainly no one will argue that the hauling has not been done in much less time than if a team were used. Time is the element of value so far as motor cars are concerned for hauling purposes. Farmers who own motor trucks say that the greatest item in favor of the truck is the time it saves, and they say this after having had experience with team and motor hauling.

Develops Social Life

The automobile has played an important part in other divisions of the farming enterprise aside from the business of the farm. It has been a great help in developing the social life in rural communities. A few years ago very few community meetings and township picnics were held; farm folks considered it too much trouble to hitch up a team and ride a long distance to the meeting. Then when they got back there was the job of unhitching and watering the team. The automobile has done away with all of that. Now we can get into the car and go to a meeting in the other corner of the county. It is only a short trip in a car, and may be worth a great deal to us after we get there. We are not obliged to hurry away in order to get home before morning, and when we do

get home, we simply run the car in the barn and we are thru. Certainly farmers are entitled and really need social life as much as city folks do, and there is no reason why they should not have it. Lately they are coming to enjoy it, and they owe a great deal to the motor car for this reason.

Then there is another point which should be considered, for it is one of great importance to farming communities and to farmers. This is the matter of improved highways. Ten years ago there were very few improved highways in the country, while today there are many miles of hard surfaced roads. Nothing has played a bigger part in the development of these highways than the automobile and the motor truck. Improved highways are not merely sources of pleasure for joy riders. They are money savers when hauling costs are concerned. Costs are often cut in half when the hauling is done over hard surfaced roads, while they are often doubled when the hauling is done over mud roads.

Many farmers own automobiles because they desire something in the way of a pleasure vehicle. They consider them much as we used to consider the old "surrey" some years ago. We all can remember when we used to ride to church in a square-topped surrey with fringe hanging down from the top. These vehicles were used only on state occasions. They were pleasure cars of an early day, and were never used for business purposes. So it is with many automobiles today. A pleasure car is a source of great comfort for the farm folks on Sunday or when a long trip is to be made; however, most farmers have motor cars because they need them in their business, and find that they can use them to good advantage.

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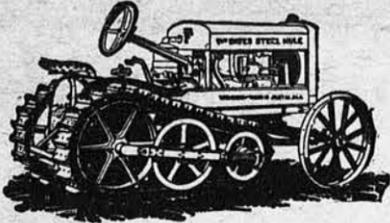
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The Bates Steel Mule is built for Spring work, and every farmer who uses horses or less efficient tractors for this work pays for a Bates Steel Mule whether he buys one or not.

The Bates Steel Mule does not pack the ground because of the broad Crawler surface which allows the tractor to rest on the top of the soil as lightly as a child's foot.

Bates Crawler Shoes have hardened steel parts, and are 100% oversize—that's why they last for years.

The front wheels make easy steering and comfortable riding.

The increased knowledge of how much money Bates Steel Mules make for farmers each Spring, combined with the fact that the price of the Bates Steel Mule has been reduced to practically a pre-war basis has caused the demand for this machine to be greater than ever this Spring.

Write today for full information.

Bates Machine & Tractor Co. Dept. 2-X Established 1883 JOLIET, ILL.

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Kansas Farmers Show Grit

Rural Business Conditions Will Soon be Normal

BY JOHN W. WILKINSON

KANSAS farmers this year are showing their grit and have fully resigned themselves to the idea of making the best of a bad situation. They are adjusting themselves to present conditions and are marketing many of their products and are accepting unavoidable losses and reduced profits in as cheerful a spirit as could be expected.

speculators and plant every available acre. Neither will he follow the suggestion to cut his acreage 50 per cent in order to double his profits next fall. He will not plant as large an acreage of many of his crops as was planted last year, but I feel sure that he will plant a normal acreage.

Spring Work is Progressing

The progress of farm work and soil conditions in Kansas are generally satisfactory, altho unfavorable reports have been received from a few localities. The Kansas state board of agriculture, in its weekly report for the week ending February 28, says:

"Weather conditions during the week just closed have been unfavorable for the best growth of wheat in sections where the larger acreages were sown last fall. Severe wind storms were the rule during three or four days and soil blowing was especially pronounced in Rush, Ellis and surrounding counties. The soil is very loose in that part of the state and heavy rains or snow are needed to pack the ground and protect the root-hold of the wheat in that section.

Readjustment of Trade

If retail merchants now will just make the same effort that the farmers have and sell off their old surplus stock at reduced prices and pay off their notes, it will ease up the situation with the banks and enable the merchants to get new credits needed to purchase new stocks of goods.

In the past the farmer usually has been made the goat in every business adjustment of prices, but he is now fully determined that this plan will not work in the future. Farmer organizations of various kinds are all busy working out sensible plans to protect farm interests and I am sure that better methods of marketing crops will be in operation before the harvest season arrives.

"During the past week there was a trace of rain and snow in the East Central and in Northwestern Kansas, but it did not extend thru the state in a general way. Temperatures have been mild and everything indicates the approach of spring. Fruit buds are much too far advanced for this time of year and if cold weather comes severe damage may result.

"Much interest in alfalfa growing is reported and in the central counties there are indications that a considerable area will be sown to the crop this spring. Farmers are also greatly interested in marketing plans as promulgated by the farm organizations with the hope of a more stable market for the crop of 1921."

Local conditions of crops, livestock, and farm work in the state are shown in the following reports from the county correspondents of the Kansas Farmer and Mail and Breeze:

Allen—We have been having good weather. A few farmers are sowing oats. Feed is plentiful. Some land is changing hands. A number of public sales are being held and prices are satisfactory. The farmers feel that this year is going to be a good one.

Barber—We had a snow February 18 but it is warm now. Farmers are plowing and are getting a good start with the spring work on account of the splendid weather we have been having. Wheat is excellent, and is making good pasture. Livestock is in good condition. Early garden stuff is being

(Continued on Page 30.)

Kansas Farmer and Mail and Breeze

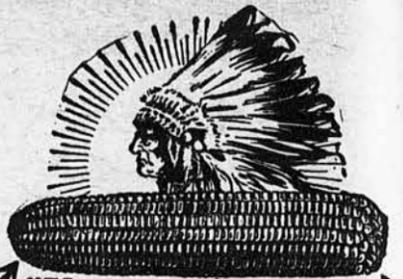
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FINEST YELLOW CORN Matures in 95 to 100 days. Yields regularly 75 to 80 bushels to the acre.

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this spring for corn, oats and other crops, and top dressing for wheat. Also MEAT MEAL, TANKAGE for hogs and chickens.

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Dairy-Activities-Problems

BY J. H. FRANDSEN
Dairy Editor

Factories outside of Kansas churn half as much butter from Kansas cream as is produced by the creameries inside the state, according to a statement just issued by J. C. Mohler, Secretary of the Kansas state board of agriculture. Reports were received from 27 creameries, nine in Colorado, 10 in Missouri, eight in Nebraska which show that 20,865,460 pounds of butter were manufactured by these concerns in the year ending March 1, 1920, from cream shipped to them from the Sunflower state. In the Kansas factories, 37,400,000 pounds of butter were made during the same period and Kansas farmers made a total of 13,218,000 pounds. The value of this butter manufactured from Kansas cream outside of Kansas is more than 12 million dollars annually.

The total value of butter alone in Kansas amounts approximately to \$40,800,000 or more than the value of all field crops in Delaware, Nevada or Rhode Island in 1920, or half the value of all crops produced in the state of Florida.

Kansans ought to manifest a greater appreciation of the cow by extending dairying. The product of the dairy not only means much to our agriculture but is doubly important as a basis for manufactures. We should see that butter manufacturing is increased and that as much as possible of the butter made from Kansas cream be made in Kansas.

Dairying, as well as the manufacturing of butter, is a year-round business and permits the fullest utilization of labor. The constant growth of both businesses will make for the best development and prosperity of the Sunflower state.

Jersey Cattlemen Elect Officers

At the business session of the annual meeting of the Southwest Jersey Cattle Breeders' association held recently at Springfield, Mo., the following officers were elected: President, J. E. Jones, Liberty, Mo.; vice president, O. B. Reitz, Coffeyville, Kan.; secretary-treasurer, F. W. Atkeson, Kansas City, Mo. Ten of the 20 directors came up for re-election as well as one or two other vacancies for various causes. The new slate of directors now reads: For one year, E. L. M. Benfer, Leona, Kan.; R. A. Gilliland, Denison, Kan.; E. G. Knight, Trenton, Mo.; S. H. Redman, Tipton, Mo.; H. C. Young, Lincoln, Neb.; George Ziegelhoeffer, Marshfield, Mo.; C. M. Wallbridge, Independence, Mo.; Prof. J. B. Fitch, Manhattan, Kan.; F. P. Durnell, Springfield, Mo.; B. C. Settles, St. Louis, Mo. Directors for two years are the following: E. G. Bennett, Carthage, Mo.; R. W. Barr, Independence, Mo.; J. W. Head, Palmyra, Mo.; M. L. Golladay, Holden, Mo.; Rolla Oliver, Independence, Mo.; Prof. A. C. Ragsdale, Columbia, Mo.; Earl Thomas, St. Joseph, Mo.; C. J. Tucker, Lees Summit, Mo.; F. J. Bannister, Hickman Mills, Mo.; R. E. La Force, Martin City, Mo.

Keep the Dairy Cow Clean

Clean milk is impossible if the cows are not kept clean. Dirty udders and thighs cause direct contamination of the milk, for clinging dirt particles are rubbed off into the milk by the milker. The fall in switching will brush off particles from the thighs and flanks into the pail. The udder should be brushed clean with a brush or clean cloth previous to milking. It is advisable to wash off the flanks and thighs occasionally with soap and water and it is recommended to wash the udder off every time previous to milking and dry thoroughly with a clean cloth. Some dairymen keep the hindquarters clipped, which is a good practice, for then these parts are kept clean more easily.

Do not discard shoes as soon as they begin to show signs of wear. Proper care means a reduction in shoe bills of from 25 to 50 per cent, and at the same time insures good-looking footwear. Keep your shoes in repair, and wear them as long as they are serviceable.

Including leather made from imported hides, the leather supply in the United States is large enough to provide every person with an average of two or even two and one-half pairs of shoes a year and to keep them in repair, as well as to replace all harness and machine belts every 10 or 20 years, at reasonable prices.

Dairying is most profitable



PRICES for dairy products have held firmly, while the cost of feed has been greatly reduced. Because of this there is relatively more profit than ever in dairying, and many farmers are turning low-priced feed into high-priced butter-fat. An eminent dairy authority says that you can make corn worth \$2 to \$3 a bushel by feeding it to good cows.

Times like these prove the value of dairying. It is the backbone of the nation's agriculture—the most profitable, surest and safest of all branches of farming. Dairying is not suffering from overproduction, is not overcrowded or overdone.

And De Laval Cream Separators have done more than any other factor to place the dairy industry on such a firm and profitable basis. They save cream, time and money twice a day, every day in the year. They produce a steady cash income. They have made the market accessible, even though you live 500 miles from a creamery. They keep the skim-milk on the farm to produce another crop of calves, hogs and poultry. They are made so well that 20 to 30 years' service from a De Laval is not unusual. Over 2,500,000 are in use in all parts of the world.

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Sooner or later you will use a De Laval Cream Separator or Milker

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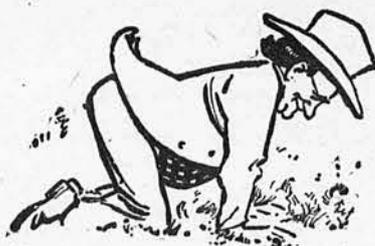
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A small chew lasts so much longer than a big chew of the ordinary kind. And the full, rich real tobacco taste gives a long lasting chewing satisfaction.

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FREE TRIAL

WE will send an Imported Melotte Cream Separator direct to your farm on a 30 days absolutely Free Trial—No deposits—No papers to sign—Use it as if it were your own separator. Compare it—test it in every way. You and you alone are the judge. We don't want anybody to send us any money on the Melotte. We want to prove first that it is the best separator possible to buy anywhere in the world.

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Don't pay a cent until you are convinced the Melotte skims cleaner, turns easier, washes quicker, lasts longer than all others. Then you pay \$7.50 as first payment and small monthly payments of only \$7.50 until the separator is paid for.

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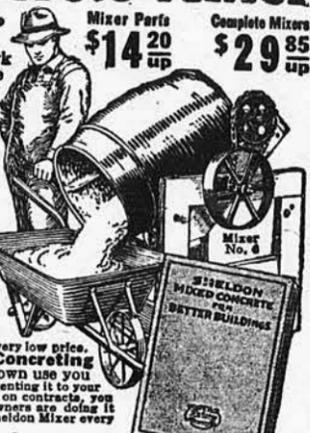
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The machine I bought of you in 1916 has given continual service to date without a single repair, and at present needs only the small cast wheels that support the drum, and their supports.—ASA A. GOBLE, Huntington, Ind.

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Kansas Farmers Show Grit

(Continued from Page 28.)

planted and everything is in good condition. The only drawback is the money stringency, otherwise the farmers would be in splendid condition for producing a bumper crop. Very little wheat is being sold as farmers are holding it for better prices.—Homer Hastings, February 19.

Chase—We have had excellent weather up to the present time and there has been no snow. Wheat is excellent. Farmers are preparing ground for spring planting. A large per cent of the alfalfa is being plowed up owing to the dry weather. Pasture leasing is slow.—F. O. Pracht, February 24.

Coffey—We are still having excellent weather. Farmers are preparing ground and sowing oats. Wheat is excellent but is not growing very much. A few sales are being held and everything brings satisfactory prices. Some wheat is being marketed. Wheat is worth \$1.44 to \$1.50; hens, \$1 a head.—A. T. Stewart, February 26.

Cowley—We have been having excellent weather and farmers are preparing their oats ground. Wheat has started to grow again. There will be a considerable acreage of corn planted here this year. Public sales are numerous but prices are low.—Fred Page, February 21.

Dickinson—We have been having spring winds the past two days. The weather has been rather cold the past 10 days. Wheat is green and seems to be doing well. Farmers are preparing their oats ground. About an average crop will be sown. Public sales are numerous and everything sells fairly well. Good horses are just about as high as last year.—F. M. Lorson, February 25.

Elk—Farmers are preparing the oats ground. The weather is cold and dry. Wheat is excellent. Several wolf chases have been held lately and several more planned for the next few weeks. Cream is worth 35c and eggs are 25c.—Charles Grant, February 19.

Ford—The high winds the past week have done considerable damage to some of the wheat fields. The weather is warm and farmers have begun plowing for oats and a few fields have been sown. Stock is on wheat pasture and is in good condition. We have a surplus of rough feed. There is not much wheat going to market. A number of farmers have sold out. Wheat is worth \$1.52; corn, 55c; butter, 40c and eggs are 22c.—John Zurbuchen, February 26.

Geary—The weather has been dry and windy but it is still warm. The soil is dry on top and the high winds of the past two weeks are drifting it some. Wheat still looks good but the high winds are hard on it. Farmers are preparing oats ground. Sales are being held every week and stock is bringing fair prices. Hogs are scarce and pig crop will be short. Corn brings 50c; wheat \$1.50 and oats are 50c; eggs 26c.—O. R. Strauss, February 26.

Govt and Sheridan—We are still having open winter weather. Feed and straw is plentiful. Stock is in good condition. We have been having some wind but the wheat is not damaged. The recent warm weather has started the wheat and wire grass. The fields have been too soft the past month to hold and good horses, mules and cattle bring better prices than before the holidays but machinery and household articles do not bring much. Some wheat is going to market. Farmers are beginning spring work. There are a few odd jobs of threshing and corn husking to do yet. The women are setting hens and incubators. Wheat is worth \$1.43; barley, 35c; corn, 60c; butterfat, 44c, and oats are 30c; eggs, 23c; hogs, 8c.—John Aldrich, February 26.

Harper—We are having excellent weather for this time of the year. Kansas leads California in climate this year. Farmers are plowing and disking for spring crops. A few public sales have been held and prices are about normal. There are not many hogs and cattle in the country. Feed is plentiful. Grain prices are low. Wheat is excellent. Stock is in good condition. Wheat brings \$1.50; corn, 40c; barley, 40c; kafir, 30c; butter, 30c and oats are 45c; eggs, 25c.—H. E. Henderson, February 14.

Harvey—The top soil of the wheat fields is getting quite dry and the high winds fill the air with dust some days. A good rain is needed. Wheat, \$1.45; corn, 45c; butter, 36c and oats are 40c; eggs, 26c.—H. W. Prouty, February 26.

Jefferson—Farmers have begun their spring work. Wheat is excellent. Livestock is in good condition. Prices at public sales are not quite up with the market. Hay is worth from \$12 to \$15 a ton and good milk cows may be bought for \$50 and less.—Arthur Jones, February 26.

Labette—We are having excellent spring weather. Wheat is excellent. A large acreage of oats has been drilled. Corn ground is nearly all plowed. A number of men from town are looking for work. We have had no rain for two weeks but there is still plenty of moisture. There is considerable opposition to hard surfaced roads. Corn brings 60c; cream, 41c and eggs are 25c.—J. N. McLane, February 26.

Leavenworth—A light snow and rain has made the wheat green. We have been having excellent weather. Spring work has begun. Roads are good. A large acreage of oats will be sown. Stock is in good condition, but not much is being sold. Butterfat is worth 45c, corn, 60c and eggs are 22c.—Geo. S. Marshall, February 25.

Lyon—The moderate weather has started the wheat and grass to grow and the trees to bud. Wheat is excellent. Stock is in good condition. The roads are good. Feed is plentiful. Farmers are cutting wood. Corn sells for 60c; wheat, \$1.55; butter, 40c and eggs are 25c.—E. R. Griffiths, February 18.

Norton—We have been having dry, windy, open weather. Wheat looks good but is in need of moisture. Farmers are plowing and sowing barley. There have been public sales every day this month and cattle and horses bring very low prices. Co-operative stores of the county made a good showing for last year's work. Farmers feeding cattle are slightly discouraged but expect to see better prices in 60 days. The acreage of alfalfa is about half what it was 15 years ago. Corn is worth 42c; wheat, \$1.40; butterfat, 27c and hogs are \$8.50; eggs, 25c.—Sam Teaford, February 26.

Pawnee—The weather has been warm and windy and some wheat has been blown out on sandy land. It soon will be time to sow barley and oats. Feed is plentiful. A few public sales are being held and nearly everything sells cheap. No land sales have been reported. Much repair work on farm fencing has been done this winter. Corn brings

(Continued on Page 34.)

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Words	One time	Four times	Words	One time	Four times
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3	1.44	4.80	28	3.36	11.20
4	1.56	5.20	29	3.48	11.60
5	1.68	5.60	30	3.60	12.00
6	1.80	6.00	31	3.72	12.40
7	1.92	6.40	32	3.84	12.80
8	2.04	6.80	33	3.96	13.20
9	2.16	7.20	34	4.08	13.60
10	2.28	7.60	35	4.20	14.00
11	2.40	8.00	36	4.32	14.40
12	2.52	8.40	37	4.44	14.80
13	2.64	8.80	38	4.56	15.20
14	2.76	9.20	39	4.68	15.60
15	2.88	9.60	40	4.80	16.00
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We believe that every advertisement in this department is reliable and exercise the utmost care in accepting classified advertising. However, as practically everything advertised in this department has no fixed market value, and opinions as to worth vary, we cannot guarantee satisfaction. We cannot guarantee eggs to reach the buyer unbroken or to hatch, or that fowls or baby chicks will reach the destination alive. We will use our offices in attempting to adjust honest disputes between buyers and sellers, but will not attempt to settle minor disputes or bickerings in which the parties have vilified each other before appealing to us.

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IMPORTED ENGLISH SINGLE COMB White Leghorn eggs, from flocks headed by cockerels from 288-300 egg hens, \$6 hundred; \$1.25 setting. Roy Blackwelder, Isabel, Kan.

R. O. RED EGGS FROM HENS ALL standard weight, tested for layers, sized by \$50 and \$75 males. Fertility guaranteed. 100, \$7; 50, \$4; 15, \$1.50. Mrs. E. F. Lant, Dennis, Kan.

PURE WHITE ORPINGTON EGGS, KELLERstrass strain, \$2 per 15; \$10 hundred. Single Comb Buff Leghorns, \$1.50 per 15; \$8 hundred. Booking orders now. Mrs. R. Cordry, Preston, Kan.

PARKS 200 STRAIN 31 YEARS BRED. to-and-do-lay Barred Rocks. Eggs prepaid, one set \$2.75; 100, \$10.50; Pen, \$2. Direct from Parks \$5.00, 15. Eggs prepaid. R. B. Snell, Colby, Kan.

ROSE COMB RHODE ISLAND RED EGGS from high class, bred-to-lay, farm range flock; setting, \$2; fifty, \$4.50; hundred, \$8. Infertiles replaced; safe arrival guaranteed. A. J. Turinsky, Barnes, Kan.

PURE BRED BUFF ORPINGTON EGGS for hatching by setting or hundred. The eggs are from fine prize winning stock, no deformed or small eggs shipped. If you want to get real satisfaction write W. G. Sulph, Belleville, Kan.

SINGLE COMB WHITE LEGHORN EGGS for hatching, flock closely culled, mated with Ferris 265-300 eggs cockerels, we guarantee safe delivery. 90% fertility, selected eggs, 100, \$8; Prepaid. Ed Wiemeyer, Duquoin, Kan. (Formerly Harper.)

LANGSHANS

BEST BLACK LANGSHANS, MARY McCaul, Elk City, Kan.

FOR SALE—PURE BLACK LANGSHAN cockerels \$3. Chas. S. Moon, Pratt, Kan.

BLACK LANGSHANS, COCKERELS AND hens, \$2 and up. Omega Morton, Dunlap, Kan.

BLACK LANGSHAN COCKERELS, LOVETT strain, \$3. Mrs. R. J. Heffling, Burrton, Kan.

BLACK LANGSHAN EGGS, GOOD LAYERS, 15, \$2.00; 100, \$10.00. Gidewell, Halwell, Kan.

BLACK LANGSHAN EGGS, FARM RANGE, 100, \$7; 50, \$4. Mrs. Walter Taylor, Neosho Falls, Kan.

LARGE PURE AND BLACK LANGSHAN COCKERELS, \$2.50 and up. Otto Breneman, Mayfield, Kan.

PURE BRED WHITE LANGSHANS, EGGS. Prize pen, second pen, range stock. Baby chicks. Sarah Griesel, Altoona, Kan.

BLACK LANGSHAN COCKERELS FROM blue ribbon winners. Eggs, 100, \$7; 50, \$4. Mrs. D. A. Swank, Blue Mound, Kan.

PURE BRED WHITE LANGSHANS, EXCELLENT layers. Eggs, \$1.50 setting; \$8 hundred. H. L. Cudney, Fravel, Kan.

BLACK LANGSHAN COCKERELS FROM state and national prize winners \$3 to \$5 each. Pedigreed stock. Baby chicks. Eggs, Jno. Lovette, Mullinville, Kan.

BLACK LANGSHANS—WORLD'S BEST strain. Winners National Egg contest and World's best shows. Extra good stock. Staples, Myers strain. Eggs \$3.00 per 15. \$8-10.00 postpaid. Mrs. Joe H. Williams, Houstonia, Mo.

LEGHORNS

S. C. BUFF LEGHORN EGGS, \$7 PER 100. J. A. Reed, Lyons, Kan.

SINGLE COMB WHITE LEGHORN COCKERELS, \$2.00. Frank Wirt, Preston, Kan.

SINGLE COMB WHITE LEGHORN COCKERELS, \$1.50. Tom Duggan, Lewis, Kan.

PURE SINGLE COMB BROWN LEGHORN cockerels, Will Walton, Newton, Kan.

LEGHORNS.

D. GOOCH, HUGOTON, KAN., WILL... R. Comb Brown Leghorn cockerels... SINGLE COMB BUFF LEGHORNS... EXTRA FINE S. C. B. LEGHORN EGGS... W. W. LEGHORN EGGS, PRIZE WINNERS... SINGLE COMB WHITE LEGHORN EGGS... EXTRA FINE S. C. B. LEGHORN EGGS... W. W. LEGHORN EGGS, \$6 HUNDRED... S. C. WHITE LEGHORN EGGS, \$3 100... BARRON STRAIN. Winter layers. Lee Bonnet... SINGLE COMB WHITE LEGHORN EGGS... ROYAL OAKS POULTRY FARM, CABOOL... SINGLE COMB BROWN AND WHITE... FERRIS SINGLE COMB WHITE LEGHORN... WHITE LEGHORN LAYERS HEADED... SINGLE COMB WHITE LEGHORN COCKERELS... SINGLE COMB BUFF LEGHORN EGGS... SINGLE COMB BUFF LEGHORN EGGS... ENGLISH WHITE LEGHORNS FROM IMPORTED... FISHER'S S. C. WHITE LEGHORNS... YESTERLAD'S SINGLE COMB WHITE... BABY CHICKS 15c POSTPAID, SINGLE... S. C. WHITE LEGHORNS. THEY LAY... CHOICE SINGLE COMB DARK BROWN... PURE BRED SINGLE COMB WHITE LEGHORN... CHOICE SINGLE COMB WHITE LEGHORN... S. C. WHITE LEGHORN STOCK, FERRIS... DARK STRAIN SINGLE COMB BROWN... BARRON STRAIN SINGLE COMB WHITE... PURE SINGLE COMB BROWN LEGHORN... WHITE LEGHORNS, FERRIS 255 TO 300... BARRON ENGLISH SINGLE COMB WHITE... PURE SINGLE COMB BROWN LEGHORN... 287 EGG LINE BARRONS, SINGLE... EXTRA QUALITY SINGLE COMB DARK... WE BUY OUR SINGLE COMB WHITE... SINGLE COMB BUFF LEGHORN COCKERELS... SINGLE COMB WHITE LEGHORNS. PEN... PURE BRED R. C. DARK BROWN LEGHORN... SINGLE COMB WHITE LEGHORNS. BARRON STRAIN... ENGLISH TOM BARRON LARGE KIND... HEADQUARTERS FOR BUFF LEGHORNS

LEGHORNS.

PURE BRED SINGLE COMB WHITE LEGHORN... ALL QUALITY STRAIN S. C. BUFF LEGHORNS... WHITE LEGHORNS—BRED FOR EGGS ONLY... WINTERLAY BARLOWS EVERLAYING... HEAVY LAYING SINGLE COMB WHITE... IMPORTED WHITE LEGHORNS. FREE... KOCH'S SINGLE COMB EITHER DARK... BUFF LEGHORNS—HAINES' HUSTLER... MINORCAS... MINORCA EGGS AND BABY CHICKS... PURE GIANT STRAIN, SINGLE COMB... GIANT SINGLE COMB BLACK MINORCA... SINGLE COMB BLACK MINORCA COCKERELS... ORPINGTONS... PURE BUFF ORPINGTON COCKERELS... S. C. BUFF ORPINGTON EGGS... GOOD BUFF ORPINGTONS. WRITE FOR... BUFF ORPINGTON COCKERELS... STANDARD BRED BUFF ORPINGTONS... S. C. BUFF ORPINGTON EGGS, WINTER... PURE BRED S. C. BUFF ORPINGTON... S. C. WHITE ORPINGTONS, KELLER... BUFF ORPINGTON COCKERELS \$4.00 LP... PLYMOUTH ROCKS... BARRED ROCK EGGS, \$7 PER 100... WHITE ROCK EGGS, \$6 PER HUNDRED... WHITE ROCK EGGS, 10c EACH... BUFF ROCK COCKERELS, \$3; PULLETS... QUALITY WHITE ROCKS, EGGS, \$5 SETTING... 100 BUFF ROCK EGGS, \$7; 50, \$4... WHITE ROCK COCKERELS, \$5 EACH... RINGLET BARRED ROCK COCKERELS... GRADED WHITE ROCK COCKERELS... RINGLET BARRED COCKERELS... WHITE ROCK EGGS, \$7.50 100... ARISTOCRAT BARRED ROCK COCKERELS... WHITE ROCK COCKERELS, \$3... LAYING STRAIN BARRED ROCKS... PURE BRED BARRED ROCK HENS AND... PURE BRED BARRED ROCK COCKERELS... BARRED ROCK COCKERELS, ARISTOCRATS... BUFF ROCKS—COCKERELS AND EGGS... TRAPNESTED WHITE PLYMOUTH ROCKS... BUFF ROCK COCKERELS THAT ARE... WHITE ROCK COCKERELS, SIZE AND

PLYMOUTH ROCKS

WILBURTHA STRAIN WHITE ROCK... BARRED ROCKS, 118 PREMIUMS... PURE BRED WHITE ROCK EGGS... RINGLET BARRED, PLYMOUTH ROCK... BARRED PLYMOUTH ROCK COCKERELS... FISHEL STRAIN WHITE ROCK EGGS... PURE BRED BARRED ROCK EGGS... BARRED ROCK EGGS, RINGLET ARISTOCRAT... WINTER LAYING STRAIN BARRED... WHITE ROCKS, TWENTY YEARS SELECTIVE... RINGLET BARRED ROCKS, DEEP EVEN... RINGLET BARRED ROCKS, THOMPSON... BARRED PLYMOUTH ROCKS; PARKS... PURE BARRED ROCKS, BRED FOR... PARKS 200 STRAIN, BRED-TO-AND-DO... 200 EGG LAYING STRAIN, BARRED... BARRED ROCK COCKERELS, PURE... WHITE ROCK EGGS, PREPAID, EXHIBITION... WHITE ROCK EGGS FROM EXTRA PROFIT... RHODE ISLANDS... SINGLE COMB RHODE ISLAND RED... PURE BRED R. C. R. I. RED COCKERELS... ROSE COMB RHODE ISLAND RED ROOSTERS... ROSE COMB REDS, CHOICE STOCK... R. C. R. I. WHITES, EGGS, 15, \$2; 100, \$8... EGGS, DARK R. C. REDS, BRED TO LAY... SINGLE COMB RED EGGS, HEAVY LAYING... PURE BRED ROSE COMB RED EGGS... SINGLE COMB RED COCKERELS... FOR SALE—ROSE COMB RHODE ISLAND... 15 SINGLE COMB R. I. RED COCKERELS... SINGLE COMB REDS, PRIZE WINNERS... RICH, DARK, ROSE COMB REDS... SINGLE COMB RED COCKERELS FROM... JOHNSON'S SINGLE COMB REDS, STATE... ROSE COMB RHODE ISLAND RED BABY... ROSE COMB RED EGGS FROM PRODUCING... SINGLE COMB REDS PRIZE WINNING... ROSE COMB RHODE ISLAND RED COCKERELS... 20 SINGLE COMB RHODE ISLAND RED

SEVERAL VARIETIES.

1,949 COCKERELS, 49 VARIETIES, FREE... CHOICE BARRED AND WHITE ROCK... PURE BRED WHITE ROCK COCKERELS... 48 VARIETIES, FINE PURE BRED... BLACK LANGSHANS, LIGHT BRAHMAS... BRED TO LAY BLACK LANGSHAN AND... BABY CHICKS, EGGS—SUPERIOR LAYING... LOWER PRICES: WHITE ORPINGTON... WANTED—RUNNER DUCKS, SPANISH... PURE BRED WHITE AND BROWN LEGHORNS... SINGLE COMB WHITE LEGHORNS... EGGS AND DAY OLD CHICKS FROM... TURKEYS... SILVER BRONZE PULLETS, \$6 EACH... PURE BRED BRONZE TOMS... BOURBON RED TURKEYS, TOMS \$10... BOURBON RED TURKEYS, WORLD'S... MAMMOTH WHITE HOLLAND TOMS... WYANDOTTES... PURE WHITE WYANDOTTE COCKERELS... GOLDEN WYANDOTTE COCKERELS FOR... COLUMBIAN WYANDOTTE COCKERELS... WHITE WYANDOTTES, CLAY CENTER... "BEAUTIFUL" SILVER WYANDOTTES... PURE WHITE WYANDOTTE EGGS... PURE BRED WHITE WYANDOTTE COCKERELS... COLUMBIAN WYANDOTTE SPECKLED... PURE BRED WHITE WYANDOTTE COCKERELS... PURE BRED ROSE COMBED WHITE... BARRON'S ENGLISH WHITE WYANDOTTES... PURE BRED WHITE WYANDOTTE EGGS... WHITE WYANDOTTE EGGS, 15, \$2; 100, \$10... FINE WHITE WYANDOTTE COCKERELS... POULTRY SUPPLIES... "QUEEN" INCUBATORS, 150, 275, 400, 600... POULTRY WANTED... COMMON PIGEONS FANCY EGGS AND... PREMIUM POULTRY PRODUCTS COMPANY... Select harness with care. See that it is well made. Make sure especially that the reins, breeching, holdback straps, tugs or traces, belly bands, and yoke straps are sufficiently heavy and strong for the work required. A runaway team cannot be controlled with weak reins, nor will weak tugs and straps stand heavy work. Encouraging progress is being made in raising the standard of the poultry flocks on Kansas farms.

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Special Notice

All advertising copy discontinued or changed 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.

KANSAS

290 ACRES WHEAT, \$3.00 acre and possession of place. H. Kruse, Grinnell, Kansas.

BEST FARM BARGAINS for sale in S. E. Kansas, by G. W. Meyer, Fredonia, Kan.

FOR SALE—320-acre extra well improved farm, 3 1/2 miles from Kinsley, Kan. Box 7, Kinsley, Kansas.

IF YOU WANT to buy, sell or exchange your farm, write W. T. Porter of the Kansas Land Company, Ottawa, Kansas.

IMPROVED FARMS, close town, wheat goes \$35 to \$60 a. acre, trader, Cave Realty Co., Wakecay, Grainfield or Oakley, Kan.

WRITE for our free list of Eastern Kansas farms and ranches for sale. The Eastern Kansas Land Co., Quenemo, Kan.

590 ACRES, improved, eastern Kansas, 390 bottom, bal. pasture. Price \$110, part trade. Clark Realty Co., Garnett, Kan.

EASTERN KANSAS FARMS Large list Lyon and Coffey Co., for sale by Ed. F. Milner, Hartford, Kansas.

30 ACRE Ottawa suburban home, slightly location, smooth, all tillable, only \$165 acre, terms. McConachie Land Co., Ottawa, Kan.

NINE CREEK BOTTOM FARM 160 plowed, 150 pasture, 40 in alfalfa, highly improved, 2 miles town, \$85 per acre, terms. T. B. Godsey, Emporia, Kansas.

TWO 80's 120, 160; well improved; choice locations. Priced right for quick sale. Immediate possession. Come at once. Mansfield Land & Loan Co., Ottawa, Kan.

WESTERN KANSAS

Will sell good land in Western Kansas. Prices ranging from \$9 to \$17.50 per acre. Liberal terms. H. C. Wear, Wichita, Kansas.

BUY IN NORTHEASTERN KANSAS where corn, wheat, and all tame grasses are sure. Send for farm list. Silas D. Warner & Co., 727 1/2 Commercial St., Atchison, Kan.

IMP. 80, Lyon county, \$6,000. Terms \$1,000. Balance long time at 6%. Imp. 320 Lyon county, \$40,000. Terms \$12,000. Bal. long time. Ira Stonebraker, Allen, Kansas.

INVESTORS, speculators, homeseekers—We make specialty on Ness county land. Let us show you what we have to offer. Write for list. Whitmer Land Co., Utica, Kansas.

NESS COUNTY WHEAT LAND Good smooth land from \$30 to \$50 per acre. Write for free list and county map. Geo. P. Lohnes, Ness City, Kansas.

TWO LANE COUNTY BARGAINS 160 acres, unimproved, \$3,200. 640 acres with 160 acres wheat, all level, \$25 an acre. Terms. Jas. H. Little, La Crosse, Kansas.

FRANKLIN COUNTY FARMS that must be sold soon. 40, 80, 120 and 180. All good laying, well located, good improvements. For sacrifice prices on these and others write S. W. Spangler, Ottawa, Kansas.

I HAVE 10 TO 15 GOOD FARMS for sale near Lawrence. Also some attractive suburban places. These farms can be bought on good terms. W. S. Clawson, 744 Mass. St., Lawrence, Kan.

IMPROVED QUARTER, \$2,500. 7 miles east of Liberal. \$1,200 cash, bal. yearly payments. Small improvements. 100 acres cultivation. Good sandy soil. Write owners, Griffith & Baughman, Liberal, Kansas.

NESS COUNTY, KANSAS, FARMS Ness county raised 3,000,000 bushels wheat in 1920. Has 200,000 acres fine wheat now. Write for list and county map. Floyd & Floyd, Ness City, Kansas.

LET ME SELL YOU A FARM in the Oakley country. Wheat and barley making \$50 to \$75 acre. Corn and all feed crops fine. Good tractor land, \$39 to \$50. For list write, A. H. Wilson, Oakley, Kansas.

SOUTHEASTERN KANSAS.

Farms, all sizes; lowest prices. Terms \$2,000 up. Send for booklet. ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

MUST SELL this fine farm home, 341 acres adjoining good town, Lane county, Kan. 2 blocks from high school. Improvements extra good, 120 acres fine wheat, smooth as a floor. Price \$55.00 per acre for quick sale. Mansfield Investment and Realty Co., Healy, Lane County, Kansas.

THE BEST present investment is land and the best place to buy land is in Ness Co., Kansas. All sized tracts from 160 acres to 10,000 acres improved and unimproved at prices ranging from \$25 to \$75 per acre. Some exchanges. Agents protected. A. W. Buxton, Utica, Ness County, Kansas.

SMOOTH 160 ACRES, 1/2 miles Lawrence, 2 miles shipping station. 100 wheat goes, 20 pasture, 36 spring crop. 6-room house, barn, 30x40, granary 40x40, garage, shop, chicken house, everlasting water, \$26,400. Incubance \$12,000. 6%. Possession now. Hoarford Investment and Mortgage Company, Lawrence, Kansas.

FARM-HOME

160 acres, 22 miles K. C., rock road most way; 30 alfalfa; 50 clover; 90 pasture; living water; 5-room house; cellar; large barn; stanchions, etc.; belongs to estate must be sold; \$100 per acre, think of it, at Kansas City's door.

MANSFIELD LAND & LOAN COMPANY, 415 Bonfils Bldg., 10th & Walnut, Kansas City, Mo.

KANSAS

FOR SALE—IMPROVED KANSAS FARM 640 acres, near Ashland. 500 acres tillable, 400 in cult., 240 pasture. Chocolate loam. Wheat, oats and barley principal crops. 6-room house with bath, 8,000-bu. double shed, numerous other buildings. All under good fence. About 100 bearing fruit trees. 300 acres growing wheat goes. Only \$50 per acre on suitable terms. Possession in spring. For further information write W. B. Grimes, Ashland, Kansas.

ARKANSAS

80 ACRES, 65 cult. Meadow, orchard, chocolate loam, good improvements; \$2,400, terms. Durham & Company, Conway, Ark.

BUY A FARM in the great fruit and farming country of the west, Arkansas where land is cheap and terms are reasonable. For free literature and list of farms write J. M. Doyel, Mountainburg, Arkansas.

FOR SALE—Rich Arkansas land. Fine farms, both bottom and uplands. Cotton, corn, alfalfa and stock farms. Healthy climate, fine water, hard surfaced roads, fine schools and colleges. Write me what you want. Liberal terms. Progressive community. W. O. Scroggin, Morrilton, Ark.

MICHIGAN

FARMS—Fruit, grain, dairy. For booklet list, write Hanson Agency, Hart, Mich.

220 ACRES CLEARED. Level, 4 miles from city on gravel road. Clay loam; creek; good house; 2 barns; 60x80 and 50x70, other buildings. \$22,000 \$5,000 cash. Others. Evans-Timney Co., Fremont, Michigan.

COLORADO

COLORADO FARMS of any size, irrigated or non-irrigated. Near Denver. Send for free booklet V-3. The Zang Investment Co., American Bank Bldg., Denver, Colorado.

COLORADO LAND

No chinch bugs, Hessian flies or tornadoes. Send for literature about real farms. Vernon McKelvey, Greeley, Colorado.

BEST LANDS

Nothing better in East Colorado; farms and ranches; lowest prices; best terms; write for facts and lists. R. T. CLINE, OWNER, BRANDON, COLO.

COLORADO IRRIGATED FARMS

Farm lands in the San Luis Valley produce 4 tons of alfalfa, 60 bu. wheat, 300 to 500 bu. spuds, other crops equally well. Best hog country in the world. Farm prices low. Send for literature about this wonderful valley. Excursions every two weeks. ELMER E. FOLEY, 1001 Schwelter Bldg., Wichita, Kansas.

Why Pay High Rent and Gamble on the Rain Fall?

San Luis Valley, Colorado, irrigated farms produce more and cost much less and the climate is ideal. We make the terms to suit you. Write for special list. Over 10,000 acres to select from.

Union Finance & Mortgage Co. 219 City Nat. Bank Bldg., Omaha, Nebraska.



KIOWA VALLEY FARMS

Farm in Colorado's Rain Belt

Farm your own land in Kiowa Valley. Have more pasture. Raise bumper crops. Feed more stock. Rich, sandy chocolate loam soil. Land level. Crops are corn, wheat, oats, barley, sorghum, cane, beans, alfalfa, Sudan grass. Sunny, temperate climate. Surrounding thriving towns on Union Pacific main line, only 35 miles to Denver. Neighbors, good schools, roads, R. F. D. and telephone. Get more return per acre for each dollar invested. Write today for full particulars.

Reynolds, Covey & Reynolds, Inc. Owners of Kiowa Valley Lands 645 Exchange Bldg., Denver, Colorado

MISSOURI

TRADES made everywhere. Describe property and tell me your wants. Duke, Adrian, Mo.

FREE—All about the Ozarks and list of cheap farms, all sizes, best of terms. Durnell Land Co., Cabool, Missouri.

FREE LIST describing Ozarks. 75 farms, dairy, orchard, timber, cut over and tobacco land. Simmons & Newby, Cabool, Mo.

COME to the Ozarks. Good spring water. Farms all sizes. Write for list. Douglas County Abstract Co., Ava, Mo.

WRITE FOR OUR LIST of improved and unimproved gently rolling, valley and bottom farms. \$15 to \$50 per acre. J. D. Gerlach & Co., Doniphan, Missouri.

POOR MAN'S CHANCE—\$5 down, \$5 monthly buys fifty acres grain, fruit, poultry land, some timber, near town, price \$200. Other bargains. Box 425-O, Carthage, Missouri.

MISSOURI—\$5 down \$5 monthly buys 40 acres truck and poultry land near town Southern Mo. Price \$240. Send for bargain list. Box 160, Mt. Vernon, Ill.

WE HAVE FOR SALE five of the best rock road stock and grain farms, close to K. C. 200 acres highly improved, \$200. 160 acres, a dandy, \$150 per acre. 240, 17 miles out, \$65 per acre. 80 acres, 35 miles S. E., 30 per cent less than cash value. 800 acres worth \$150, at \$60 per acre. For real farm bargains, write George A. Bond, care Gregg Realty Co., 314 Bonfils Bldg., Kansas City, Missouri.

MINNESOTA

PRODUCTIVE LANDS—Crop payment or easy terms. Along the Northern Pacific Ry. in Minnesota, North Dakota, Montana, Idaho, Washington and Oregon. Free literature. Say what state interests you. H. W. Byerly, 81 Northern Pac. Ry., St. Paul, Minn.

NEW MEXICO

BEST WHEAT LAND—Rich black soil, shallow water. New country, land cheap. Reference, any bank in Union County. Write VALLEY LAND CO., Dedman, N. M.

NEW YORK

384-ACRE FARM, 250 tillable, remainder woods and pasture; fair buildings, water abundant, good location; settle estate. Elmer Fuller, Locke, New York.

127 ACRES, 2 sets buildings, fine timber, well located, soils, crops, fruit, \$2,700. Terms. See catalog. Coughlin's Farm Clearing House, 121 S. Warren St., Syracuse, N. Y.

NEBRASKA

FOR SALE OR LEASE; 7040-acre ranch, Lincoln Co., Nebraska. Good grass, rolling, watered and fenced. Write owner JOHN W. BAUGHMAN, Liberal, Kansas

PIERCE CO. FARMS for sale. 80 and 160 acre tracts, extra well improved. Good soil, roads, school, water, bldgs., etc. \$90 to \$150 per a. Terms. Will consider trades if close. D. C. Delbler, Pierce, Neb., Owner.

OHIO

200 GOOD ALL-CROP FARMS, bldgs., \$60-\$150 acre. R. A. Brown, Ashland, Ohio.

OKLAHOMA

BUY imp. wheat farm, Okla. Small payments, easy terms. R. H. Thompson, Clinton, Okla.

N. E. OKLA., 80 acres, one mile of Vinita, all smooth valley land, fair improvements, flowing well, good water, no rock, six thousand, terms. Arch Wagoner, Vinita, Okla.

50 ACRES very finest dry black bottom land. Raised average of 40 bu. corn per acre past 10 years. Fine for alfalfa. All in cultivation. \$1,500 house, \$75 per acre. Terms. Southern Realty Co., McAlester, Oklahoma.

SOUTH DAKOTA

SOUTH DAKOTA—If you have \$2,000 to put into a farm come to South Dakota where land is still selling at low price. Write for free bulletins. If you want to buy, rent or work on a farm write to Immigration Department, Irwin D. Aldrich, Commissioner, Capitol F-86, Pierre, South Dakota.

TEXAS

ONE CABBAGE crop often pays for the land in Lower Rio Grande Valley. Save \$100 per acre by dealing with owner. L. W. Heagy, LaFeria, Texas.

THE SANTA FE has built a new branch railway line through the South Plains region of West Texas. A new farming and livestock region with new towns is being opened up. This territory already is partly occupied by a good class of settlers and crop possibilities proven by actual experience. Here you can profitably raise cotton, corn, sorghums and fruit. It is an ideal livestock and dairy country. Low prices for unfilled lands and very easy terms. Move in early and take first pick. Write today for free illustrated folder. T. C. SPEARMAN, 1 Santa Fe Bldg., Blythe, Texas.

WYOMING

SOUTHEAST WYOMING grain, alfalfa, dairy farms, \$30 up. Terms easier than renting east. No hot winds. No alkali. W. F. Whitehead, Hillsdale, Wyoming.

REAL ESTATE WANTED

WANTED—Some western Kansas land, must be cheap. Marsh Urie, Topeka, Kansas.

3 GOOD BRICK STORE BLDGS to trade for imp. land. Income \$1,410 per year. E. I. WILSON, Gravity, Iowa.

I HAVE CASH BUYERS for salable farms. Will deal with owners only. Give description and cash price. Morris M. Perkins, Box 378, Columbia, Mo.

Kansas Farmers Show Grit

(Continued from Page 30.)

46c, wheat, \$1.50; barley, 45c and oats are 45c.—E. H. Gore, February 26.

Rawlins—We have been having excellent weather the past three weeks. The frost remains this way another week farmers will be able to work in the fields. A considerable amount of wheat has been marketed the past two weeks and farmers have sold most of their wheat. A few farmers are selling their corn. Wheat is worth \$1.30; corn, 25c to 30c.—J. S. Skolout, February 26.

Rooks—We have been having high winds and considerable damage was done to the wheat as the soil drifted considerably. Some report that as much as 75 per cent of the fields are damaged. It can be pretty safely estimated that the growing wheat has been damaged 80 per cent. The preparing of oats ground has been delayed. Wheat is worth \$1.45; corn, 45c; butterfat, 40c; butter, 30c and eggs are 24c.—C. O. Thomas, February 25.

Russell—We have had severe winds lately and considerable damage was done to the wheat, and it will be damaged still more if it doesn't rain soon. Feed is plentiful. A few farmers are feeding steers. A number of farmers are going to sow barley. Hogs are scarce. Farmers butchered all their own beef. Horses do not sell readily. Wheat sells for \$1.40; butterfat, 35c and eggs are 25c.—M. Bushell, February 22.

Smith—It is doubtful whether the Farm Bureau will be established in this county as many farmers are indifferent. Some are definitely opposed and some sincerely favor it. More high winds and dust are stealing much moisture and remind us of the spring preceding the years of drouth in the past. Many public sales are being held, some because farmers must have cash to meet obligations. Butterfat sells here for 44c; wheat, \$1.40; corn, 43c and eggs are 24c.—E. D. Panter, February 26.

Summer—We are having warm weather and wheat is greening up. The winds are drying the fields some so it won't be long until farm work will begin in earnest. Very few sales are being held. Some threshing is being done. Wheat is worth \$1.40; corn, 55c; butter, 30c; butterfat, 35c and oats are 40c; eggs, 22c.—E. L. Stocking, February 12.

Wichita—We had a snow February 18 but since then the weather has been warm. Farmers are disking and plowing, but the acreage of crops will be smaller than last year. Farm wages have dropped and a few farmers are offering as low as \$25 a month for unmarried men. The Farmers' Equity Union at Leoti is offering prices 3 to 5 cents lower for grain than elsewhere. Corn is worth 40c; barley, 35c.—E. W. White, February 26.

Woodson—We have been having excellent weather and no freezes or frosts, but it is colder again. Sowing oats will begin this week if weather permits. A few sales have been held and prices are satisfactory. Stock has done extra well.—E. F. Opperman, February 18.

The Farmers' Income Tax

The difficulties encountered in making out your farm Income Tax Return to the Government, is in not knowing just what is income and what are proper items of deduction. "The Farmer and the Income Tax" is a book containing the Income Tax Law and, also, contains questions and answers arranged by an Income Tax Expert, who analyzed the statements and made out the Income Tax Returns for more than 3,500 farmers.

This book, and also the simplicity Farm Record Book can be obtained free and postpaid by sending a yearly subscription to Kansas Farmer and Mail and Breeze at the regular subscription price of \$1.00 a year, or with a three-year subscription at \$2.00. Our supply is limited—order today. Address Income Tax Dept., Kansas Farmer and Mail and Breeze, Topeka, Kan.

SALE OR EXCHANGE

WILL ACCEPT Automobile and \$1,000 as payment on fine quarter, balance easy terms. G. N. Kysar, Goodland, Kan.

WANT TO HEAR from party having farm for sale. Give particulars and lowest price. John J. Black, Copper St., Chippewa Falls, Wis.

FARMS, ranches, city property, merchandise for sale and exchange. Write us. Weeks & Shackelford, 1023 E. 31 St., Kansas City, Mo.

FOR SALE OR EXCHANGE—Ranches and farms. Would like to list good income property. E. E. Gabbart, Alva, Oklahoma.

FOR TRADE—480 acres rough timber pasture land, Pittsburg Co., Oklahoma; five miles Hartshorn; for western Kansas land only. Might assume some. \$7.00 per acre. E. L. Felt, Wellington, Kansas.

MISCELLANEOUS

WRITE LETCHWORTH & SON, Commerce Bldg., Kansas City, Mo., for farm bargains.

SELL YOUR PROPERTY QUICKLY for cash, no matter where located, particulars free. Real Estate Salesman Co., 519 Brownell, Lincoln, Neb.

COMPLETE INFORMATION on the Southwestern and Mexico where opportunities abound. Weekly bulletins, \$3 yearly. Rogers-Burke Service, Tucson, Arizona.

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Kansas and Oklahoma
Lowest Current Rate
Quick Service. Liberal Option.
Interest Annual or Semi-Annual.
THE PIONEER MORTGAGE CO.,
TOPEKA, KANSAS.

The Grain Market Report

BY JOHN W. SAMUELS

CROP killers were busy a few days ago scattering reports about the possible danger from the green bugs which had appeared in Texas and in some places in Oklahoma, but the cold wave came along just at the opportune moment and disposed of that menace. The effect of the report, of course, was much greater on the market than on the wheat fields, even in the area where the green bugs were actually found. None of these bugs lived long enough to make their way to Kansas. Now that the green bug scare has subsided, the crop killers are busy trying to find evidences of a possible attack of Hessian fly to use as another menace. Then a little later the chinch bug will afford another excuse for a scare. However, many farmers still have a large quantity of wheat on hand and these rises in the market that may develop from such scares will benefit them as well as the speculators, who hope to profit by market fluctuations.

The Hutchinson Meeting

The executive committee of the Kansas branch of the National Wheat Growers' association met in Hutchinson, Kan., February 24 and formulated a plan for controlling at least 50 million bushels of the wheat in Kansas, or half of the normal production of the state. This pool will be directed by A. C. Bailey of Kinsley, Kan.

Every member of the association is bound by the action of the executive committee to turn over approximately one-half of the wheat raised in 1921 to the pool. Heretofore, the wheat holding of the association membership has been entirely voluntary.

"We are going to stabilize the wheat market so that farmers can get a fair price for their crop," said W. H. McGreevy, secretary of the National Wheat Growers' Association. "We believe that this action will stabilize the 1921 market. Every other state organization will take similar action."

Marketing Plan

The wheat growers' contract is to be similar to that of the California fruit growers, Mr. McGreevy said. Upon delivery of the grain the title to it passes to the association's central sales agency. The producer is to be reimbursed a portion of the grain values as an initial payment. At the close of the year, the sales agency will pay every producer the remainder of the price, which will be an average for grain marketed throughout the season. Thus it is intended to prevent the market being glutted at the threshing season, with a resultant decrease in price. The association is to hold the grain until such market price as it deems returns a fair profit to the producer is obtainable.

The overhead expense of the organization is to be met by a small commission on every bushel of wheat sold. Members are assessed an initiation fee, but there are no yearly fees. Secretary McGreevy said the association plans to borrow money on the stored

grain to finance the plan, and in case enough money cannot be obtained in this manner, the association will issue six months' bonds on stored wheat and sell them to investors.

Kansas City Grain Quotations

Slight declines in wheat were reported for the week. At the close hard wheat was 2 to 6 cents a bushel lower, dark Red wheat was 3 to 6 cents lower, and Red wheat was 4 to 6 cents lower. However, offerings were liberal and were more than enough to meet the demand. The following quotations were given: No. 1 dark hard, \$1.67 to \$1.68; No. 2 dark hard, \$1.66 to \$1.67; No. 1 hard, \$1.61 to \$1.65; No. 2 hard, \$1.60 to \$1.64; No. 1 Red, \$1.73 to \$1.75; No. 2 Red, \$1.73 to \$1.75; No. 1 mixed, \$1.61 to \$1.66; No. 2 mixed, \$1.60 to \$1.66.

Corn was in fair demand, but declines of 1 cent to 1½ cents were in evidence. Offerings were liberal. The following prices were quoted: No. 2 White, 60 cents a bushel; No. 3 white, 57½ cents; No. 2 Yellow, 59 cents to 60 cents; No. 3 Yellow, 58½ cents.

Oats were only in limited demand and prices at the close dropped ½ cent to 1 cent a bushel. The following quotations were reported: No. 2 white, 46 cents a bushel; No. 3 white, 45 cents; No. 2 Red, 42 cents to 42½ cents.

Other Feeds

Kafir was only in fair demand and declined from a cent to 2 cents. Milo was unchanged to a cent lower. The following quotations were reported: No. 2 White kafir, 94 cents to 96 cents; No. 3 White kafir, 87 cents to 88 cents; No. 2 milo, \$1.03 to \$1.04; No. 3 milo, 99 cents to \$1.

The following prices for other grains and feeds were given: No. 2 rye, \$1.38; No. 3 barley, 57 cents; No. 4 barley, 56 cents; bran in sacks, \$1.05; corn chop in sacks, \$1.20 to \$1.26.

The millfeed situation has improved and there has been a better demand during the past week. Shorts were scarce and there was an advance of approximately \$1 a ton. Brown shorts are quoted at \$21 to \$22 a ton; and gray shorts, \$22 to \$23 a ton. Linseed meal is quoted at \$38 to \$40 a ton on Chicago basis; cottonseed meal, \$37 to \$39 a ton on Milwaukee basis.

Hay Prices Better

Supplies of hay were limited and caused an active market at Kansas City. Prairie hay and alfalfa both showed advances of \$1 a ton, clover hay was 50 cents to \$2 a ton higher, while timothy was from 50 cents to \$3.50 a ton higher.

The following quotations were reported: Choice alfalfa, \$2.50 to \$2.50 a ton; No. 1 alfalfa, \$19 to \$20; standard alfalfa, \$16 to \$18.50; No. 1 prairie, \$12 to \$12.50; No. 2 prairie, \$8.50 to \$11; No. 1 timothy, \$19 to \$21; standard timothy, \$17.50 to \$18.50; mixed clover, \$18 to \$19; No. 1 clover, \$16 to \$17.50; packing hay, \$5 to \$5.50; straw, \$6 to \$6.50.

The Livestock Market

BY WALTER M. EVANS

Prices for fat cattle at Kansas City this week rose 50 to 75 cents, making a gain of 50 to 75 cents, making a gain of \$1 to \$1.50 in the past two weeks. The market now is higher than at any previous time since early January. Choice steers sold up to \$9.65. Nothing prime was offered. Hog prices are 40 to 50 cents higher than a week ago. Demand is active. Sheep and lamb prices rose \$1.50 to \$2 a hundred pounds. Lambs at the close of the week sold up to \$10.75, and yearlings up to \$8.50.

Receipts for the week were 28,100 cattle, 3,700 calves, 47,400 hogs and 27,750 sheep, compared with 25,500 cattle, 3,450 calves, 55,900 hogs, and 39,500 sheep the previous week, and 31,450 cattle, 4,000 calves, 8,000 hogs, and 28,800 sheep a year ago.

Cattle Advance 75 Cents

Last week's advance of 50 to 75 cents, failed to draw increased supplies of cattle and prices rose another 50 to 75 cents to the highest level for some time

HORSES AND JACK STOCK

HORSES AND JACK STOCK

The Best Jack Offering This Season

Is the opinion of good Judges who have seen the stock to be sold in my dispersion sale at

Louisiana, Mo.,

Thursday, March 17

There will be more prize winning Jacks and Percherons in this sale than in any sale announced for this season.

The Offering includes
PERCHERONS—5 Stallions, 5 Mares
JACKS—28 Reg. Jacks, 28 Hand Picked Jennets

Squire Haines is without a doubt the best individual Jack and the best sire to be sold this year. He has proved his quality by being twice grand champion in big shows. He is the sire of the largest Jack in America and his colts are uniformly good from both Jennets and mares. He is the top of the 20 Jacks of serviceable age to be sold.

Demonstrator by Decorator is a 3 year old of great promise. His sire is one of the most noted Jacks ever owned in Shelby and Monroe Counties, Mo.

Prince is a real horse and a real sire that should head a great Percheron herd. He has been a great winner at both the International and Illinois State Fair.

Kakell is another Percheron with a long string of winnings including grand championship honors. Mr. Breeder, Mr. Showman, Mr. Dealer—You can fill your needs at my dispersion. A great bunch of females and a real lot of sires that must have a new home. Send for the catalog today as it describes the offering in full.

Col. Gross, Auctioneer

W. L. McIlroy, Louisiana, Mo.



Prince, a 2100 lb. International Winner by the Great Inedit.



18 Kentucky Jacks At Private Sale

Shipped from my farm at Flemingsburg, Ky., to Salina, Kan.

A load of 18 head of the best Kentucky Jacks that I have ever owned. Have been shipping Jacks to Kansas since 1879. This load has more size, heavier bone and more quality than any 18 Jacks I ever owned, ranging in height 14¼ to 16 hands. Only a few under 15½ hands. Every Jack is black, reg. and prompt performer. The public is invited to call and see them. They are for sale. I am located at Snyder Livery Barn at Salina, Kansas.

E. P. MAGGARD—Formerly Sanders & Maggard



AL. E. SMITH'S JACK FARM

40 Big Mammoth Jacks

15 to 16½ hands; the large, heavy-boned kind; all black with white points. More large Jacks to select from than you will find elsewhere. Come and see them or write. Forty miles west of Kansas City, Interurban service.

Al E. Smith, Lawrence, Kansas

Purchase Percherons

A TIP

Stallion owners who have not already received the 1921 Percheron Review should send for a copy at once. It is free. We also have some excellent circulars ready for distribution. Every owner of a Percheron horse should be a member of our Society so that he would receive this literature regularly.

Everyone interested in draft horses should get the latest news regarding the horse situation. Our circulars have it.

The Percheron business is sure looking bright. Now is the time to buy good mares and select a high class herd horse. Address

PERCHERON SOCIETY OF AMERICA
Ellis McFarland, Secretary,
Union Stock Yards, Chicago, Ill.



Jacks and Jennets

For sale, 15 to 16 hands, all blacks, good bone and body. From 3 to 7 years old. Also some younger Jacks.

Philip Walker
Moline, Kansas, Elk County

Your Jacks Will Sell

and can stand for public service with full recognition if they are registered with the Standard Jack and Jennet Registry of America, the largest Jack registry in the world and the only registry in which all prize winners at the Panama-Pacific International Exposition are recorded. Send for blank applications and information to

Wm. E. Morton, Sec'y, Scarritt Bldg., Kansas City, Mo.
Send for free literature on Jacks and Mules

Percheron Stallion

Dorel 142127 will be sold March 9, 1921, at public auction. Color black, age 3 years, wt. 1800 lbs. Mares in sale in foal by this horse. Horse will be shown any time previous to sale, and sealed bid can be left with clerk, H. C. Rubert, Courtland, Kan.

SWANSON & BRENNEMANN, OWNERS,
Courtland, Kansas

FOR SALE THREE REGISTERED JACKS

Two 7 years old and one 4 years. All black, white points, plenty bone and size. All good performers and proven producers of big, classy mules which are here to show. We are changing business. Must sell before March 1, 1921. Come and see.

Fred Gimple & Son, R. 2, Mankato, Kansas

PERCHERONS

A few choice 4 to 6 year old mares 1700 to 2000 pounds. Well broke to all farm work. Bred to Ivan of Barton. A few stallions 2 to 3 years old. Top-notchers at live and let live prices.

D. A. Harris, Great Bend, Kan., Route 6, 3 miles east

Hinemans' Jack Farm Dighton, Kansas

Buyers will find our barns full of good Jacks up to 16½ hands high and at very reasonable prices. Herd headed by Kansas Chief, world's grand champion, which we showed at Panama Pacific International Exposition, San Francisco, 1915. We breed more big Jacks than any other farm in the U. S. Since our world's fair winnings we have shown in 33 rings at Kansas state fairs and have lost but one first premium. A written guarantee goes with each Jack.

Hineman & Sons, Dighton, Kan.

I will sell at PUBLIC AUCTION Thursday, March 10

at my farm 6 miles east of Bonita, Kansas, 2 west and 2½ north of Stillwell, Kansas, the following breeding stock: 13 Jacks, 3 ready for service, 6 coming two, 4 coming yearlings, all large, young Missouri bred Jacks; 11 Jennets; 1 Percheron stallion; 6 registered Shorthorn cattle; 30 ewes and some other stock. All Jacks are black with white points. Will send full bill on request. Morning trains will be met at Olathe, Bonita and Stillwell. Telephone Olathe 2322.

J. C. McKAIG, BUCYRUS, KANSAS, R. 1

REGISTERED MAMMOTH JACKS Best in the West

We won every first and championship prize in the Jack and Jennet classes at the National Western Livestock Show at Denver, January, 1921. Over 35 years in the Jack business. Our Jacks registered and inspected, quick and active performers, with size, bone and quality. Write us your wants.

John E. Burns, Longmont, Colorado

40 Big Black Reg. Tenn. Jacks With Size, Bone, Quality

Sired by undefeated champions; Gen. Logan; The General; Gen. Wolf; 2 to 6 years; 15 to 16 hands; broken to serve. Few Belgians and Percherons at reduced prices. We have what we advertise. Meet trains at Lyons, Chase, Raymond.

M.H. Malone, Chase, Kan., J.P. Malone, Lyons, Kan.

HORSES AND JACK STOCK

For Sale or Trade

Black Percheron Stallion
3 yrs. old, good breeder. Colts to show. Broke to work. A bargain if taken soon.
B. B. BROWN, MORLAND, KANSAS

Mares, Stallion and Jack For Sale
All trade for cattle or corn. Purebred reg. Belgian stallion, 6 yrs. old, Jack 6 yrs. old, 49 mares and fillies.
W. R. THAYER, MARTIN CITY, MISSOURI

One Purebred Percheron Stallion
Grade Belgian; two registered Jacks 15½ hands. Anxious to sell this stock cheap.
L. KNOX, ROUTE 1, ERIE, KANSAS

2 Purebred Reg. Percheron Stallions
\$800.00 cash, if taken immediately, as they have been in this locality too long.
Earl McLaughlin, Bavaria, Kansas

Big Mammoth Jack For Sale
15½ hands high. Big bone. 15½ yrs. old. Address H. H. Morris, Delia, Kan.

Best of World's Championship Blood Lines
Sire that sire outstanding mules. Broke to serve and proved to sell. Louis Mills & Son, Alden, Kan.

FOR SALE OR TRADE
Registered Jack, black with white points.
H. E. Hershberger, Harper, Kansas

POLAND CHINA HOGS

POLAND CHINA HOGS

Walton's Poland China Spring Sale

15 tried sows and fall yearlings, 15 spring and early summer gilts. All immunized and bred for spring farrow. Sale at my farm, in pavilion, near

Cuba, Republic Co., Kan., Tuesday, March 15

Two herd boars will sell, my big herd boar, Big Jumbo Sampson and another splendid young boar, Double Monarch. This is an offering of select sows and gilts of the most popular breeding. They are well grown and have been carefully fed and bred with their future usefulness always in mind. Catalogs are ready to mail. Address

J. H. Walton, Cuba, Kansas

Will Myers, auctioneer.

Note: We will also sell some good farm horses.

SPOTTED POLAND HOGS.

Buy Some Spotted Polands

Special prices on tried sows and yearling gilts, bred or open. Good serviceable boars and fall pigs. Everything immunized and in thrifty condition. Very attractive prices on lots of five or more.

THOS. WEDDIE, R. 2, WICHITA, KANSAS

SPOTTED POLAND HOGS

Standard or English bred, either sex. Special prices on young boars; have a few Hampshires. All hogs rose and immunized. C. W. WEISENBAUM, Atamont, Kan.

SPOTTED POLAND CHINAS

Bred sows and gilts at farmers' prices for the next 30 days at Cedar Row Stock Farm, A. S. Alexander, Prop., R. 2, Burlington, Kan.

LIVESTOCK AUCTIONEERS AND SALE MANAGERS.

BOYD NEWCOM

LIVESTOCK AUCTIONEER. Sell all kinds. Book your sales early. 217 BEACON BLDG., WICHITA, KANSAS.

P. M. GROSS, 410 West 12th Street, KANSAS CITY, MO.

Homer Rule, Ottawa, Kan. Specializing in purebred sales. Secure your date early. Address as above.

Jas. T. McCulloch, Clay Center, Kan. My reputation is built upon the service you receive. Write, phone or wire.

A. D. McCULLOUGH, Tonganoxie, Kan. Livestock Auctioneer. Special attention to purebred sales.

Fred L. Perdue, Auctioneer 4159 Tejon Street, Denver, Colorado. Sales made anywhere, any time.

LAFE BURGER, WELLINGTON, KAN. FRANK GETTLE, Livestock Auctioneer 1033 Broadway, Kansas City, Mo. Efficiency First. For open dates address as above.

Poland China Sows and Gilts

from our prize-winning herd. Bred to grandsons of Liberator and Big Bob. Also fall pigs. We ship on approval.

PLAINVIEW HOG & SEED FARM, Frank J. Rist, Prop., Humboldt, Nebraska

Silver Dale Farm Polands

I am not holding a public sale this year. For that reason my offering at private sale is exceptional. I am offering some real sale attractions, the best in my herd. They include daughters of Model Wonder, Great Master, Golden Gate Defender and Giant Bob Wonder. Gilts all bred to Jumbo Joe; tried sows to Golden Gate Defender and Giant Bob Wonder. If you want good ones, these will please you. They are priced to sell quick. Correspondence promptly answered.

O. E. STRAUSS, SILVER DALE FARM, Route 1, Milford, Kansas

POPULAR POLANDS

Bred sows and gilts for March and April farrow. Tried sows bred to Hill's Col. Jack, a wonderful son of the noted Col. Jack, \$75 to \$80; registered. Hill's Col. Jack gilts bred to Giant Liberator, a great son of the famous Liberator, \$65; immunized. Satisfaction guaranteed.

W. H. HILLS, MILO, KANSAS

Satisfaction Guaranteed

We offer just the top of 50 last fall gilts out of our big sows of Big Bob and Giant breeding. Boars, same age. Pedigree with each one. Prices very reasonable.

J. RAHE & SONS, Waterville, Kansas, or Winkler, Kansas

The Better Kind

of Poland Chinas at farm prices. Choice bred sows and some fall boars and gilts for sale. Address: MYERSDALE FARM, Gardner, Kansas

BIG TYPE POLAND CHINAS

For sale. Yearling herd boar \$75, a few fall gilts \$30. Sired by Orphan Wonder 108922, Grand champion at Wichita Stock Show 1921. Timming Guaranteed. Pedigrees furnished. F. M. SIMON, COLWICH, KANSAS

Poland China Special

If taken at once will sell three fall gilts, and a boar for \$60.00. Buster Jones breeding. Also some boars and good bred sows for sale cheap.

Frank L. Downie, R. 4, Hutchinson, Kansas

Big Black Polands

Summer and fall boars and gilts that are growing, and priced to sell. Also a few fall yearling gilts that are bred extra good.

E. M. WAYDE, R. 2, Burlington, Kansas.

Purebred Big Type Poland China Gilts

Mated to purebred boar to farrow in April, will trade for big jack. Am a mule raiser. If you are a hog raiser we trade.

W. B. CREIGHTON, PROTECTION, KAN.

THE LONE CEDAR POLANDS

Gilts bred to The Yankee Jr. for April farrow, now ready to ship. Also some extra fine boar pigs of fall farrow by The Yankee Jr. He is bred the same as The Rainbow. A. A. MEYER, McLOUTH, KAN., R. 2.

Poland China Bargains

Service boars, bred sows, and gilts; 40 fall pigs. Sired by 1100 lb. boar, out of 700 to 800 lb. sows. Immunized and guaranteed as represented.

OTTO FLAGAMANN, ALLENTON, MO. POLAND CHINA BOARS High class big type Poland China boars at farmers' prices. We send C. O. D. if desired. G. A. Wiebe & Son, R. 4, Box M, Beatrice, Neb.

HAMPSHIRE HOGS.

Walter Shaw's Hampshires 200 head; registered; immunized; 35 tried sows bred; 50 gilts; service boars; best of breeding.

Wichita, Kan., R. 6, Tel. 3918. DERBY, KANSAS.

WHITEWAY HAMPSHIRE

Sold on approval. Choice bred gilts weighing 250 to 300 pounds with quality and breeding. A few tried sows and fall pigs.

F. B. WEMPE, FRANKFORT, KANSAS

DOGS AND PONIES

We accept advertising of only such purebred utility dogs for farm, ranch, poultry plant or home, such as Shepherds, Collies, Alredales, Terriers, or such hounds as are kept to protect herds and flocks from predatory animals.

Warning—Our guarantee does not cover transactions involving offers by advertisers to buy back offerings of animals sold by them.

REGISTERED SCOTCH COLLIE PUPPIES 2 mo. old; male pups, \$8 each; females, \$5.

L. A. Poe, Hännewell, Kansas

to ship to Kansas City for slaughter. Demand is sufficient to care for larger supplies without disturbing the strength in the market. Country buyers are taking all the pigs and thin hogs offered.

The sheep market, which last week reached the lowest level in a good many years past, advanced this week and prices were finally \$1.50 to \$2 higher than last week's close, and \$2 to \$3 higher than the low point last week. Lambs today sold up to \$10.75, yearlings up to \$8.50, ewes \$6.25, and wethers \$7.50. Demand is urgent.

The Wool Outlook

More inquiry for wool of all grades at Kansas City and Chicago has been in evidence during the week. Sales of large quantities of wool at country points have been consummated within the week, much of which was sold direct to manufacturers at prices ranging from 8 cents to 40 cents. Offers of 17 cents a pound for territory wools, flat basis, have recently been made and refused. Territory wools of the shorter staple termed French combing are quoted at 75 cents to 80 cents clean. Reports from Boston are to the effect that the wool market there has been only moderately active during the past week, but values are fairly steady there.

Dairy and Poultry Products

The cooler weather of the past week has had a tendency to cause a slight improvement in the dairy and poultry situation. Creamery butter advanced 2 1/2 cents a pound at the close of the week, making an advance of 6 1/2 cents for the week. Hens also advanced a cent. The egg market continued nervous, but no great changes took place.

The following prices are quoted at Kansas City on eggs for the close of the week: Eggs—Firsts, 30 cents a dozen; seconds, 26 cents a dozen; selected case lots, 36 cents. Demand for poultry was fair and the following quotations were made: Live Poultry—Hens, 26 cents a pound; broilers, 36 cents a pound; springs, 30 to 32 cents a pound; young roosters, 20 cents; stagg young cocks and old roosters, 14 cents; turkey hens and young toms, 40 cents; old toms, 37 cents; ducks, 26 cents; geese, fat and full feathered, 15 cents.

Demand for butter has improved and prices are better. Extra creamery butter in cartons is quoted at 52 1/2 cents a pound; bulk butter, 48 1/2 to 50 cents; packing butter, 15 cents; butterfat, 46 cents. The Kansas City cheese market also showed strength. The following prices prevailed: New York cream cheese, 28 1/2 to 29 cents a pound; grade 1 Limburger cheese, 24 1/2 cents; Swiss cheese, 54 cents; brick cheese, 28 to 28 1/2 cents; Longhorns, 28 to 28 1/2 cents; Daisies, 28 1/2 to 29 cents.

Exercise for Brood Sows

BY G. C. WHEELER

Hog raisers generally condemn corn as a feed for brood sows. It is the abuse of corn rather than its use which has led to this belief. Corn alone is a poor ration for brood sows. A mature sow should gain as much during the gestation period as she lost while suckling the pigs but this gain cannot be made solely with corn alone. Sows fed corn only are likely to produce weak, puny pigs, and frequently are feverish and irritable at farrowing time. Corn lacks the bone and muscle-forming material which is essential to grow and develop the pigs properly. Give the brood sows fine alfalfa, clover hay or soybean hay. Sows having all the fine alfalfa hay they will eat produce pigs with the appetites of wolves and strong and vigorous from the moment they are farrowed.

A brood sow never should be permitted to get lazy and sluggish. Exercise is as important as proper feed. Encourage exercise by scattering oats or other grain on a clean feeding floor. This will keep the sows on their feet and moving about for several hours daily.

Proper feeding and economy go hand in hand in maintaining brood sows thru the gestation period. They should have feed enough to gain at the rate of about 1/2 pound to 3/4 of a pound daily. The grain feed must be limited and when this is done the sows will eat considerable quantities of the legume roughages. No high protein concentrates need be fed when alfalfa hay is kept before the sows.

Public Sales of Livestock

- Hereford Cattle**
Apr. 12—Klaus Bros., sale pavilion, Bendena, Kan.
Apr. 14—Rawlins County Hereford Breeders' Association, H. A. Rogers, Atwood, Kan., Mgr.
- Polled Herefords**
March 24—Pawnee County Polled Hereford Ass'n., Larned, Kan., C. E. Cutler, Mgr., Larned, Kan.
- Shorthorn Cattle**
Mar. 7—J. L. Nairn, Pawnee Rock, Kan.
Mar. 16—E. M. Phillips & Son and V. A. Plymatt, Beverly, Kan. R. S. Kirk, Wichita, Kan., Sale Mgr.
Mar. 29-30-31—Central Shorthorn Assn. Show and Sale at Kansas City, Mo.
Apr. 6—Smith County Shorthorn Breeders, Smith Center, Kan.
Apr. 16—Sumner County Shorthorn Breeders' Association, Shallenberger & Andrews, Cambridge, Neb.
Apr. 17—A. Boya, Mgr., Wellington, Kan.
Apr. 18—Baldwin Red Farm, Conway, Kan.
Apr. 14—E. P. Flannagan, Chapman, Kan.
Apr. 14—F. S. Kirk, Wichita, Kan., Sale Mgr.
Apr. 14—J. P. Ray & Sons, Lewis, Kan.
Apr. 15—Shorthorn Breeders' Sale, Newton, Kan. O. A. Homan, Mgr., Peabody, Kan.
Apr. 16—Stafford County Purebred Breeders' Association, Stafford, Kan., R. Boyd Wallace, sec'y., Stafford, Kan.
Apr. 23—E. S. Dale, Protection, Kan.
Apr. 27—Northwest Kansas Shorthorn Breeders' Assn., Concordia, Kan. E. A. Cory, Sale Manager, Talmo, Kan.
- Polled Shorthorn Cattle**
April 12—Baldwin Red Farm, Conway, Kan.
- Holstein Cattle**
Mar. 9—J. J. Smith, Lawrence, Kan. High-grade cows.
Mar. 16—T. R. Maurer, Emporia, Kan.
Mar. 24—Molvane Breeders, Mulvane, Kan.
W. H. Mott, sale manager, Herington, Kan.
Mar. 25—Kansas Association, Topeka, Kan.
W. H. Mott, sale manager, Herington, Kan.
- Berkshire Hogs**
Mar. 16—T. A. Harris & Son, Laming, Mo.
- Poland China Hogs**
Mar. 12—Ed Frazier, Drexel, Mo.
March 15—J. H. Walton, Cuba, Kan.
May 17-18—Pickering Farm, Box A, Belton, Mo.
April 27—Fred Laptad, Lawrence, Kan.
- Spotted Poland Chinas**
Mar. 5—Wm. Hunt, Osawatomie, Kan.
Mar. 7—Miller, Jacoby & Haines, Huntsville, Mo.
Mar. 18—R. H. Stooker, Dunbar, Neb.
Mar. 19—R. B. Stone, Nehawka, Neb.
- Duroc Jersey Hogs**
Mar. 15—Zink Stock Farms, Turon, Kan.
Mar. 18—W. D. McCormick, Wichita, Kan.
April 23—Rule & Woodgett, Ottawa, Kan.
April 27—Fred Laptad, Lawrence, Kan.
Oct. 21—Stafford County Purebred Breeders' Association, Stafford, Kan., R. Boyd Wallace, sec'y., Stafford, Kan.
- Percheron Horses**
Mar. 7—J. L. Nairn, Pawnee Rock, Kan.
Mar. 17—W. L. McIlroy, Louisiana, Mo.
- Jacks and Jennets**
Mar. 15-16—L. M. Monsees, Smithton, Mo.
Mar. 17—W. L. McIlroy, Louisiana, Mo.

Sale Reports and Other News

Lobaugh and Duston's Shorthorn Sale
A. C. Lobaugh and M. Z. Duston, Washington county Shorthorn breeders, sold 57 Shorthorns in the sale pavilion at Washington, Kan., February 14, for an average of \$117. The offering was mostly young and in very ordinary condition. It was good useful cattle and will make the purchasers plenty of money. Both are continuing in the business and will have stock for sale next fall or winter.

Mather and Bungett's Duroc Sale
R. E. Mather and Dr. C. H. Burdett, Centralia, Kan., held a very successful Duroc Jersey bred sow sale in Centralia, February 15. It was a joint sale and 58 bred sows and gilts averaged \$51.65. The top was \$90, paid by Kempin Bros., Corning, Kan., for a two-year-old granddaughter of Pathfinder. The top of the gilt offering was \$86. The day was ideal and there was a good attendance. The sale was held in Doctor Burdett's barn and it was an all round good offering of well bred and well grown sows and gilts.—Advertisement.

W. L. Fogo's Duroc Sale
W. L. Fogo's Duroc Jersey bred sow sale at his farm near Burr Oak, Kan., last Tuesday, February 22, was well attended by both Duroc Jersey breeders and farmers. It was a windy, bad day to be out but it was a good attendance and while the average of \$60.50 on the offering of 43 head was not the real value of the offering it was nevertheless a good sale and Mr. Fogo was well pleased with it. He was pleased with the good attendance of his neighbors and the liberal buying by Jewell county farmers and breeders. Among the breeders from a distance who bought were W. W. Jones, Beloit, Kan.; L. L. Humes, Glen Elder, Kan.; and Mr. Luther, Alma, Neb. Victor Palmquist, Concordia, Kan., was there and a good offer but did not secure anything. The offering was presented in good form and was one of the best offerings sold in Kansas this winter. It was a cold, windy day and the fine hot lunch served by Mrs. Fogo and the church ladies was certainly appreciated.

The Kansas Duroc Sale Circuit
The first step in the extensive breed promotion campaign planned by the Kansas Duroc Jersey Breeders' association for the present year, consisted of four consignment bred sow sales advertised as "The Kansas Duroc Sale Circuit." These sales were held at Emporia, Topeka, Manhattan and Pratt the latter part of January and the fore part of February. The series closed in a blaze of glory at Pratt, February 10, where 28 bred gilts and sows sold for \$2,832.50, an average of \$101.16 each.
A total of 130 head sold in the four sales for \$7,470.50, an average of \$57.47 each. Of this number, 68 head sold for \$50, or more each, the average being \$77.43. Sixty-one herds of Kansas Durocs were represented in the four sales. The number of purchasers totaled exactly 80.
The sales were managed by Ralph Searle, Tecumseh, Kan., who was elected first vice president and sale manager of the state association at the annual meeting at Hutchinson, Kan., December 8. In commenting upon the results Mr. Searle said, "In advertising this circuit we endeavored to appeal especially to farmers, and we were more than pleased to find that fully half of these sows went

ADVERTISING SERVICE APPRECIATED

The following, from a letter to J. T. Hunter, who has charge of our livestock service in the south half of Kansas, tells its own story: "Well! hardly was your back turned when we decided we would take your proposition. We certainly do appreciate what you said about our herd in your field notes. We feel you did us a very great favor. The ad. too, sounds better, and we enjoyed your visit very much. We had visitors from north of Wellsville, Kansas. Said you had told them about the spots. Thank you again. Our home trade continues very strong.—Wm. Hunt, Osawatomie, Kan., Jan. 10, 1921.

HEREFORD CATTLE.



"Pick a Pickering" Hereford

Own a Bull Like Repeater 7th

Can you beat this, being sired by a grand champion. Repeater 7th has not failed to further exalt his lineage. Repeater 7th is a champion—a grand champion and is the father of seven grand champion bulls, he has delivered to these young bulls individuality and conformation. As like begets like just that sure you can depend on these young bulls, they will creditably head any herd and produce show ring as well as superior beef cattle.

We have a number of these bulls of various ages, also some heifers of the same breeding and you will never regret a dollar that you put into Repeater 7th cattle. Every one guaranteed to be breeders. You can buy this superior young breeding stock now at greatly reduced prices.

The most elaborate, extensive, and scientific breeding establishment in the world. FREE—Beautifully illustrated private sale catalog, sent on application.

Maj. Harlo J. Fiske, PICKERING FARM, Box A, Belton, Mo. Just south of Kansas City on rock road.



Hereford Bull Values

I have a dozen extra well bred and desirable bulls, coming yearlings to twos, that I will sell at \$100 to \$300 each. Come and see the whole herd; inspection will be appreciated.

FRANK E. CHEADLE, CHEROKEE, OKLA.

Hereford Bulls for Sale

10 2-year-olds; 14 yearlings; 12 9 months old; well grown; heavy boned; in good condition; priced to sell.

L. COWMAN, HERINGTON, KANSAS

RED POLLED CATTLE

FORT LARNED RANCH

200 HEAD OF REGISTERED RED POLL CATTLE

A number of choice one and two-year-old bulls and heifers from one to three years old.

E. E. FRIZELL & SONS, FRIZELL, KAN.

20th Century Stock Farm Registered Red Polls

We are offering bulls of choicest breeding; also cows and heifers from heavy milking dams.

Twentieth Century Stock Farm, Quinter, Kan.

Red Polls For Sale

Ten head of females. Seven nice yearling bulls, and my herd sire to close out my herd. Herd sire Napoleon Reuben 28735, a grandson of Elgen and Cossy, International Champions. Priced on quality.

T. G. MCKINLEY, ALTA VISTA, KANSAS

RED POLLED BULLS

Some extra fine registered bulls for sale. Write for prices and descriptions, or better come and see them. Herd bulls used in the herd were from the breeding of some of the best Red Polled herds in the country such as Luke Wiles, Chas. Graff & Sons and Mahlon Greenmiller.

GEORGE HAUS, LYONS, KANSAS.

Pleasant View Stock Farm Registered Red Polled cattle. For sale, a few choice young bulls, cows and heifers Halloran & Gambrell, Ottawa, Kansas

PLEASANT VIEW STOCK FARM For sale, 4 choice registered and high grade Red Polled bulls. T. B. tested. Albert H. Haag, Holton, Kansas

FOSTER'S RED POLLED CATTLE A few choice young bulls. C. E. Foster, Route 4, Eldorado, Kan.

RED POLLS. Choice young bulls and heifers. Write for prices and descriptions. Chas. Morrison & Son, Phillipsburg, Kan.

ANGUS CATTLE



20 Bulls

15 to 30 months old. Big, strong fellows. Priced reasonable.

J. D. MARTIN & SONS R. 2, Lawrence, Kan.

ANGUS CATTLE Some choice bulls for sale. GEO. M. McADAM, HOLTON, KANSAS

ABERDEEN ANGUS BULL Yearling, extra quality, at farmers' price. J. W. Alexander, Burlington, Kansas

AYRSHIRE CATTLE.

Linddale Farm Ayrshires

For Sale: A few good females, cows and heifers; one bull ready for service; your choice of 4 bulls, six months and younger, at \$100 each. Come and see them or write for descriptions at once.

JOHN LINN & SONS, Manhattan, Kan. SELLING REGISTERED ANGUS BULLS G. A. Cornell, Charleston, Kansas

into the hands of men who had never raised purebred hogs before. We call this real breed promotion.

"The sales were put on under the double handicap of insufficient time in which to arrange for them, and the worst financial depression that has effected the livestock industry in a generation. In view of these facts, the results are distinctly a credit both to the breed and the herds that were represented."

Plans are already being made for a repetition of the series next season, which will include the holding of at least one sale in each Congressional District.

The Opportunities of 1921

Feed is abundant and cheap. The Southwest has less than half a hog per capita and is relatively low on meat animals of all sorts. Prices for farm products are at the low ebb, and now before they swing back to normal, is the time to buy a few good purebred farm animals; a cow, a sow, a brood mare; some hens. Registered stock is selling at very reasonable prices—so reasonable that one ordinarily is not justified in buying grades for breeding purposes. To start with, why not get a few bred sows and gilts. Put them into vacant pens and set them at the lifelong job of producing more and better pork at a minimum of expense. Those interested, and many should be interested in the offerings advertised in this paper, should write to the person or the persons having livestock that appear to be suitable, and get catalogs which give more complete information than can be given in an advertisement. When writing for catalogs or information of any sort, one should tell the advertiser where he saw the advertisement. Advertising costs money, and it is worth money to the advertiser to know what results such advertising brings.

What Recent Sales Show

The succeeding observations concerning a series of nine Duroc sales recently held in southern Kansas are submitted by J. T. Hunter of the Capper Farm Press livestock service.

For the first week the sales averaged as follows: Jno. W. Pettford, \$88.50; Wooddell & Danner, \$70; W. D. McComas, \$89.50; Zink Stock Farms, \$105; G. M. Shepherd, \$85; Bert Anderson, \$56.

For the second week the averages were: Wm. Fuiks, \$77; W. A. Conyers & Son, \$70; R. C. Smith, \$72.

The averages, while not high, are far from low and are such that these farmer breeders made some money out of their sales being two to three times as much as the hogs would have brought for pork.

The cash was received in some of the sales for every hog sold, and in every sale at least three-fourths the sale total was received in cash. Money is more plentiful and bankers are now taking better care of their customers who want to buy improved breeding animals.

For the most part buyers, both neighbors and those attracted by farm paper advertising, were present to make their own selections, bidding by fieldmen being only a small factor. Each sale offering was distributed to an average of over twenty different buyers. Hog pens are empty and many farmers are anxious to buy one or two bred sows or gilts and start again to raising hogs, and they prefer to start with registered hogs.

No spectacular prices were paid, \$730 being the highest in two weeks and it was for a good boar worth the money as a herd header. With very few exceptions the top price and the bottom price of each sale were not far from the average of that sale. Farmers were at the ringside to buy good hogs to put in their hog pens at the life-long job of producing more and better hogs and were not buying for speculation. Buyers came early to each sale and looked over the offerings, selected their prospective purchases and at the ringside bid with deliberation. When the sale was finished, both the seller and his customers were satisfied. The quality of the offerings was much better this year than a year ago. Kansas herds are being improved both by constructive breeding and better care due partly to cheaper feed and partly to the feeling that the business now has a good future in this state.

The sales of the second week of the series were held by men younger in experience and less widely known than those selling the first week. In fact two of them had never before held public sales of hogs. Yet their averages measured up well with their older fellow breeders. The time has come when a farmer-breeder who has good quality registered hogs can use local and farm paper advertising to announce his sale and describe his offering and readily dispose of his surplus at a reasonable expense, to other farmers and farmer-breeders.

Prospects were never brighter for good business in registered hogs in this part of the country in which there are many good herds that have avoided price inflation and never have sold above their real worth. Money is increasingly available and bankers are now giving better backing to their farmer customers.

The Livestock Service of the Capper Farm Press

Is founded on the Kansas Farmer and Mail and Breeze, the Nebraska Farm Journal, the Missouri Ruralist and the Oklahoma Farmer, each of which leads in prestige and circulation among the farmers, breeders and ranchmen of its particular territory, and is the most effective and economical medium for advertising in the region it covers.

Orders for starting or stopping advertisements with any certain issue of this paper should reach this office eight days before the date of that issue. Advertisers, prospective advertisers or parties wishing to buy breeding stock, can obtain any required information about livestock advertising, or get in touch with the manager of any desired territory by writing the director of livestock service, as per address at the bottom.

Following are the territory and office managers: W. J. Cody, Topeka, Kansas, Office. John W. Johnson, Northern Kansas. J. T. Hunter, So. Kan. and W. Okla. J. Cook Lamb, Nebraska. Stuart T. Morse, Okla. and S. W. Mo. O. Wayne Devine, Western Mo. George L. Borgeson, N. E. Neb. and W. Iowa. Ellis Hall, E. Mo., E. Ia. and Ill. T. W. Morse, Director of Livestock Service Kansas Farmer and Mail and Breeze Topeka, Kansas

DUROC JERSEY HOGS

DUROC JERSEY HOGS

Zink Stock Farms Sale of Durocs

Turon, Kan., Tuesday, March 15

Tried sows, fall yearlings, spring gilts. The greater part sired by our Uneeda High Orion, one of the most favorably known sires in Kansas and the Southwest. There will be some Sensation and Pathfinder bred gilts. One special feature of the sale will be a Pathfinder spring gilt.

Nearly all the offering will be bred to our great big junior herd sire, Great Sensation Wonder by Great Sensation.

This offering is a group of females that we could not get bred in time for our February sale. It will be a nice offering and you will appreciate it. Be with us at Turon, Kan., March 15. Write today for catalog. Please mention Kansas Farmer and Mail and Breeze.

Zink Stock Farms, Turon, Kansas

Jno. D. Snyder, auct. J. T. Hunter will represent the Mail and Breeze.

McComas Spring Duroc Sale

Wichita, Kansas, Friday, March 18, 1921

5 tried sows, 20 spring gilts and 5 fall boars

REASON FOR HOLDING A SPRING SALE: Could not get these spring gilts bred in time to be able to guarantee them safe in my February sale. The number now bred with a few tried sows and boars will justify an offering at public auction. Sows and gilts will be well along in pig by March 18.

The 5 fall boars are tops from a large number of fall boars. Rather than carry them over we will sell them now and recommend them to buyers soon needing good boars. The 5 tried sows are offered to help make the offering large enough to justify holding a sale.

The offering is close up in the blood of Pathfinder, Great Sensation, and Jack's Orion King 2nd, and the sows and gilts are bred to the McComas boar, Pathrion that was the 1920 grandchampion at Topeka fair and to Royal Sensation by Great Sensation.

Buyers at the McComas Feb. 2 sale liked the offering. The spring sale will have the same breeding in good individuals.

Sale at Thomas Fruit farm just West of town. Please mention Kansas Farmer and Mail and Breeze. Write today for catalog. Address

W. D. McComas, Box 455, Wichita, Kansas

Boyd Newcomb, Auctioneer. J. T. Hunter will represent Kansas Farmer and Mail and Breeze.

DUROC JERSEY HOGS

DUROC JERSEY HOGS

PATHFINDER SPRING GILTS

as well as fall boars. Some sired by Pathfinder. Registered, immuned, guaranteed. We prepay express charges.

OVERSTAKE BROS., ATLANTA, KANSAS

BRED SOWS AND GILTS, FALL PIGS

12 sows and gilts bred to Great Wonder Model or Pathfinder Graduate for March, April and May farrow. Fall pigs either sex 90 to 140 lbs. shipped on approval. Write your wants to

HOMER DRAKE, STERLING, KANSAS

Duroc Bred Sows and Gilts

Sired by Pathfinders Image 273101 and Peerless Pathfinder 342649. They are bred to Greatest Sensation, a great herd boar. Sacrifice prices or one half value for quick sale. W. R. HUSTON, Americus, Kan.

VALLEY SPRING DUROCS

Big-type bred sows and gilts; boars all ages; Sept. pigs unrelated; popular breeding; registered; immuned; priced right; good terms. E. J. Bliss, Bloomington, Kan.

SEARLE DUROCS Better Every Year Since 1883

Stock of all ages for sale. Circular free. Searle & Searle, Tecumseh, Kansas

MUELLER'S DUROCS

Bred sows and gilts. Boars ready for service. Pigs, either sex. Pathfinder strain. Priced to sell. W. K. Mueller, St. John, Kan.

REGISTERED DUROC BOARS, \$30 AND \$35

Bred sows and gilts, fall boars and gilts, at farmers prices. G. W. Hageman, St. John, Kansas

THREE FALL DUROC SOW PIGS

Registered and immuned, \$20.00 each. D. C. McClintock, Delphos, Kansas

CHESTER WHITE HOGS.

Silver Leaf Chester Whites

Sept. boars from fine big type sows, and sired by a fine son of Wildwood Prince Jr. From litters of 8 to 12 pigs. Priced to sell. Will ship on approval. C. A. CARY, Route 3, EDNA, KANSAS

BOOKING ORDERS FOR CHESTER WHITES

Sows farrowing now. Book your orders. Have some fall boars. Real herd sire prospects. E. E. Smiley, Perth, Kan.

CHESTER WHITE BRED GILTS

Farrow in March. Prince Tip Top breeding. J. C. Davidson, Tonganoxie, Kansas

O. I. C. BRED GILTS, \$30.00 EACH

E. S. Robertson, Republic, Missouri

CHESTER WHITE BOARS AND GILTS by

Bob Tip Top. W. H. Lynch, Neosho Rapids, Kan.

BIG BONED STRETCHY CHESTERS—Bred

gilts and boars. Vergy Curtis, Larned, Kan.

BERKSHIRE HOGS.

BRED BERKSHIRE SOWS, RED POLLED BULLS, Victor Farm, Lawrence, Nebraska.

250 BRED SOWS

Durocs with bone. Tried sows, spring and fall gilts bred to Pathfinder and Sensation boars, guaranteed immune, and in farrow. Pay after you receive them.



F. C. CROCKER, BOX B, FILLEY, NEB.

Big Type Duroc Spring Boars and Bred Gilts

Pathfinder and Great Orion Sensation breeding. Every one immuned. These are from giant sows. If you want the best, and priced worth the money write

G. M. SHEPHERD, LYONS, KANSAS

Woodell's Durocs

Some good spring and summer boars at farmers' prices to move at once; most of them sired by Chief Wonder, first aged boar at both Kansas fairs, 1920.

G. B. WODELL, WINFIELD, KANSAS

CHOICE BRED DUROC GILTS

From big type Duroc sows, of Pathfinder, Great Sensation, and Cherry King Orion breeding. High quality individuals. Priced low to sell quickly.

J. A. REED & SON, LYONS, KANSAS

Fogo's Duroc Sale Feb. 22

A valuable offering of sows and gilts bred to Fogo's Invincible, High Sensation Jr., Supreme Pathfinder and Stylish Orion. Send your name for our mailing list.

W. L. Fogo, Burr Oak, Kan. (Jewell County)

Sensation and Pathfinder

Good spring boars at \$40 each; extra gilts by Climax Sensation and Pathfinder Orion and bred to High Orion for spring farrow; also tried sows bred; August pigs, either sex. Prices will suit.

Henry Woody, Barnard, Kan., Lincoln County

Bred Gilts and Boars

Extra good big type gilts bred for spring farrow. Best breeding of the Sensations, Crimson Wonders, Orions, and Cols. families. All immuned and priced right.

ERNEST A. REED, R. 2, LYONS, KANSAS

Extra Good Bred Gilts

spring and summer yearlings of Pathfinder and Orion breeding bred for September farrow to High Orion Sensation and Chief Pathfinder. Young herd boars by Pathfinder and Great Orion Sensation. Write us about good Durocs.

GWIN BROS., MORROWVILLE, KAN.

REGISTERED DUROCS FALL PIGS

Either sex; also a number of older males and gilts; all well grown and good ones. J. E. Weller, Holton, Kan.

DUROC SPRING BOARS AND GILTS

For immediate shipment. Priced reasonable. R. F. GARRETT, STEELE CITY, NEB.

SHORTHORN CATTLE

SHORTHORN CATTLE

Central Shorthorn Breeder's Association Show and Sale

75 Bulls

March 29, 30, 31, 1921

125 Females

Fine Stock Pavilion
Kansas City, Missouri

BULLS—The best opportunity of the year to secure the sort of bulls needed in the Better Sires Campaign carried on in Missouri, Kansas and Oklahoma. There will be a few outstanding individuals of the breeding, type and quality necessary to work improvement in the purebred herds.

FEMALES—Ten heifers imported as suckling calves or in dam. Sixty Scotch cows and heifers of breeding age bred to the best herd bulls in the Missouri Valley. A large number of Scotch topped females suitable to go on to farms where purebred cattle will profitably replace grades in the production of beef and milk.

The consignments to this sale come from some of the best herds in Missouri and Kansas. Almost all of them were bred by consignors. They will sell within the reach of beginners and of farmers.

March 29, Show, Judging of All Classes. March 30-31, Sale, 75 Bulls, 125 Females

W. A. Cochel, Sales Manager, Baltimore Hotel, Kansas City, Mo.
Auctioneers: Gross, Milne and Burgess.

Shorthorn Sale, Beverly, Kan., March 16

at the Phillips Farm, one mile east and three miles north of Beverly

37 Scotch and Scotch Topped Dual Purpose Shorthorns

Including 20 highly useful money making females, 17 thick fleshed easy feeding bulls ready for service. Well bred close descendants of the following famous grand champion bulls: Lavender Viscount, Avondale, The Lad For Me, Whitehall Sultan, Roan Hero, The Professor, etc. This is a splendid lot of well bred and well grown cattle. As the sale is not extensively advertised it will be a good opportunity to secure high class Shorthorns at reasonable prices. Make sure that you get a few of the good ones. Catalogue mailed free on request to either

E. M. Phillips & Sons, Beverly, Kan., or V. A. Plymott, Barnard, Kan., Owners.
F. S. KIRK, Sales Manager, WICHITA, KANSAS

Northwest Kansas Shorthorn Breeders Association

There are 300 Shorthorn breeders in the 30 counties which is the territory of this big association. All are invited to attend the big annual association spring sale at

Concordia, Kansas, Wednesday, April 27, 1921

50 females, half straight Scotch, others choice Scotch tops. The 15 young bulls are pure Scotch. Concordia business men's banquet to visiting Shorthorn breeders evening before the sale. Annual association business meeting morning of the sale.

Important—Requests for sale catalogs should be sent at once to

Ed Cory, Association Sale Manager, Talmo, Kansas

1886 Tomson Bros. Shorthorns 1921

200 head in the herd representing the most popular Scotch families. Just now we are offering a nice lot of Scotch bulls by Village Marshall and Beaver Creek Sultan. Prices moderate and within the reach of all. Address

Tomson Bros., Wakarusa, Kansas or Dover, Kansas

LOOKABAUGH SHORTHORNS



Now Is the Time To Buy Range Bulls

Comb to Oklahoma to buy range bulls in car lots. These bulls raised and developed in the open make them especially desirable for range purposes. Write me your wants and I will gladly assist you in selecting one or more car loads of bulls from the breeders of this state.

H. C. LOOKABAUGH, Watonga, Oklahoma



Combined with the blood of Fair Acres Sultan

Abbotsford Shorthorns

Choice young bulls, reds, roans and whites. Six to fourteen months old. Also bred cows and open heifers. Can ship over Missouri Pacific, Rock Island and Santa Fe. Farm three miles south of Herington. For descriptions and prices, address,

T. A. Ballantyne, Herington, Kansas

CATTLE WANTED

In trade for land near Wichita. Will consider either registered or high grade cattle.

PARK E. SALTER, 4th Nat'l Bank Bldg., Wichita, Kan.

Genuine Herd Bulls by Master of the Dales and out of Collynie Bred Cows

Master of the Dales bulls are proving themselves splendid breeding bulls and we can show you a few real bulls of first class herd heading character.

They are a practical, husky and well grown lot that will appeal to breeders wanting bulls of real merit.

H. M. Hill, LaFontaine, Kan.

Shorthorns, Size, Quality Bulls—Heifers

A number of choice bulls and heifers by Soberleties Clipper, and White Dale. My prices are very reasonable. Write your wants.

C. F. Sandohl, Wakefield, Neb.

MONDAMIN SHORTHORNS

Scotch Bulls
Size—Quality—Individuality—Breeding
15 yearling and 2-year-old bulls by Golden Sultan, Royal Butterfly and Cumberland Crest; also a number of range bulls for sale. All are priced to sell.
HELD BROS., HINTON, IOWA

SHORTHORNS, PRIVATE SALE

Cows bred, yearling heifers and bulls from seven to 12 months old. Priced right and sold in lots to suit purchaser. The blood of Choice Goods, Cumberland's Last and Red Knight predominates. Parties met at Wanego. Six trains each way daily. Phone 3218 Wanego.
W. T. Ferguson, Westmoreland, Kansas

Scotch and Scotch Tops

A splendid lot of young bulls ready for service. Scotch and Scotch topped. Write for descriptions and prices.
E. P. FLANAGAN, CHAPMAN, KANSAS

ILLUSTRATED LEAFLET. "Milking Shorthorns Make Beef and Butter Profitably," with names of breeders sent free. Milking Shorthorn Society, Dept. D, Independence, Iowa.

Field Notes

BY J. W. JOHNSON

Someone needing a competent man for work on a dairy farm will do well to write E. H. Klesath, care Lilac Dairy Farm, Route 2, Topeka, Kan. Mr. Klesath, who is married and has two children, has been with the Lilac Dairy Farm six years but the disposition of the Lilac Dairy Farm herd will give someone else a chance at his services.—Advertisement.

W. R. Huston Offers Good Durocs

W. R. Huston of Americus, Kan., is offering a high class lot of richly bred Duroc bred sows and gilts at sacrifice prices for quick sale. They are sired by Pathfinder's Image 273101 and Peerless Pathfinder 342649 and bred to Greatest Sensation, a real herd boar. They are good individuals and anyone wanting high class Duroc sows and gilts should look up Mr. Huston's ad in this issue and get in touch with him at once. These sows and gilts will go quick at the prices quoted on them.—Advertisement.

Northwest Kansas Shorthorn Breeders' Sale

The northwest Kansas Shorthorn breeders' annual spring sale will be held in the sale pavilion, Concordia, Kan., April 27. Ed Cory, association sale manager, says this will undoubtedly be the best lot of cattle ever consigned to any of their previous association sales. About 20 breeder members of the association are consigning. The Concordia commercial club will entertain everybody again with a banquet and entertainment. For the sale catalog write at once to Ed Cory, Talmo, Kan.—Advertisement.

J. H. Walton Sells Polands March 15

J. H. Walton, Cuba, Kan., Republic county will sell Poland China bred sows at his farm near that place, Tuesday, March 15. He will sell 15 tried sows and fall yearlings and 15 spring and early summer gilts. Also two real herd boars that he desires to sell because he is thru with them. For some time Mr. Walton has been engaged in the Poland China business and has shipped stock all over the country. His breeding is of the most fashionable blood lines and if you are at all interested in choice breeding and big, useful Poland Chinas you should write today for the catalog. Address, J. H. Walton, Cuba, Kan.—Advertisement.

Phillips and Plymott Shorthorn Sale

E. M. Phillips & Sons, Beverly, Kan., and V. A. Plymott, Barnard, Kan., both well known breeders of Shorthorn cattle, will hold a joint sale at the farm of E. M. Phillips & Sons one mile east and four miles north of Beverly, Kan., Wednesday, March 16. Thirty-seven Scotch and Scotch topped Shorthorns will be sold. It is a splendid lot of well bred and well grown cattle and breeders and farmers should attend who want to buy Shorthorns of the working kind. The catalog is ready to mail and will be sent upon request to either firm. F. S. Kirk, Wichita, Kan., will manage the sale.—Advertisement.

Rahe & Sons' Poland Chinas

J. Rahe & Sons, Winkler, Kan., Riley county and who also get their stock at Waterville, Kan., which is near their farm, are Poland China breeders who are building up their reputation for square dealing and for the high quality of their herd by selling nothing for breeding purposes but the very best. In this issue of the Kansas Farmer and Mail and Breeze will be found their advertisement in which they offer just the tops of 50 splendid last fall gilts sired by a good boar and out of their Big Bob and Giant sows. They also have some boar pigs of the same age and breeding for sale. If you want to start in the Poland China business write them for prices on these gilts and you will find their prices very reasonable.—Advertisement.

Shungavally Holsteins Make Records

The Shungavally Holstein herd owned by Ira Romig & Sons of Topeka, is one of the good producing herds now in Kansas. During the past year they have placed 23 head on the advanced registry list and their records ranged from 14 to 17 pounds for junior 2-year-olds up to 25 pounds for mature cows. A junior 3-year-old from one of their King Segis Pontiac granddaughters made a record of 20 1/2 pounds. A junior 2-year-old from the same sire made a record of nearly 17 pounds. A junior 3-year-old from a daughter Walker Copla Champion made a record of nearly 24 pounds. They have 11 head on long time test with prospects that they will make very creditable records. Two junior 2-year-olds have been on test about seven months and are still milking over 40 pounds a day. Bessie DeKol Walker reached 93 pounds a day. As a junior 2-year-old this cow made a record of 505 pounds butter and 13,500 pounds milk in one year. As a 4-year-old she made a record of nearly 24 pounds of butter with an average of 82 pounds milk in seven days. A feature of their herd at this time is the young daughters of their Konigen sire. The oldest is now a little more than a year old. They are very fine in quality, and have wonderful udder development and are outstanding prospects in every way.—Advertisement.

Kansas Holstein Association Sale

The Holstein-Friesian Association of Kansas will hold their fifth annual spring sale at Topeka, Kan., Friday, March 25. It will be held in the usual place, the big modern sale pavilion at the fair grounds. It follows the Mulvane breeders' sale at Mulvane, Kan. (a few miles from Wichita) on Thursday the day before. Everybody will leave Wichita that evening for the big annual meeting and sale at Topeka. These association sales, one in Topeka in March and the other in Wichita in November, have proved popular events in Holstein affairs. The membership of the Kansas association is now over 400, these sales consigned to by the membership itself have been no small factor in making this the largest and most popular livestock association to protect and further the Holstein business in Kansas and in these annual and semi-annual sales each spring and fall are consigned cattle that are parted with by these association members reluctantly but to their willingness to do it each time an association sale is held is due the popularity of the big Kansas association and their spring and fall association sales. Nearly 100 head will be consigned by Kansas breeders in this coming sale and there will not be a common individual in the sale. Every animal is carefully inspected before it is cataloged. Every consignor knows the

SHORTHORN CATTLE

Scotch and Scotch Tops

Some dandy Scotch bulls and Scotch topped from 6 to 16 months old. Roans, white and red. Some females for sale. Address
S. B. AMCOATS, CLAY CENTER, KANSAS

Bulls Priced Right

A nice lot of Shorthorn bulls from yearlings up to 20 months. Close prices to move them quick.
C. W. TAYLOR, ABILENE, KANSAS

POLLED SHORTHORNS.



POLLED SHORTHORNS

"Roan Orange," "Sultan's Pride," "Scottish Orange," and "Grand Sultan." Weight 4 tons. Heads herd of nearly 200 reds, whites and roans. 20 males and females, \$100 upward. Tuberculin test, registration, and transfers free. Will meet trains. Phone 2803 at our expense.
J. C. Banbury & Son, 1 mile west of Plevna, Kan.

POLLED SHORTHORNS

Big husky bulls. A few females. Forest Suitana, a 5-year-old Scotch bull, is for sale.
C. M. Howard, Hammond, Kansas

HOENLESS SHORTHORN SALE APRIL 12
Baldwin Red Farm,
McPherson County, Conway, Kansas

POLLED SHORTHORN BULLS
Several good ones, 9 to 20 months old.
R. T. Vandeventer & Son, Mankato, Kansas

TWO POLLED SHORTHORN BULLS
for sale. Dark red, good individuals.
Easter Bros., Abilene, Kansas

SPECIAL OFFER POLLED SHORTHORNS
4 choice heifers, 3 bred, 1 Scotch bull, not related. **C. A. Berggren, Green Ridge, Mo.**

FOUR POLLED SHORTHORN BULLS
for sale. **D. C. Baumgartner, Halstead, Kan.**

GALLOWAY CATTLE

REGISTERED GALLOWAY BULLS, COWS
and heifers. Fashion Plate, Silver Lake, Kan.

BROWN SWISS CATTLE

Brown Swiss Bulls and Bull Calves
For sale, also high grade heifer calves. All from heavy milk stock. **W. H. LINVILLE, WINONA, KAN.**

JERSEY CATTLE

Hillcroft Farms Jerseys headed by Queens Fairy Boy, pronounced the best Jersey bull in Missouri, a Register of Merit son of Raleigh's Fairy Boy, the greatest bull ever imported, 54 tested daughters, 56 tested granddaughters and 34 producing sons. Choice bull calves for sale. Reference Bradstreet
M. L. GOLLADAY, PROPR., HOLDEN, MO.

3 Reg. Jersey Bull Calves For Sale
From 1 to 3 months old. Sired by a grandson of Jacoba Irene and from high producing dams. Priced \$25.00 each or will trade for heifer calves.
L. A. POE, HUNNEWELL, KANSAS

TESSORO PLACE JERSEYS

One of the largest Register of Merit herds in the state. We won \$1,300 at four state fairs this fall. A choice lot of bull calves, grandsons of Financial Counties' Lad out of Register of Merit cows. Other stock for sale.
R. A. GILLILAND, MAYETTA, KANSAS

Seantlin Jersey Farm, Savonburg, Ks.
Financial Kings, Raleigh and Noble of Oakland breeding.

FOR SALE—20 HEAD OF JERSEY COWS
and heifers. Fresh and heavy springers.
E. H. Kneppler, Broughton, Kansas

REGISTERED JERSEY BULLS FOR SALE
Hood Farm breeding. \$50.00 each. Credit if desired. **Percy Lill, Mt. Hope, Kansas.**

HOLSTEIN CATTLE



Messrs. Robinson & Schultz Independence, Kansas

write:

"Three years ago in September we bought a Holstein cow for \$240. This cow has produced \$2,520 worth of milk in three years, and it cost us \$800 to feed her. Her four heifers are worth \$2,200. This cow has brought a net profit into our herd of \$3,400."

Send for free booklets.

The Holstein-Friesian Ass'n of America 292 American Bldg., Brattleboro, Vt.

When writing advertisers mention this paper.

strict requirements of the sale management for these association sales and he is careful to consign only such animals as will come up to the high standard of the association. When Mr. Mott asks for consignments for an association sale it is never a question of what the members would like to sell but what have you that will help make this the best sale we have ever held. That is the spirit that has built up the Kansas association to its present popular position. The catalogs are now ready to mail and you should write to W. H. Mott, association sale manager, Herington, Kan., at once. These catalogs are expensive and cannot be sent out generally without the sale manager knows that you would like to have it. But it is free for the asking. You are welcome to it if you are interested in Holsteins whether you are a buyer or not. Early inquiries are appreciated. The Topeka chamber of commerce will put on a banquet for the breeders and their friends the evening of the sale. It is also the date of the annual meeting. The catalog tells the whole story.—Advertisement.

BY J. T. HUNTER

Hereford bulls at \$100 to \$500 are for sale by Frank E. Cheadle of Cherokee, Okla. Mr. Cheadle has a fine herd; the bulls are desirable and well bred and a visit to the herd is worth while.—Advertisement.

Homer Drake's Durocs

Homer Drake of Sterling, Kan., is offering a good lot of Duroc bred sows and gilts for sale. They were sired by the first junior yearling boar, Great Wonder Model, at Kansas State fair; Pathfinder Jr., Great Pathfinder I Am, Crimson Illustrator and Pathfinder Junior's Equal, and most of them are bred to a good son of Pathfinder Jr. Dam Queen of Graduate, a two time state fair grand champion sow. He is also offering a good lot of fall pigs.—Advertisement.

W. D. McComas Holds Another Duroc Sale

W. D. McComas, Wichita, Kan., had one of the best sales of the Kansas Duroc circuit held the first week in February. It was one of the best because with an average of \$89.50 both Mr. McComas and the buyers were satisfied. Mr. McComas was disappointed in not being able to put more of his spring gilts in that sale as he had originally planned but there were a number that were not bred in time to justify Mr. McComas in guaranteeing them safe in pig at the time of the sale, February 2. A number of these, 20 or more are now safely showing with pig and to these will be added five tried sows and five fall boars to make an offering large enough to justify a sale. This sale will be held Friday, March 18. The offering will be of the same blood lines as those sold in the February sale and bred to Pathrion, the 1920 Topeka grand champion. The winter sales are over. The averages were quite satisfactory in most instances to both buyers and those who held sales and at each sale the hogs scattered out among farmers who immediately put them into their empty hog pens at the job of raising more and better pigs. Kansas is on a healthy basis now for hog production. The prospects for good business in hogs, purebreds especially, is good. This McComas sale offers a splendid opportunity to prospective buyers of a few hogs because the quality of the offering is good and the spring sales will be few and far between. This McComas sale is highly recommended to prospective Duroc buyers. Write W. D. McComas, Box 455, Wichita, Kan., for a catalog. Please mention Kansas Farmer and Mail and Breeze.—Advertisement.

BY E. S. HUMPHREY

Central Shorthorn Breeders Show and Sale

The Central Shorthorn Breeders Show and Sale at Kansas City, Mo., March 29-30-31, will be one of the big events of the season in Shorthorn circles. The show and judging of all classes will be held March 29, the first day. On March 30 and 31, 75 bulls and 125 females will be sold. The offering of bulls will include some outstanding individuals that would be herd improvers in good purebred herds. The offering of females will include 10 heifers, imported as calves or in dam. Sixty Scotch cows and heifers of breeding age bred to the best herd bulls in the Missouri Valley. The entire consignment will come from some of the best herds in Missouri and Kansas.—Advertisement.

Register Your Jack Stock

There are still a few breeders owning jack stock who do not realize that the animals will be worth more if they are registered with a recognized registry. Many owners are fast coming to the point that they believe something is wrong with the jack that is not so recorded. Of course there may be something wrong—the jack may not be able to meet the requirements for registration. If this is the case the mare owners are right in not breeding to the jack for it takes the big jacks, with big blood behind them, to produce the big mules that sell for high prices. Then, too, if jacks are good ones their owners will want to show them and all of the more important shows in the United States require that jack stock must be so recorded before being shown. If you have an unrecorded jack or if one is standing in your community have it recorded at once if it will meet the requirements. To do so will put a higher valuation on every mule sired by it. Find out about the jacks in your county now and put your county on the mule map of America.—Advertisement.

The 1921 Percheron Review

The Percheron Review for 1921 is a bigger, better book than ever. As usual this annual review of the Percheron business is being sent direct to all members of the Percheron Society of America the anyone else interested in Percherons may receive a copy by writing to Ellis McFarland, Sec'y, Union Stock Yards, Chicago, Ill., stating the size of the farm he operates, how many Percheron horses he is using or any other data that would show his interest in the Percheron breed. In going over an advance copy of the Review I was impressed with the amount of space given to good photos of Percherons. It is one of the greatest lessons in breed type and character I have ever seen. The article on "The Business of Selling Percherons" is worth the time of every man with a horse to sell. U. L. Burdick of North Dakota gives the true situation of the horse business today in convincing terms. From cover to cover it is a mighty good book and will be worth having and keeping if you are interested in horses and Percherons in particular.—Advertisement.

Mulvane Holstein Breeders

First Annual Sale, at

Mulvane, Kan., Thursday, March 24, 1921

Seventy-five Head Selected from Our Show Herds

Cows with A. R. O. records.
Heifers with A. R. O. records.

Bulls from dams with 30 pound A. R. O. records.
Daughters from dams with A. R. O. records.

An A. R. O. Record Sale

This will be our first sale and it is our purpose to make it so attractive that young breeders will look forward from year to year to the Mulvane breeders sale.

We formerly announced this sale for February 25th, but the date has been advanced to March 24th, the day preceding the State Association sale at Topeka. Make your arrangements to attend both sales. Write today for a catalog of both sales to

W. H. Mott, Sales Manager, Herington, Kansas

Auctioneers: Mack, Newcomb and Ball. Wood in the box. C. L. Goodin, President Mulvane Breeders' Assn.

Kansas State Sale

The Kansas State Holstein-Friesian Ass'n

will hold its Fifth Annual Sale at the Fair Grounds at

Topeka, Kansas, Friday, March 25, 1921

The Kansas State Association has made a phenomenal growth since its organization five years ago and the advancement in the improvement of our cattle has been equally as great.

Our show herd which won in five big shows last fall is evidence of the quality of Kansas Holsteins.

The State Sale admits nothing but high class cattle, not all high records, but good individuals. Many of our new breeders buy their first cattle in the State Sales.

The Topeka Commercial Club gives a banquet to all breeders the evening of the 25th, after the sale. You are invited.

The Mulvane Breeders hold their sale the day before. Arrange to attend both sales.

Write today for catalog to

W. H. Mott, Sales Manager, Herington, Kansas

Auctioneers—Mack, Newcomb and Crews. Wood in the box.

HOLSTEIN CATTLE

HOLSTEIN BULLS

To improve your dairy herd, from daughters of Alcartra Polkadot Corrector, Korndyke Queen DeKol's Prince; King Mead DeKol, and Aggie Cornucopia Johanna Lad 7th. Short of help, feed and room. Bargain prices. Write for what you want.

McKAY BROS., CADDOA, COLO.

BRAEBURN HOLSTEINS

Three yearling bulls from A. R. O. dams. One by Walker Copla Champion, whose dam and sire's dam held world records in their day, and one of whose daughters has held the Kansas state record for a year for any age, and another the state record for a year for senior 2s. Two by Count College Cornucopia, whose dam and sire's dam average 648 lbs. milk and 32.62 lbs. butter for a week. All ages younger, of like quality.

H. B. Cowles, 608 Kan. Ave., Topeka, Kan.

High Grade Holstein Heifer Calves

4 to 6 weeks, well marked, \$20 each. See them before you pay for them. A. L. Raschle, Lake Mills, Wis.

FOR HIGHLY BRED HOLSTEIN CALVES

Heifers and bulls, beautifully marked, from heavy producing dams, write

Fernwood Farms, Wauwatosa, Wisconsin

HOLSTEINS, SHORTHORNS, GUERNSEYS

Fancy high grade calves, \$14.00. Write Ed Howey, So. St. Paul, Minnesota

HOLSTEIN AND GUERNSEY calves, 31-32nds pure, 7 weeks old, \$25.00 each, crated for shipment anywhere. EDGEWOOD FARMS, Whitewater, Wis.

When writing advertisers mention this paper.

MAURER'S

Holstein Cattle Sale

Emporia, Kan., Wednesday, March 16

Fifty high grade Holstein cows and heifers. This is a choice lot of fresh and springer dairy stock. Sold under a 60-day re-test guarantee.

T. R. Maurer, Owner, Emporia, Kan.

Wood and Crouch, Auctioneers

J. J. Smith's Holstein Dairy Dispersion

Sale at the farm one and a half miles southeast of town.

Lawrence, Kansas, Wednesday, March 9

30 head, High Grade Holsteins. A working herd of real dairy cows. 14 cows, fresh now and to freshen soon. 15 yearling and two year old heifers. One yearling herd bull registered. 50 Duroc Jersey bred sows and stock hogs. All farm machinery, horses and farm equipment.

J. J. SMITH, Owner, Lawrence, Kansas
Homer Rule, auctioneer. Free autos from Eldridge Hotel.

HOLSTEIN AND GUERNSEY CALVES

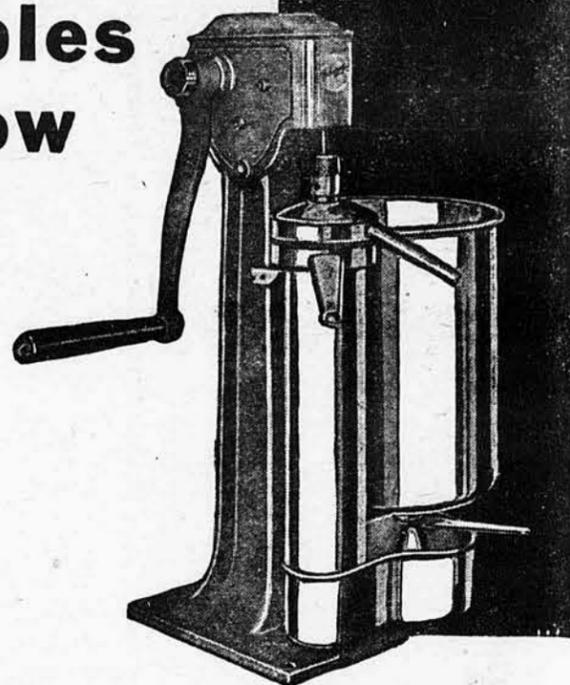
6 to 8 weeks old, \$25 each, crated for shipment. Reg. bulls crated \$50. We ship C.O.D. subject to inspection. Spreading Oak Farm, Whitewater, Wis., R. 1

75 Head of High Grade Holstein Cows and Heifers

Will take \$2,500.00 for choice of 20 head of fresh and springers. LONE STAR DAIRY, MULVANE, KANSAS

Here! The Famous Sharples Suction-feed Separator Now Priced so Low that Every Farmer Can Own One!

FOR the first time in the history of dairying, farmers can now buy for *less than fifty dollars*, a reliable, high-grade, standard cream separator, and the *only one* that skims clean at any speed! The Sharples Separator Company, with the oldest and largest separator factory in America, now offers the average American farmer the most certain profit-maker ever put on the market—the new



Sharples

TYPE

C

SUCTION-FEED CREAM SEPARATOR

200-LBS. CAPACITY

\$44

(Cash f. o. b. factory)

THIS TYPE C separator has every mechanical feature of the larger capacity types of the Sharples Suction-feed Separator—the most reliable separator in the world and the *only* separator that *skims clean at any speed*, and delivers cream of even density at any speed. The only difference: Type C is *smaller*—capacity 200 pounds; weight 40 pounds; 22¾ inches high.

Thousands of dairymen who have been forced to use "cheap" machines, that lose precious butterfat and go to pieces quickly, can now get *100% profit from their butterfat* with Type C Sharples.

So great is our confidence in its efficiency, we plan to build 100,000 TYPE C machines this year

and it is on this basis of big and economical production, and of our unbounded faith that it will find a waiting and an enthusiastic market, that we price it at \$44. Mass production on a gigantic

scale will enable us to do what was never done before—offer a high grade, high class, standard separator at a price any farmer can afford.

The TYPE C Sharples is GUARANTEED to the limit. And a Sharples Guarantee means that the great Sharples business is back of the separator as long as it is in use. Durable—the only separator that skims clean at any speed—the only separator with a perfect automatic oiling system—the only separator without discs in the bowl—easiest to clean and keep clean; easy to operate—low cash price (only \$44) or, if you wish, easy monthly payments arranged under our special partial payment plan.

This new Sharples has everything in the standard Sharples Suction-feed! *It's the greatest opportunity you've ever had to get more profit from your dairy.*

You can afford to pay \$44 for this wonder-separator. *You can't afford to be without it.* It will earn its initial cost so quickly you'll be amazed.

The TYPE C SHARPLES skims clean at any speed

No other separator, *regardless of price*, can skim clean at any speed. *Sharples suction-feed principle is patented.* And few of the so-called "cheap" separators skim clean *at any time.* Yet—\$44 will buy you this standard Separator that gets *all* the butterfat *all* the time, at *any* speed! TYPE C SHARPLES will save you money *now* when you need every possible cent of profit.

Large enough to skim all the milk you get in the average farm dairy of a few cows. Small enough to enable us to sell Type C for a price that you can easily pay. And on easy terms if you wish.

WILL OUTLAST ANY OTHER

machine of its kind. The same expert workmanship that stands behind the larger capacity Sharples Separators insures 100% efficiency and life-long durability in Type C Sharples. And this great Company *absolutely guarantees* Type C in every way. We experimented several years to prove Type C perfect. *We will stand squarely behind every machine we sell.*

EASY PAYMENTS

You can either pay the entire cash price now, or you can arrange to pay under our easy partial payment plan with a small cash deposit and balance in easy monthly payments.

GET THE FACTS—Write Today

Learn how this wonderful new-type Sharples Separator will save its low purchase price over and over again by saving valuable butterfat that the ordinary separator invariably loses. Better still, send us check or money order for \$44, tell us the name of your dealer, and we'll ship you profit-maker TYPE C Separator without delay, f. o. b. West Chester, Pa.

THE SHARPLES SEPARATOR COMPANY, Address Dept. 15 WEST CHESTER, PA.

Branches: Chicago—San Francisco—Toronto

All Sharples Suction-feeds Reduced in Price!

Now's the time to buy your new separator. Altho manufacturing costs, prices of materials and labor costs have not as yet materially decreased, Sharples have anticipated lower prices for farm machinery after this readjustment period is over. Hence, prices of all standard Sharples Suction-feed Cream Separators are *reduced over 20%*. Prices are back to practically prewar level. Sharples share readjustment losses with the farmer. Remember—you can now buy the standard Sharples Suction-feed cream separator—at lower prices than for years past. And Sharples Suction-feed is the *only* separator that skims clean at any speed. *Get in touch at once with your Sharples dealer—or write us for literature.*