March 9, 1918

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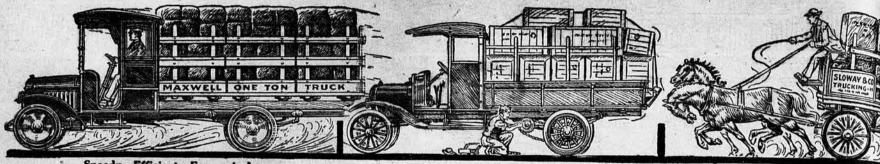
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FARMERS MAIL

AND BREEZE NO.



In This Issue



Speedy-Efficient-Economical

Makeshift-Uncertain-Costly

Slow-Uncertain-Costly

Be Cold Blooded When You Choose Your Truck —and Choose Now

As a business farmer, you must have a truck. Don't postpone decision longer. Buy now while you still can get one. Don't wait until only the money-wasting makeshifts are left.

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TOPEKA, KANSAS, MARCH 9, 1918

Machinery Aids in Increasing Yields

Kansas Farming is Coming to Depend More and More on Efficient Implements Which Have Been Designed With Care

ARM MACHINERY is going to work some mighty fast changes in Kansas agriculture this year in Kansas agriculture this year and in the next few seasons. This was the big lesson, as I take it, at the Kansas City and Wichita tractor shows, and from the talk one can hear every time he is with a group of farmers. Production must be placed on a new basis, and machinery will take a large place in this.

Probably the most encouraging thing Probably the most encouraging titing in farming has been the great increase in efficiency with all classes of machines in the last few years. If this were not true agriculture would be in a "dickens of a fix" today. And it is about time that we should realize the high value of machinery in making a greater production, based on the man unit of measurement, possible. In 1830 it took on an average 3 hours of a man's labor to produce a bushel of wheat; now it is said that it requires than 10 minutes. Tractors are reducing this time every year.

High Prices for Food.

And it certainly is important that this time required for production should be reduced. "There is some evidence," said Hugh McVey, advertising counselor of The Capper Publication tions, in an address before the farmers who attended the tractor show at Wichita, "in the present high price of Wichita, "in the present high price of foodstuffs that we are facing another period of starvation such as this nation had in the days of hand tools during which the American farmer was not able to produce much more food than enough to feed his own family. The possibility is remote but not putient impossible for there has been entirely impossible, for there has been but a small increase in the world's foodstuff production in recent years, attended by a heavy and steady increase in population and an increase in the quantity of food eaten by every individual thruout the world. The individual thruout the world. The prices of foods have had a steady, average increase since the over-production period ended in 1897. The European war is a contributing factor to the present high prices but is not entirely responsible for them. With the coming of peace and a resumption of an increase in the world's popula-tion—if it really has stopped during the war—we can expect the high prices of foodstuffs to continue.

"Every person in the United States on an average, between 5 and 6 bushels of wheat a year, and a family consumes an average of a half ton of meat a year. Under the new systems of farming fewer persons are heeded on the farms to produce a living for the world than formerly and persons are engaged in non-productive occupations and live in town. For example, a century ago more than nine-tenths of the people of the United States lived on farms and were directly dependent on agriculture for a living. In 1910 about one-third of the beople were engaged in agricultural occupations. ported a family and produced a small surplus to supply the needs of the few persons who lived in town. Today the farms are required to meet domestic and export needs. The domestic needs alone require every farm to suppport By F. B. Nichols, Associate Editor



Two Ways of Transportation; Machinery Is Developing in Efficiency Every Year, and It Pays for One to Keep Informed of This.

In other words, the labor shortage is a permanent feature of American pendence must be placed on machinery. Steel and iron and wood instead of human muscles must carry the load.

It will be better thus. This condi-tion will be helpful for all concerned; the intelligent farmer who is alive to the fundamentals of production will profit most of all. It places farming more and more in the skilled profes-sions, and skill is always well paid for. Naturally it is only the man who is alive to the changes which are going on around him who will profit most from this condition.

What should a man do to keep alive to the situation? There are two main fundamentals I believe. The first is

three families—the one that lives on the farm and tills its fields and two that are living in town. And soon every farm will be asked to support four families."

In other words, the labor shortage three families on the farm and tills its fields and two that is being made in improving farm machinery. You can get this information from a study of the advertising columns of the Farmers Mail and Breeze, from a careful study of machinery and from trips to the chinery catalogs and from trips to the good machinery shows, such as those at Wichita and Kansas City. Many of agriculture. It will of course be especially acute in the next year or two or three, during the great world war, but it also will be great for many years after it closes. More and more the dependent of the many than placed on machinery shows, such as those at Wichita and Kansas City. Many of the smaller shows and demonstrations are mighty valuable. You also can get help, as a rule, from the hardware man in your town, in that you can man in-your town, in that you can study his stock and much of the printed matter he receives.

A general view of the improvements in the machinery situation places you in a position so you can form a better judgment as to just what is needed in improving production under your conditions. And it is very helpful to have this information. There is a huge variation in the efficiency of ordinary grab hay forks, for example, which everyone who has used one of the old 'back breakers" can testify to his sor-This is true with practically all

The second important thing is to get

a better the of e actual results which farmers are setting with machine under our conditions. There is enough averable form mechanical knowledge in every county in Kansas, if it were all issemble to completely change our methods. This rich fund of experience has been neglected. Many county agent are doing considerable good is making it available. It will pay mighty well to find out what your neighbors are doing in using machinery more generally—Bill Jones, for example, may be a "nut" on some things of a mechanical nature, but if he has a lot better results in cultivating corn or kafir it will pay to find out how he does it.

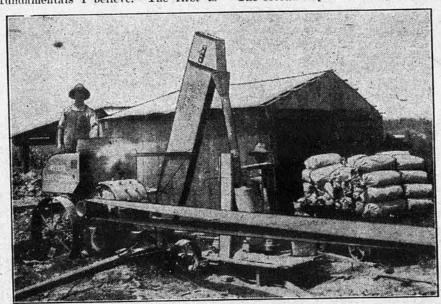
It will be very interesting to see how

It will be very interesting to see how some of the farm machinery move-ments of today "turn out." For ex-ample, take the increase in the number of small separators, purchased to do the threshing on just a few farms. Several hundred of these little outfits were purchased last year in the Mid-dle West, and it is probable that the number will be very large this year. They were featured in the exhibits at the Wichita show, and they got the interest of the crowds.

A Small Separator.

"A small threshing machine for most farmers is likely to become a rule just as fast as the farmers buy tractors." Mr. McVey said in his address. "Many of the tractor distributors are selling a small separator in connection with their tractors. They find them an aid in helping to sell the tractors for they multiply the uses of farm power with multiply the uses of farm power with every individual farmer. More small threshers would have been sold heretofore had the farmers had the power to run them. With the tractor this power is supplied. Unfavorable weather for threshing comes with most seasons, and when a farmer must delay threshing after the grain is ready, loss is almost sure to occur, unless one is at the front end of the big threshing man's schedule. And then unfortunately after the machine does come the man in charge sometimes operates with man in charge sometimes operates with the idea of getting the greatest amount of straw thru the machine in a day and with little regard for the grain that goes into the straw pile. When the farmer owns his own complete threshing outfit this is under his own control. He can thresh his grain any time and carefully."

There is a fine opportunity in the extension in the use of irrigation on a small scale by the use of the tractor and a centrifugal pump. The extra equipment needed for pumping water out of the streams in Eastern Kansas after one owns the tractor is not great. One-half of Japan's farming land is there is altho rainfall greater than in any part of our grain belt. A single acre there is made to produce, by two and three crops, \$160 worth of products a year. Of course, the farmers there fertilize, but that is not impossible with us. It seems vis-ionary to speak of irrigation for our great fields of the grain belt, yet no more so than cutting 25 acres a day or plowing 10 or 12 would have seemed to the farmer of the '40's. Small (Continued on Page 37)



A Portable Pulver Will Produce Ground Limestone for Acid Land Cheaply and Effectively, and Make Larger Crops Possible.

DEPARTMENT EDITORS Field Editor. F. B. Nichols Farm Doings. Harley Hatch Poultry. G. D. McClaskey Entered as second-class matter Feb. 16, 1966, at the postoffice at Topeka, Kansus, under act of Congress of March 3, 1879. ADVERTISING RATE

Changes in advertisements or orders to discontinue advertisements must reach us not later than Saturday morning, one week in advance of the date of publication. An ad cannot be stopped or changed after it is inserted in a page and the page has been electrotyped. New advertisements can be accepted any time Monday.

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T. A. MeNEAL, Editor. F. B. NICHOLS, Associate Editor.

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Passing Comment-By T. A. McNeal

Farmers are Loyal

There is really little or no occasion for saying that the farmers are loyal. It ought to be taken for granted that they are, but somehow the impression has gone out in some parts of the country that the farmers are slackers and indifferent concerning whether the war is prosecuted vigorously. I have addressed a good many meetings during last fall and this winter and I have taken pains to find out what the sentiment really is among the farmers. I have discovered that they are as enthusiastically loyal as the people of any other class in the United States.

I do find, bowever, that they feel that they have some cause for grievance. They are not objecting much to the government regulation of the price of wheat, but they do feel that the regulation should have gone clear along the line. The price of corn, flour and mill feeds should have been as effectually regulated as the price of wheat. The price of corn should have been kept down so it would be profitable to feed it to 15-cent hors.

it would be profitable to feed it to 15-cent hogs.

They cannot understand, and neither can I, why
there should be such an enormous difference between the price of hides and the price of leather
and shoes.

They have discovered that there is a joker in the regulation of the price of feed stuffs. There seems to be no relation between the price of wheat and the price of bran and shorts and the farmers naturally would like to know why. Furthermore, they have the best right in the world to know why.

But so far as being loval is concerned I have heard but one sentiment among the farmers and that is a determination to support the government hearfily.

Bad for Democracy

The utter fall-down of the leaders in Russia is tremendously unfortunate in more ways than one. Of course it was bad for the allies to have Russia quit right in the middle of the game and give Germany advantage and greatly prolong the war, but to my mind the most unfortunate thing about the Bolsheviki failure is the effect it will have on democracy. Here is a practical demonstration of radicalism which has paralyzed industry in Russia and left it a helpless prey to the German invader. One of the hopes the world has indulged in, myself among the rest, has been that the Russian revolution would cause discontent among the German masses and finally cause them to overthrow their autocratic government. But now the German troops are marching thru a country utterly disorganized by supposed demo-cratic rule. They find industries destroyed, the railroad service the worst in the world-bar none -the people starving amid plenty and a government as tyrannical and autocratic as it has the power and ability to be.

I very much fear that instead of stimulating the German soldier to a desire for democracy in place of autocracy he will say that if this is democratic rule he wants none of it and will go back more loyal to the kaiser and militarism than he ever was before.

All this plays into the hands of the German

It will give the German kaiser an excuse to do what he and his military advisers have wished to do from the very beginning—Germanize Russia. The high-handed tyrannical conduct of Lenine and Trotzky, leaders of the Bolsheviki, has been the werst blow to democracy that has been dealt since the war began. If Germany is permitted to get absolute control of Russia and hold it, she will have gained a good part of what she set out to accomplish. On the ruins of the overturned government of the czar she will build a German autocracy. Unfortunately the coming of German rule will not be unwelcome to the upper or middle classes in Russia. The people of those classes will prefer German order to Bolsheviki disorder and

I had hoped that it would be different. I had banked a good deal on the establishment of an advanced republic in Russia. So far the experiment has failed. Left to themselves or with the friendly aid of enlightened democratic governments like the United States, the Russians would finally have

worked out a real republic, but the Bolsheviki government has not sought any aid or advice from the United States. We are not in a position to help much even if the Russians were willing. Germany is on the ground. It seems as if it would get complete control before the allies can do anything to stop it.

There is a real danger that Germany will win thru Russia.

Exposed Germany's Purpose

Along with the great possibility of evil resulting from the Russian collapse and the German invasion, there is this much good to come. It has disclosed the purpose of the German government. If there was ever a doubt in the mind of anybody that the purpose of Germany has been conquest from the very beginning, there is or ought to be no doubt now,

If there still lingered in the mind of any citizen of this country a belief that the men controlling the German government—and there is a growing belief that the kaiser after all is not the real guiding spirit of German militarism, but the willing instrument of the system—were really honest in the statement that Germany has been fighting a defensive war, that opinion must be shattered now. Everybody understands now that Germany in-

Everybody understands now that Germany intends to keep whatever she has so far obtained, if she can. There is no longer any question of the purpose of the German government to completely dominate Russia and also France, Belgium and Italy, if it can. In only one way can it be dissuaded from that purpose and that is by a great defeat at the hands of the allies or by an uprising among the people of Germany strong enough to overthrow the government. There is not much hope for that unless the unrest spreads to the army. That there is unrest and wide-spread discontent in Germany there is little doubt, but unless that discontent spreads to the army it will not overthrow the government.

The complete subjection of Russia by Germany is serious. It means that within a few months Germany will begin to get food which the German people need badly, and the hope that hunger will compel Germany to make peace will have to be abandoned.

But in the end it will do Germany little good. The sinister purpose of the German military power has been so completely exposed that it seems to have stirred up an opposition to Germany where it was least expected. Morris Hilquit, who denounced the war and openly condemned this government, is now making patriotic speeches and offering his services to the government to help in the fight against German militarism. The labor organizations of England which were for a time decidedly lukewarm are now determinedly for the prosecution of the war to a successful end.

tion of the war to a successful end.

Bernhardi declared in his "Germany and the Next War" that it was world power or downfall for the German empire.

The world outside of the central powers understands that such a thing as permanent peace is impossible so long as the German military power is unconquered. That may make the fight longer than many of us have anticipated, altho I am of the opinion that when the German military power begins to break that it will crumble fast, but in any event, much as peace is to be desired, it is better to fight another year and overthrow the German government than to stop short of that even at the saving of a year of war.

That Cannon and Engine

L. C. Knudson of Waterville takes issue with my mathematics.

He says: "Your answer to the mathematical question in a recent issue is quite absurd in its final conclusion. Had it been limited, however, to the first statement, "The force which carried the ball from the gun on the engine was entirely independent of the force which moved the engine itself," it would have been sufficiently correct and explained the apparent puzzle itself. The problem belongs to the physical science of motion, of course, under which the elements and laws involved are explained fully. In this case it isn't a simple

matter of addition and subtraction of forces according to the direction in which the cannon is supposedly shot.

"Obviously the ball and cannon already possess the velocity of their base, a moving locomotive with a speed of 100 miles an hour. Fired straight ahead the projectile receives an additional impetus from the charge of powder of 100 miles of double the speed of the cannon and the carrying engine, thus out-traveling them at the rate of 2 to 1. Traveling in the opposite direction the force of the ball would exactly overcome the speed of the cannon on the engine and they would part at the rate of 100 miles an hour. In every thinkable instance or condition the discharge of the ball from the cannon would certainly occur as an independent action, adding new force and thus speed to that already possessed by it. The other problem about the cannon in the mortar is substantially the same but as interpreted in the answer fails of it. By adding the two explosive forces the speed of the ball is obtained as twice that of the cannon, self-evidently.

"In the first problem by assuming the speed of the cannon ball at the rate given the problem becomes practically absurd. The value of this kind of mental exercise lies in the inquiry it may lead to about physical laws in daily operation but mostly unknown and misunderstood."

Mr. Knudson may be right. There is, of course, only one way in which his theory can be actually proved and mine actually exploded and that is by getting an engine that will run 100 miles an hour and a cannon that will shoot at the remarkably deliberate rate, for a cannon, of 100 miles an hour, plant the cannon on the engine, get an engineer who is willing to devote his life for a few minutes to the demonstration of physical science and then turn the engine loose and fire the gun. It would be just like the government to refuse to let us have an engine for this scientific test and even if we can get the engine we are going to have a lot of trouble in getting that kind of a cannon. So there we are. It seems to me as if this absorbing problem is going to go unsolved, perhaps to worry the minds of generations yet unborn, along with those other vexing questions concerning the identity of the individual who pasted William Patterson of the mug and that other problem which as I now recall is like this: "Suppose that an irresistible force should encounter an immovable object; what would be the result?"

However, in this case I will frankly own that Mr. Knudson has the advantage. He is certain that he is right while I am not certain that I am right. I will therefore withdraw from this controversy until somebody actually supplies the cannon and the engine and the engineer to run it.

The School and the Farm

One evening recently I attended the dedication of the Bloom rural high school building. Possibly you never heard of the Bloom and really it has bloomed to a great extent as yet. The report of the state board of agriculture does not mention it as a separate organization. It is simply, so far as that report is concerned, a part of the township of Bloom down in the southern part of Ford county. The entire township has a population of 425 persons, and I am guessing that maybe 125 of the 425 live in the little village of Bloom.

Last year was a hard season out in that part of the state. The land is fine but there was almost no rain last year and crops of all kinds were a

It takes some considerable pluck to undertake the building of a rural high school under such conditions, but then pluck is a common characteristic of the Western Kansas people.

This is the first rural bigh school in Ford county. The district connected with the school takes some territory in Clark as well as Ford. The people of the rural high school district cheerfully voted \$15,000 bonds on themselves and then dug up some \$2,000 additional to build and equip the building which is modern, handsome and comfortable.

On the evening of the dedication the people of the district filled the high school auditorium despite the fact that it was bitterly cold and the

wind was blowing as it can blow out in Western

However, this is what interests me. The people out there are trying to correlate the school with the everyday life of the people. They took en-thusiastically to the suggestion that there should be an experimental farm run in connection with the rural high school and I think that will be the move. They are intelligent and progressive be but they say, and truthfully, that an exment made at the agricultural college at Mandoes not necessarily prove anything so far hat part of the state is concerned, on account difference in climatic conditions. They can vise, however, that an experimental farm in tion with the high school might be of treous advantage to the farmers out there. On farm could be tried out all sorts of agriculexperiments. Some of these would fail, but out there as a success. There are a few in regard to Western Kansas which are well established. One is that the methods raing which are successful in a wet country of work successfully in an arid, windy counanother fact is that the successful farmer in rn Kansas must be prepared to change his ds to suit the different seasons in that

mained up, the great problem of Western as is for the farmer to adapt himself to the ic and soil conditions of that part of the He must find out what crops show the resistance to drouth and winds. With an imental high school farm these tests can be without imposing any great risk on any one

scovered also that the people out there are enthusiastic over the idea of making the not only a social center, but also a school ople of all ages. Why not continue to go to after we are grown ups?

m going to watch that Bloom rural high with interest.

people out there have evidently made up minds to stay there and make the best of If they ever had the notion in their that there is a change going on in the e. they have gotten rid of it now. The of Western Kansas and Western Oklahoma astern Colorado has not changed. It will not e in all probability. There will be compara-wet years and extremely dry years just as always have been. On the whole the climate ntinue to be semi-arid and part of the time discover and develop crops which will grow

inder the most unfavorable drouth and wind ions is the business of the experimenter. which provide that the general government pay a third of the salary of a practical farm strator and instructor, provided the state

German Cruelty

ader at Marysville, signing himself J. V., Can it be proved that the Gérman soldiers women and children thru wanton cruelty? when and where? What relation is the to the late Queen Victoria of England? Has my had any war since 1870; if so, with what

German atrocities not only can be proved have been proved so overwhelmingly that individual who still doubts that these have been committed is one who is so that his case is nearly hopeless, or else German sympathizer who refuses to be con-

by any evidence: der to prove German atrocities it is not ssary to take the testimony of witnesses of Germany. The published defense of the government of the acts of its soldiers in and France is sufficiently damning withing any other testimony. In that published the German government acknowledges that omen and children were shot down by Gerdiers and justifies this by asserting that had been fired on by citizens.

let us draw a possible parallel. that Germany occupied the territory now ing Missouri, and that Kansas was an dent government called Belgium, while the now occupied by Colorado was also an dent government called France. Then let and France. Kansas or Belgium, lying the two, had no quarrel with either, but outrality was supposed to be protected by

government of Germany, wishing to attack e. asks the government of Kansas, or Belfor permission to march its troops thru sas. so it may strike Colorado, or France,

cannot consent to that because it would be violation of its treaty obligation. The government of Germany replies that it knows that but that his is a war necessity and that after the war is over it will recompense Kansas, or Belgium, for the wrong done.

this the government of Kansas replies that

it cannot consent to take money for a violation of a sacred obligation and that if Germany insists on invading its territory it will resist to the extent of its power. Suppose then that Germany, disregarding its own treaty obligations, would proceed to send its armies into Kansas territory and Kansas should muster what force it could to protect itself. Its army would be beaten back by the overwhelming force of the German army. The course of this German army would rather naturally take it thru the town of Marysville where J. V. lives.

A proclamation would be issued saying that if J. V. or any other citizen or person who happened to be within the limits of Marysville should fire a shot at the German troops or commit any other hostile act a certain part of the inhabitants, say one-third, would be shot and the town of Marys-ville destroyed. It is quite likely that some hot-headed resident of Marysville, burning with indignation at the wanton invasion of his country, would decide to try to kill at least one of the invaders, and acting on that impulse would fire a shot from some upper window. Then let us suppose that J. V. and his wife and children, along with one-third of the residents of Marysville who had nothing whatever to do with the firing of the shot, would be taken out and deliberately shot by the German soldiers. That would be a counterpart of what the German government not only acknowledges was done, but justifies as a military necessity. With that acknowledgment from the German government of the german gove man government does J. V. need any further proof?

But the testimony outside of this is utterly borrifying in its abundance and completeness. I have waded thru page after page of it until my brain fairly rected with horror. This proof consists of photographs taken, of letters captured with Ger-man prisoners and of diaries of German soldiers taken from the bodies of the dead Huns on the battlefield.

When the German government was confronted with this horrible proof it proceeded to deny a part and defend the rest. It refused to agree that a commission selected from neutral nations should be appointed to make an unprejudiced investiga-tion but instead made an investigation or an alleged investigation itself. Of course that investigation was made as partial to Germany as possible, but even with its own prejudiced witnesses it succeeded in proving most of the charges made its enemies. I now recall one bit of testimony in the German report. A German soldier was at-tempting to show that the stories of indiscriminate slaughter of women and children were untrue. He stated that in hunting thru a pile of dead Belgians who had been shot because some person in the town had fired on the German troops, he only found one dead child. He does, however, relate with apparent satisfaction that he found in the heap one living child and tells how he had that child cared for.

In answer to J. V.'s second question I supposed that every fairly well read person knew that William II is the grandson of the late Queen Victoria.

The third question of J. V.'s is the one which leads me to suspect that his heart is not right. Before the United States got into this war it was most common for German sympathizers to call attention to the fact that Germany had had no war since 1870, while nearly all the allied nations had been involved in one or more wars. It is true that Germany had had no war with any great nation since 1870, but it has done a great deal of fighting with half-savage people. In the conduct of its colonies it has been most ruthless and cruel.

However, what Germany has done or has not done in the 43 years between the close of the Franco-Prussian war and the beginning of this is not a matter of great importance. The important thing is what Germany has done in this war.

In this war it has made the Apache savage seem by comparison like a meek and gentle christian gentleman. It has descended below the lowest depths of savagery ever before recorded in history.

Will Blood Tell?

No doubt, Erastus, there is something in what you say about blood. Good stock counts in humans as well as among animals. You can't get purebreds from scrubs either among horses or men, but the fact remains that education and environment have a great deal to do with the character and conduct of people. I know a neighborhood where for 20 years there has not been a crime committed by any member of the community. There has been no need for a policeman and there have been no dranks or misdemeanors.

I think the people of that community have maybe gotten the notion in their heads that they belong to a rather superior order of beings. Down in the bottoms somebody is making trouble most of the time and the policemen are kept busy.

Down in that neighborhood there is not a really comfortable home. The streets are smoky and dirty and the yards are full of rubbish and junk. Now it is my opinion that if the surroundings of that neighborhood were as sanitary and inviting as they are in the first neighborhood mentioned there would be an immediate falling off in crime and disorder. It is my opinion that if the people who live in the orderly neighborhood were put among surroundings like those in the bottoms and they and their descendants kept there for a few

generations that the said descendants would be

raising hades and keeping the police busy.

It is said that in parts of Australia it is very impolite and bad form to ask anyone even in the best society where his ancestors came from. You see a good while ago England used that part of Australia as a convict colony. Criminals who were bothersome and maybe considered especially dangerous were deported to Australia and turned loose there because it was supposed that they never could get back to England to do any more harm. Well, these convicts were given a chance in that wild country to work out their own salvation and strange as it may seem, when the opportunity was given they began to prosper and became industrious, law-abiding citizens.

We are more the creatures of circumstance than we generally suppose. Also I might say, Erastus, that what is called success is just as likely to be the result of fool luck as of good judgment.

Wasfe of Energy

I am frequently asked if I think we are going to have government ownership of railroads in the very

I do not know. My opinion is that we will at least never go back to the old system with its waste of time and energy

and senseless discriminations.

Not long ago my attention was called to a case where a car of flour was to be shipped from a point in Kansas to a point in Texas. While this Kansas point was many miles nearer the Texas point than Kansas City, the rate from Kansas City to the Texas point was less than from the Kansas point. Therefore the car was first hauled to Kansas City and then back thru the town from which it originally started on to the Texas point. The coal necessary to had the car from the Kansas point to Kansas City and back again to the Kansas point was all wasted while the country generally was clamoring for coal. The wear and tear of the car and the track and the ways of the train grow also were wasted and this wages of the train crew also were wasted, and this at a time when everybody is being urged to conserve wherever possible.

If a private individual would act with no more sense than the railroad company he would be called before the nearest probate judge and a jury would be summoned to inquire into his sanity. What would be thought, for example, of a farmer

who had a load of grain to haul to town, if instead of loading the grain in his wagon and starting by the nearest and best road to town, he would first drive a mile or two in the other direction and then drive back over the same road, past his own house on the way to town?

You know what would happen. The neighbors would say: "The war or something has unbalanced that man's mind. He may become dangerous. We had better have him looked after."

But in the case of the railroads tremendous salaries are paid men for managing such senseless systems.

Vast armies of clerks toil day after day making

endless columns of figures on rate sheets. Shipping clerks puzzle over hundreds of differential

which are based on neither reason nor equity. While produce is rotting in certain localities for lack of cars to load it into, and people in other localities are clamoring for the food and other necessities they cannot get, the motive power of every rail-road in the country is being wasted in hauling empty

Government ownership may not be a complete success, but it can hardly be worse than private owner-ship has proved to be. Politics will in all likelihood interfere with the efficiency of government ownership or government management, but at that it cannot be worse than the politics connected with private management, while some at least of the discriminations and absurdities and needless expenses of the present management will be avoided.

Public ownership of transportation is certain to come, but possibly it may not be immediate.

Let Politicians Beware

Party politics and partisan methods cannot win a war, they never have and never will. The President's announced purpose of calling both Democratic and Republican leaders of Congress into a series of war conferences is wise and statesman-like. The Republican brethren have proved them-selves worthy of this confidence by their support of the President when even his own party has failed him.

A President when elected becomes the President of the United States, not of the Democratic party nor of the Republican party. After he takes the oath the people and the Nation have the first and only claim upon him. He is the people's President as this is the people's war. In the hearts of the people there is only one political party in the United States today and it is devoted heart and soul to conducting the war powerfully and forcefully and ending it in the shortest possible time and with the least bloodshed. Let any and

every politician be-ware of getting in the way of this party Q policy.

Dead Pigs do Not Win Wars or Pay Bills

More Care Will Reduce the Losses Greatly and Thus Increase the Production of Some Much Needed Pork

5,286 PIGS farrowed on 75 farms last spring only 3,610 lived to become hogs. This represented a loss of 31.71 per cent.

Out of every hundred pigs 10 were born dead, 18 died between farrowing and weaning, and three died after weaning. This means, on the average, that of every litter of 10 pigs farrowed three died, and only seven were raised.

These were average pigs on average farms, and altho the figures were made in Minnesota there is reason to believe that a similar set of figures made in Kansas very likely would tell the same story. Too many pigs are lost; time and time again dead pigs spell the difference between profit and loss in the hog business. These farmers poured their money into sows, providing feed and housing and care, but because of poor animals, improper feeding, improper housing, or improper care, they suffered a loss of 10 per cent at farrowing.

And then by the same processes they suffered a second loss, more than double the first, in the death of pigs after farrowing. No doubt a certain percentage of loss will occur under the best of circumstances, but a loss so great as this is a loss amounting to a In times of stress like these it is doubly a crime—a crime against the farmer himself, and a crime against the United States and her allies.

Let's Save the Pigs.

The government of the United States has asked the farmers of Kansas to increase pork production this year by 25 per cent. Has it ever occurred to you that a part, yes, a large part, of this increase might be brought about by cutting down preventable losses and wastes? Assume that the figures mentioned apply to the hog industry of Kansas, and that there is annually a loss of 31.71 per cent of pigs farrowed. If that loss were reduced by a little more than three-fourths we would have attained an increase in production of the required 25 per cent. Of course we are not likely to succeed in reducing our losses in any such wholesale manner as this, but we can reduce them, yery materially. A pig saved, that otherwise would die, is a pig gained.

The time to begin cutting down pig losses is before breeding—in the selection and conditioning of dam and sire. We can't, of course, correct any mistakes made in breeding for this year's spring pigs, but we can see to it that the same mistakes are not made in breeding for fall litters, and for all litters that follow. This is no place to go into the subject of what makes up a good sow or a good boar; we shall assume that most hog-raisers have pretty definite ideas about that anyway. Rather, we wish to emphasize the point that a scrub sow is a mighty poor pig machine to be pouring skyhigh feed into, and to be lavishing precious labor and housing upon. If a man has any of that kind of stock around the sooner he gets rid of it and buys something worth while the better it is going to be for him and for everybody concerned. We do not mean by this that he should necessarily buy extra-good purebred stuff, altho that is a fine thing to do if you can afford it, but that he should at least buy grade stock of quality and merit.

Care in Breeding.

Having animals of the right type and quality we should see that they are in proper breeding condition. There is no profit in breeding either over-fat or run-down sows, and no profit in mating with out-of-condition boars. There need be no worry about over-fat sows this year; these are scarce articles. The run-down sow, however, is another matter. High prices of feedstuffs have fostered a strong tendency to underfeed, and this is a tendency we have got to guard against if we desire maximum litters of strong, healthy pigs. With alfalfa or clover and a very little grain run-down sows may readily be brought into proper breeding condition. spent this way will pay real dividends.

By H. W. Doyle

Special Assistant Secretary Kansas State Board of Agriculture



A Well Balanced Ration and Good Care With Properly Bred Sows Will Result in Producing Pigs Which Have Real Quality.

with the pregnancy of the sow. They must be fed in the four months before wants, plus enough to supply the wants ishness, due to excessive use of fattenof her unborn young. The same holds ing feeds, and to lack of exercise,
true in regard to the kind: Give the cause more pigs to be born dead than
kinds of feed you should give to an we ever realize.

Nowhere are hog raisers more fortuadapted to the most wonderful preg-nant-sow feed known—alfalfa. Think of it! A permanent, continuous, longseasoned, highly protein pasture plant! A plant so rich and nutritious that its hav is equivalent to that concentrated mill product, bran! Think of the very expensive protein concentrates it takes the place of!

A pregnant sow needs exercise; without it she cannot retain health and vigor and transmit that health and vigor to her pigs. From the time al-falfa is 10 inches high in the spring, clear up until fall, she can run on alfalfa/pasture and secure that muchneeded exercise. In the winter season she can run on winter wheat or rye pasture, with alfalfa in a nearby rack, and a little corn, kafir, or ground oats, on the side. Only when the snow and ice prevent pasturing must her owner take extra precautions for her exercise. Then he must put her feed and water at a distance from the sleeping quarters to make sure that she moves

The condition of the bowels is an extremely important matter. If the sow is seldom likely to resent his help. Every little piggy, as he comes into from constipation. If she hasn't alfalfa she must be fed bran, and the grain he can't get to it himself he should be ration should be given in the form of aided. In comfortable weather he usu-

The feeding of a litter of pigs begins slop. As the gestation period draws to a close oilmeal should be introduced into the ration, both for its protein and farrowing just as truly as they must for its laxative effect on the bowels. be fed after they are born. And, like Fattening feeds, particularly corn, all growing pigs, the larger they get must be fed in very limited quantities, the more feed they require. Therefore, when you go out to feed a sow in pig, small, but also because of its tendency give her enough to supply her own to constipate. Constipation and fever to constipate and the very size of few tendency.

open sow as well as the kinds of feed you would give to growing pigs. The brood sow needs special attention and pregnant sow needs mostly protein care. She/is best confined, her exerfeeds—alfalfa, clover, milk, shorts, cise reduced, and to some extent her tankage, oilmeal—in sufficient quantifeed. Some hog men place her in an ties to develop pigs with kinks in their individual stall in a central hog house, with an adjoining outside pen of limits of the control of the with an adjoining outside pen of limited area; others place her in an indinately situated, as regards the feeding vidual farrowing house, surrounded of the pregnant sow, than in Kansas. with a small pasture lot. Particular The Sunflower state is naturally attention should be given the bowels at this time. Loosening feeds in the form of slop are highly desirable. In the 24 hours preceding farrowing it is best that she get nothing but lukewarm water, or a very thin, warm slop of ground oats, shorts, or linseed meal.

The place of farrowing should not be exposed to drafts, altho proper ven-tilation is necessary. The walls should be surrounded by a two-by-six or a two-by-eight fastened 6 or 8 inches above the floor, to prevent the sow from crushing her pigs. The pen should be clean and dry, and there should be a moderate amount of bed-ding. When the milk begins to show in distended teats and the sow begins to try to make a bed, farrowing is soon to come. If the sow is in good condition and seems to be quiet she should not be disturbed. The wise hog man, however, is ever in the offing, and frequently takes a look-in to see how things are coming along. If assistance is necessary it should be given, in a quiet, patient, sympathetic manner. If the sow has previously been taught to look on the attendant as her friend she

ally will get along by himself, but if it is cold care must be taken that he does not become chilled. Heated bricks in a covered barrel or a box are a help, and an oil heater nearby may serve the same purpose. Sometimes, in bitter weather, he may need to be carried to the house to bask in the heat of a warm stove. Under such circumstances it is well to wipe him dry. Oftentines pigs that are born apparently dead may with a little attention be started to breathing. First see that the mucus or slime is not obstructing the mouth and nose; wipe it off. Then hit him a few light slaps on the side. After he has started breathing and has had a little pull at the teat, he may be given warmth.

Good hog men say that if a sow has been fed properly she will not try to eat her pigs, but this is no reason why she should be tempted to carnivorous habits by allowing her to eat the after-birth. That is an article which should be removed and buried or burned at once. The little sharp teeth of the pigs are best broken or clipped off, so that the sow's udder may not become lacerated and sore.

After Farrowing.

For 24 hours after farrowing the sow will need nothing but lukewarm water. Then she may have a thin, warm slop, which is increased gradually in rich ness from feed to feed. In a week she should be back on the ration she was getting during late pregnancy. Gradually the ration must be increased as also may be the proportion of fattening feeds. As the little pigs grow, becoming larger and stronger, they require more and more feed, and the wise feeder will see that the milk flow of the sow is adequate by giving the necessary feed. This is the time when the feeder gets the fullest value for his money, for at no other time will the pigs make greater gains on the same amount of feed.

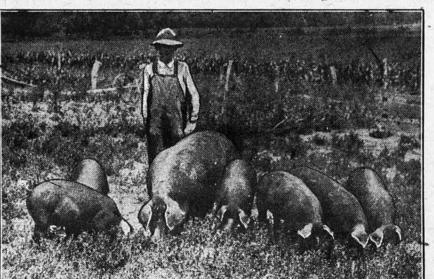
But suppose the pork producer does give the best of housing, the best of feed and feeding, and the best of attention at farrowing time; even then he may suffer enormous losses. Disease-cholera, lice, worms, pneumonia, tuberculosis, and a score of other pos-sible troubles—may decimate the herd Some of these troubles may not kill the animals; they may only prevent profitable gains. Others may wipe out the whole herd. What gains the hog raiser if his sows farrow the best pigs in the whole real-day. in the whole world and he then allows disease and pestilence to ravish them unchecked?

Away With the Diseases.

Sanitation, serum, and approved correctives must be used to reduce pig losses. No investment of time and money will bring greater returns than the prompt removal of filthy litter and offal, and the liberal application of disinfectants. The effective control and prevention of hog cholera, by the use of pure, potent serum properly administered, has been forcibly demoli-strated in Marshall and other adjoining counties. No doubt can now remain as to its reliability. Charcoal ashes, lime, salt, sulfur and copperas, as a worm preventive and tonic, have been found very useful. Care in not permitting too many hogs to pile up become heated, and get pneumonia. and in keeping little pigs out of a cold raits, are matters of plain common sense.

All this is but suggestive—remindful of things that

of things that every progressive heg man already knows. The simple fact of the matter is that if every heg raiser would do the best he knows the number of door the number of do number of dead pigs a year would suffer an amazing slump. The point we desire to ram home is that the more valuable pigs because it is that the more valuable pigs because it is the them. valuable pigs become—the higher the price of pork and the greater the need of humanity of humanity—the greater should be the effort of the hog raiser to sare every not that he every pig that he can. Carelesness b pure wanton waste—un-American and unprofitable. Why not eliminate it this year in Kansas? Let's put our best efforts into the producing of the pork crop of 1918 and increase it greatly. crop of 1918 and increase it greatly



Pasture Crops Must be Used Extensively for Hogs if the Best Profit is to be Obtained; Alfalfa is Especially Valuable.

Let's Use the Winds for Our Farm Power

A Good Mill Can be Built Cheaply in Kansas and it is Efficient When Managed Properly

By P. E. Fuller

NDMILLS have been popular and efficient in many Kansas communities. This the damage resulting are will more than offset the additional cost for the added The tripod, or three-legged lighter and allows trussing tier manner, and even if the ight is less than that of the tower; but if the tripod cheap or poorly constructed, hazardous than the four-post similar construction.

foundation and firmly and bedded in place.

Wooden Towers.

lon towers are good where clear on, and the entire anchor be well tarred or charred to mpid decay

probably will be true to an ably, even if they are placed at such ing of a bolt may ultimately cause the g extent in the future. In distances apart as 500 feet.

the shipment and with care no trouble will be experienced in the erecting.

After the mill is entirely assembled it should be inspected carefully to ascerlighter and allows trussing tain whether all the parts are placed proportionately heavier, the be blocked up as high as possible and the is less than that of the a 2 by 12 plank should be bolted upon the legs against the ground. Four by 4 sheer legs should be set astraddle of the tower about one-third up from the base, and over the crotch in these legs attention should be given to a stout cable or rope should be made nors and their footings. These fast to the mill head, the free end behave plates of large area set ing fastened to a set of tackle blocks. fast to the mill head, the free end be-

Four-sheave and three-sheave blocks for 11/4-inch rope are best, one end of the blocks being made fast to the anchor. The free end of the line can is available at a reasonable be fastened to a doubletree and a team unless they are built substan- of horses can be used to raise the mill. nd kept painted their life is

Three strong guy lines, one in the rear
and one on either side, should be made
fast to the head to steady the mill onld be bolted firmly to "dead day for raising. It is well to choose a day for raising the mill when little wind is blowing.

It is unfortunate that the windmill has attained a reputation of not needeight of the tower has much ing attention except at times of breakin the success of a mill. It down, and conditions are aggravated bever be located where the by the attempts of makers to include

ular make of mill and the small so serious.
amount of attention needed, for in doing so they encourage a still greater neglect and indifference on the part of owners.

It is to be hoped that as the demand for irrigation plants using wind power becomes recognized, manufacturers willstrive to build mills of heavy construction scientifically and mechanically built with all working parts machined properly and provided with liberal and positive oiling facilities, and will make vigorous efforts to impress upon the users the similarity between the windmill and any other type of engine with respect to the necessity for thoro oiling and systematic inspection. It is further to be hoped that be of brass, sames, and polished on the purchaser will not be guided in the inner walls.

his choice by the cheapness of the (3) The piston should have ample product, but by excellence, and it is space for the best leather packing and the "follower" should have ample space for the best leather packing and the "follower" should be arranged so wagon, is in the long run the most expensive.

(3) The piston should have ample space for the best leather packing and the "follower" should be arranged so wagon, is in the long run the most expensive.

(4) The piston red

The speed at which pumps of the casing, and in either case sho windmill type give the best results least 1¼ inches in diameter. consistent with long life is at a maxi— (5) The guides for the consistent with life is at a by the attempts of makers to include obstructed in its free access mill, and it should be high above the ground to realize the of the wind. Ordinarily 40 devices are commendable in machines of give excellent results, the in line with respect to each other with respect to each other be given consideration, for if line with the prevailing wind line with long life-is at a maximum of 30 strokes a miaute, but better results long life-is at a maximum of 30 strokes a miaute, but better obstance if the length of stroke is increased beyond that all positions.

(6) The ports or water openings the results long in places with long life-is at a maximum of 30 strokes a miaute, but better results long in places with long life-is at a maximum of 30 strokes a miaute, but better should be of large diameter.

(6) The ports or water openings the results long in places with long life-is at a maximum of 30 strokes a miaute, but better should be of large diameter.

(6) The ports or water opening strokes, but least 1½ increased should be perfectly parallel to the

started less frequently than otherwise, resulting in less wear and thrust in the pump and mill parts. In this respect a back-geared mill with greater uin of the entire engine.

Probably from no machine is so longer stroke would be preferable to a mill it is well to select a when mills are shipped from the Probably from no machine is so longer stroke would be preferable to high is amply strong to with factory they usually are crated and much expected for so little attention the direct short-stroke type. Such an incline will give so much in return as from a windmill, and probably no arrangement, however, requires that the gears be designed with ample face for so smell on investment and so or tooth area and liberal strength in machine will give so much in return the gears be designed with ample face for so small an investment and so or tooth area and liberal strength in great an amount of energy from nather parts. When the pump operates ture's store without cost to man. It is a mistake for manufacturers to additional and large pipe to the chieffing to short and large pipe to the control of the chieffing to short strenges is not vertise the simplicity of their partic- the objection to short strokes is not

Efficient Pumps.

In choosing a pump for a particular mill the matter of size can be left to the mill manufacturer, but even in such a case an understanding of the principles involved is desirable. A few points in the construction of a pump are of great moment to its successful operation and are given herewith.

(1) It should be insisted upon that the pump have a large stuffing box or gland—if it be of the pressure type—where the piston rod leaves the pump.

This gland should be packed with a good grade of graphite packing.

(2) The cylinder or its lining should

casing, and in either case should be at

way With all the Kansas Garden Pests

Why Not Get a Larger Part of the Food Supply of the Family This Year from the Vegetables?

importance. ducts will be abnormally high, sents a sucking is an actual shortage. Every this natural dishould produce as much of the trolling insects. ome as possible.

the food this year.

most important thing, how-to fight the insects. These to fight the insects. se a huge loss in the gardens in Kansas. Why not conin this season?

insects in Kansas may be roughly into two great classes lessis of their mouth parts and of feeding: first, the chewing type which actually eats the leaves and fruits of plants;

MUCH larger supply of food second, the sucking type which with a his year from the Kansas juices. The army worm is a good ex- not be sprayed with miscible oils like arm gardens. This is of the ample of a biting and chewing insect, Prices for all while the plant louse or aphid repre-thonormally high, sents a sucking type. Advantage of this natural division is taken in con-

results will not be possects that bite and chew by dusting or to 7 per cent, solution of kerosene a definite program is despraying arsenical poisons over the insemulsion without injuring the plants. In many cases the garden fested plants. Stomach poisons like the larger than usual. In the average person undering general way the things reing general way the general way

because there was not or liquid.

ber put on the soil. It will It is practically impossible to poison it the garden yields its the sucking insects because by means of their long sucking beaks they are bings are necessary. In most able to draw out the plant julees from igntion will be helpful. Well beneath the surface without taking manure will aid. An effort any of the arsenical poisons. For the made to control diseases. Per- sucking type of insects, therefore, a sucking type of insects, therefore, a will bring a sucking type of insects, therefore, a will bring a sucking type of insects, therefore, a will bring a sucking type of insects, will thus be supplied with the incontrol of the solution kills the insects by comformation required in the control of the solution kills the insects by comformation required in the control of the set of garden may be the source of disease infection or insect infestation for several near-by gardens. Keep penetrating their living tissues. Such largest returns from your garden, Besprays as kerosene emulsion, strong diseases known to occur in your disan object lesson for careless neighbors and will have a tendency to help clean the such as the su ing to wet every insect.

han usual can be obtained long sucking beak draws out the plant injured easily by strong washes should an insurance against loss. kerosene emulsion. plants, strong soap suds and tobacco solutions are much less likely to burn the plants. If care is used, sucking olling insects.

It usually is possible to kill all in- and radishes may be killed with a 5

success with vegetables, but seek, and feed upon, the parts of the not had good gardens on plant not covered by the poison dust because there was not or liquid.

It is practically impossible to poison the parts of Agriculture Which was issued recently by the United States Departing the garden yields its the sucking insects because by many of Agriculture Western T2-page Farmers Bulletin, No. 856, Control of Diseases and Insect Enemies of the Home Garden, which was issued recently by the United States Departing the garden yields its the sucking insects because by many of Agriculture Western T2-page Farmers Bulletin, No. 856, Control of Diseases and Insect Enemies of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued recently by the United States Departing the page of the Home Garden, which was issued the page of the Home Garden and t ment of Agriculture, Washington, D. C. Every reader of the Farmers Mail and Breeze who expects to plant a garden this year should send for it. The bul-letin is sent free; a postcard request will bring it to you promptly. You will thus be supplied with the in-

applying them. Remember that the year.

Melons and other plants which are timely application of a remedy acts as

Watch constantly for the first appearance of a disease or insect. spect the garden at least every other day. Determine what is causing injury and apply the proper treatment promptly. Use the combination treatments in case a complication of troubles is present. Repeat treatments as often as necessary, keeping in mind the influence of weather conditions as well as the life history of the insect or fungus causing the disease.

Use insecticides and fungicides in the proper dilution to accomplish the object without injuring the plants. Standard remedies are best. Test Test others experimentally before using them on a large scale.

Use the best sprayers. A thoro application is necessary for the best results. Adjust the sprayer so that all parts of the plant that are exposed to the air will be covered.

be used. Only those insects that are trict on the crops you are growing, and will have a tendency to help clean actually hit by the spray will be killed. Equip yourself in advance with all up the neighborhood. This will make hence the importance of thoro spray-necessary remedies and the means of control easier and cheaper another

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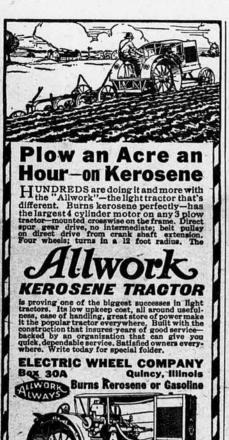
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Galls and sore shoulders reduce the efficiency of your horse—sap his strength—down his spirit. Cure him without the use of medicine—while he does his heaviest work, with the Lankford Collar.

We guarantee a cure when properly fitted. Be careful and get the genuine Lankford Collar—made of best white sail duck, trimmed in extra heavy leather and stuffed with clean and downy curled cotton, medicated, which will not pack or harden. Also comes in special brown waterproof duck.

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Powers Mfg. Co.

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Kansas University of Commerce)
Salina, - Kansas.

A Record With Hens

The Farm Poultry Outlook in Kansas for 1918 is Excellent

By George Cugley

feed was selling at \$2 a hundred, expected to get 60 cents a dozen for eggs when scratching feed advanced to \$4 a hundred, when, as a matter of fact, it is not at all necessary for eggs to sell at 60 cents a dozen with feed at \$4 a hundred in order to show a substantial profit.

It seems to be the custom with many poultry raisers to make their compoultry raisers to make their comvatue of the eggs would leave \$1.00 a parisons between 100 pounds of feed hen a year over feed cost.

"The same number of dozens of eggs in keeping with the established practices that are followed by the modern commercial poultry plants.

"The same number of dozens of eggs for 1917 at the increase of 30.2 per tices that are followed by the modern cont in price would be worth \$3.90.

The 75 pounds of feed for 1917 at \$3.11

Accurate Records.

The percentage of poultry raisers who keep an accurate record of their transactions is exceedingly small, and this is indeed unfortunate, because without an accurate accounting system in any business, there is always a likelihood of jumping at conclusions that are not founded on facts. During the last few months I have heard and read statements by a great many poul-trymen who had been honestly con-vinced that they had been operating their plants at a loss, when, as a mat-ter of fact, they had no way of known ter of fact, they had no way of knowing for a certainty where their profits were really coming from. Simply because the price received for eggs and fowl had not advanced cent for cent with the cost of feed, they jumped at the conclusion that they were losing

against the value of the eggs she pro-

some facts that were truly amazing to two years in order to determine the some of the breeders in attendance, actual difference in the gross profits. Many of these breeders had formed the opinion that they had operated their plants at a loss, but when they began to figure the thing out on the proper basis, they were agreeably surbeen making a very satisfactory profit and did not know it. After I returned home from the meeting I wrote to Professor Dann, asking him for some of the figures he gave in his talk at but it certainly would not have been the meeting. His letter to me is as fair to have permitted the cold-storage

"I have just found an opportunity to answer your letter, and will give you the figures which you heard me mention at Columbus and Cleveland.

cial flock will average 10 dozen eggs the benefit of the men wno were property as the benefit of the men wno were property as a hen, and basing the value of these the benefit of the men wno were property of the men wno requires approximately 75 pounds of grain and mash to feed this hen for one year. This would cost, at \$1.87 a hundredweight, \$1.40 a hen a year. Subtracting the feed cost from the to start new breeders in the business value of the eggs would leave \$1.60 a

a hundredweight would cost \$2.32. This would leave a balance over feed cost for 1917 of \$1.58. This, you will note, is but 2 cents below the return above feed cost for the average of 1915

"The whole point in question is that season in accordance with the existing we should consider the proposition conditions, and this situation is cerfrom the standpoint of cost a unit of tainly true of the poultry industry. production, and the unit of production is the hen-year. The price of 100 pounds of feed may be the unit of purchase, but it is not the unit of cost production. Likewise, the price of dozen of eggs may be the unit of sales, but it is not the unit of income. Briefly considered, when feed in-creases 100 per cent in cost a hundred pounds, it is offset by an increase of approximately 40 per cent in the price of eggs a dozen."

To Determine the Profits.

There appears to be but one way to

A little figuring on your part will
figure the profits or losses in the poultry business, and that is to figure the plan set forth in Professor Dann's
cost of maintaining a hen for a year letter is the only practicable basis on which poultry profits can be figured, duces. That erroneous idea of com- and if the average poultry raiser were paring 100 pounds of feed with 1 dozen reaping a gross profit of \$1.58 a hen, eggs is so misleading that it is not over and above the cost of feeding durworthy of consideration, and the read- ing 1917, there certainly was no cause ers of the Farmers Mail and Breeze for complaint from the standpoint of will be doing their poultry friends a profit. It is not at all unlikely that favor by pointing out the impossibility the cost of feed as applied to the of accurately figuring profits on that Cornell ration may be somewhat less than the cost of feed to many indi-A short time ago I attended a meet-vidual breeders, but in any event, it ing of the Ohio Poultry Breeders' as-will only be necessary for such breeding of the Ohio Poultry Breeders' as- will only be necessary for such breed-sociation, where Prof. A. B. Dann, of ers to make a comparison between the the Ohio State University, presented average cost of their feeds during any

It also should be noted that had it not been for the panic which struck the poultry breeders during the early part of 1917, the market prices for eggs and poultry would have been maprised to find that they had actually terially higher than they were. Many poultry raisers have been complaining because they were compelled to sell their products at prices that were not in keeping with the advances in food, fair to have permitted the cold-storage men to have charged an exorbitant profit on the poultry and eggs they had in storage which had been purchased at the prices that were in effect during the early months of 1917. Average cost of Cornell ration The cold-storage houses were called on both grain and mash—1915 The cold-storage houses were called on and 1916\$1.80 a cwt. to supply about 80 per cent of all the The cold-storage houses were called on

shows every promise of being the mos profitable year for poultry keepen that we have seen for many years, and with this evidence at our command every encouragement should be offered and encourage those already in the business to enlarge their operations The tremendous cold-storage stora that were on hand during 1917 have been almost entirely exhausted, so that from now on the values of both poul try and eggs will be based on the present cost of production.

Satisfactory Returns.

In every line of business we find that values fluctuate from season to tainly true of the poultry industry.

The logical time to start the fiscal

year for the poultry industry is January, and if the January prices for eggs and poultry can be used as a basis, we are going to see an also lutely satisfactory scale of price maintained thruout the current year. Aside from any other argument that might be advanced, it must be admitted that hatching eggs and baby chicks must form the basis of all poultry values, and if we take the prevailing prices on these two items as a criterion, even the most pessimistic person can see the signs of encourage

Now suppose that we assume that the average price of strictly fresh eggs during 1918 will be 48 cents a dozen, and that the average cost of poultiffeed will be \$4 a hundred. It is a well-known fact that 75 pounds of food will feed a hen for a year and that the average hen produces 10 dozen eggs in a year. On this basis it would cost \$3 to feed a hen for a year with food at \$4 a hundred, and the value of 10 dozen eggs at 48 cents would be \$4.80, which would leave a profit of \$1.80 a hen on the most conservative

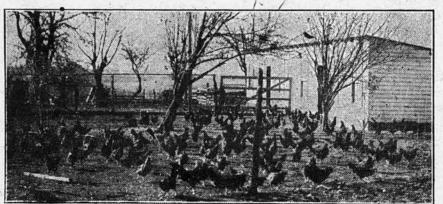
Eggs for hatching that could be purchased in normal times at \$5 or 86 a hundred are selling at \$8 to 810 a hundred, while baby chicks that sold in normal times at \$12 to \$15 a hundred are selling anywhere from \$18 to \$25 a hundred, and it naturally follows that the market prices of both poultry and eggs are going to be in keeping with the market prices of hatching eggs and baby chicks.

Prices of Feeds.

For some months past we have heard considerable complaint because the Food Administration has not compelled a reduction in the prices of poultry feeds, and while we have been ellcouraged to believe that there was go ing to be some drop in the prices of poultry feeds, we think it is high fine for us to realize that any reduction that might come as a result of cheaper suming that corn will be sold thruout the year at \$1.28 f. o. b. Chicago it still would be necessary for the retail dealers in year dealers in poultry feeds to sell scratch food at about \$4 a hundred. With wheat at \$20 wheat at \$2 a bushel on the farm and corn at \$1.28 a bushel f. o. b. Chicago it is not hard to understand why scratching food must sell at \$4 a hundred—nearly two bushels—when we add the cost of transportation, sacks, labor and a reasonable weekly for the labor and a reasonable profit for the people who handle this grain between the producer and the consumer.

Instead of anticipating a reduction in the cost of feeds, it would be better business to assume that these prices are going to stay about where the

(Continued on Page 38.)



There Is an Excellent Outlook for Profits from the Farm Flocks in Kansas; the Demand for Poultry Products Will be Large.

What the Bees Do

Why Not Harvest More of Your Good Farm Honey Crop?

By J. Troop

and, of course, she is the mother of all the other bees in the colony. Her duty is simply to lay eggs to keep up the supply of bees in the hive. Cook reports having seen her lay 3,000 eggs a day. These eggs are placed on one end in the hottom of the breed action. in the bottom of the brood cells, and whether they are to hatch into drones or workers depends sofely upon the wishes of the queen. If conditions of the weather are such as to effect the nectar flow so the workers are off duty for a time sho will almost invariable.

tirely within her control. On the other hand, when everything in the hive is running under normal conditions, with an abundant nectar flow and plenty of room, she lays fertile eggs in worker cells, which hatch into undeveloped females or workers; the reproductive organs are undeveloped.

The time required to produce a queen, a worker, and drone from the egg is 16, 21, and 24 days respectively. The function of the queen is solely to lay eggs. The function of the drone is to impregnate the queen, while the function of the workers is to do all of the manual labor, both inside and outside the hive, such as gathering the nectar and pollen, manufacturing them into bee bread for the young bees, placing it where the young bees can get it without much effort; secreting the wax and building the comb, and sealing up the cells when they have been with honey and this has sufficiently ripened.

Cells which are built by the workers are not all of the same size; those which are to contain drone bees and the honey cells are about 1/4 inch in diameter, while those which contain the workers are only about 1-5 inch in diameter. The relative amounts of drone and worker cells can be controlled to a certain extent by the beekeeper, by the use of artificial comb foundation as a starter. This consists of thin sheets of pure beeswax which have been run thru a stamping machine, similar to a clothes wringer, which makes an impression on both sides of the sheet of wax of the exact size and shape of the bases of the cells. On this foundation the bees draw out adage states it thus: and build up the cells in both directions. If they wish drone cells they simply enlarge the cells to the required diameter.

Queen Cells.

pendently of the others, and only when hey are needed to produce new queens. cells, resembling small peanuts in size profitable. and shape, and usually are placed on For the in an opening in the

When settled warm weather arrives, and the first spring blossoms appear, work begins in earnest and from that time on until cold weather arrives in the fall all is hurry and bustle both outside and inside the hive.

As soon as the early workers begin to appear the colony begins to increase rapidly until after a time the queen, apparently seeing that the house will soon be overcrowded, begins laying drone eggs in drone cells, which the workers have previously constructed. Queen cells are started, often three or four, sometimes 10 or 12, and soon four, sometimes 10 or 12, and soon after this, some fine day along towards noon, after considerable commotion In dividing, two or three brood super may be lifted off and replaced around the hive and after having filled frames together with the-bees which by another filled with empty sections.

sary to the well-being and success of erable time, probably until the bees are satisfied that the queen is with them, because it would be fatal for course, she is the mother of all them to go off without her. Then, unless the beekeeper has seen them and taken them in they will go to the woods and find a new home in a hollow tree. This is a time when the beekeeper should be constantly on the watch in order to prevent the loss of swarms.

The old colony has been greatly depleted in numbers, but young bees are constantly emerging and a new queen meetar flow so the workers are off duty for a time, she will almost invariably conditions continue favorable, in 10 day drone eggs.

About the Eggs.

This is accomplished by simply with-This is accomplished by simply with-holding the male, or fertilizing fluid, and allowing the eggs to pass out un-impregnated. This operation is en-impregnated. This operation is enwise the young queens will be allowed to develop with the expectation that they will be needed.

A queen mates on the wing, and only once during her lifetime, which may be four or five years.— Of course, she receives enough male fluid to last her during her lifetime. After mating, she never leaves the hive unless she goes out with the swarm. The queen may live and do good work for three or four years, but most beekeepers prefer to replace her with a new one after two or three years in order to keep up the vigor of the colony.

Swarming of Bees.

There are several conditions which may cause the bees to swarm; first, over-crowding. When honey is being stored rapidly and breeding is rapid, the frames soon become filled with honey and brood, and the bees then prepare for a division of their forces, and a portion of the occupants move out. The first swarms usually come out from this cause, but later other swarms go out seemingly on the least provocation. The number of swarms will depend largely upon the amount of brood, the rapidity of nectar gathering and weather conditions. No swarm will go out however, permanently, at least, unless there is a queen to accompany it; one or two swarm is season is enough where the object is honey, instead of an increase in the number of colonies.

Generally speaking, early swarming is preferred, as it enables the new colonly to become well established and ready for the rich stores of nectar from the later flowering plants.

A swarm of bees in May Is worth a load of hay; A swarm of bees in June Is worth a silver spoon; A swarm of bees in July Is not worth a fly.

Queen cells are constructed indemethods this was largely true, especially of the others, and only when cially for the colder climates, but may are needed to produce new queens. These are much larger than the other the later swarms are often made very

pated during the unusual excitement. As already stated, over-crowding is the principal cause of swarming. This may be remedied to a considerable extent by dividing the colony and starting a new one, or by placing an upper story on the hive consisting of an empty hive filled with frames and artificial comb foundation. This may be followed by another and even another, if the conditions warrant. By placing a queen excluder over the first hive the brood comb will be confined to the lower hive.

11

In EVERY well organized colony there are three classes of bees, the queen, workers, and drones or male queen, workers, and drones or male queen with them, although she is often among the last to leave the hive.

This swarm usually lights upon a new colony the old queen or else let tree, shrub, br even a fence close by, and often remains there for a considerable time, probably until the bees are satisfied that the queen is with supply plenty of room for all to work.

A queen is the only perfect female, A queen is the only perfect female, and often remains there for a considerable time, probably until the bees them, because it would be fatal for them may be taken from the adhere to them may be taken from the adhere to them may be taken from the adhere to them may be taken from the old hive and placed in the center of a new one which is then filled with new one which is then filled with new one with starters. Give the empty frames with starters. Give the tree, shrub, br even a fence close by, and often remains there for a considerable time, probably until the bees the following and success of the colony.

A queen is the only perfect female, them there are three classes of the old hive and placed in the center of a new one which is then filled with new one which is then extracting the honey will often delay the swarming, but seldom prevents it altogether.

When the swarming fever is on, and dividing is resorted to, it is best to give the new colony the old queen, and re-queen the old colony with a new one. This will often upset their plans and cause them to settle down to storing again. Where extracted honey is desired, give plenty of room, ventilation and shade; for comb honey, ventila-tion, shade, and artificial swarming are prime factors.

Strong Colonies.

Strong colonies are the secret of success. As the bees come thru the winter their numbers are very often reduced to such an extent as to require some time and effort on the part of the beekeeper to bring them up to standard strength of from 40,000 to 50,000 worker bees. This may require stimu-lative feeding. As it requires 21 days to produce a worker from the egg, and two weeks or more before it will take its place among the gatherers in the field, it will be seen that the queen should begin laying eggs five weeks or more before the honey flow begins. During the period of nectar flow from the early flowers, the queen will not require any stimulating, but there are always periods when flowers are scarce and honey flow naturally ceases, when feeding must be resorted to in order to keep the colony up to its full strength.

The first and most important product of bees is honey, and its natural use is to feed the bees. What is honey? Cook says it is digested nectar, a sweet, Cook says it is digested nectar, a sweet, neutral substance gathered from the flowers. The chemical composition is very varied, owing to the large number of different kinds of flowers from which it is gathered. Then, too, the thoroness of the digestion will affect the composition of honey. The longer it remains in the honey stomach, within certain limits, the better is the quality. That is, if the bee pasture is located a mile or even 2 miles from the apigny, the honey will be of a the apiary, the honey will be of a better quality than if the bees had to go only a few rods after it.

Colors of Honey.

Not only does the chemical composition of honey differ as it comes from different flowers, but the difference in color is even more pronounced, will vary from "water white," as it is sometimes called, to a dark amber color. The light-colored honey in this section of the country comes from the clovers, basswood, raspberry, fireweed, apple, cucumber, and even the Canada thistle makes a very fine honey. The Is not worth a fly.

golden fod, heartsease, sunflower,
In early times and under the old Spanish needle, milkweed, aumach, poplar, gum and horsemint make an amber-colored honey, while the dark honey comes from buckwheat mostly.

For ordinary use on the table, the great majority of people prefer comb For the amateur beekeeper, where honey is the object, swarming should be eliminated, so far as possible, as much of the energy of the bees is dissipated during the unusual excitement. dance of honey in this form, the colony must be kept strong, and the queen en-couraged to begin laying early and constantly, so the brood chamber may be well filled with brood before the main honey harvest begins. This will drive the worker bees to the supers with their stores, and as soon as the sections are well filled and the cells capped, the bee escape board may be placed between the hive and super and left there over night, when the bees will have all gone down below and the





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Furmers who had siles saved their soft corn last year. They are getting its full value today in silage fed to fattening stock. Under such conditions the saving in one season is far greater than the total cost of a









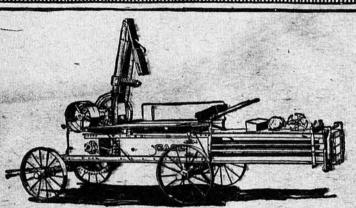
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Jayhawker's Farm Notes

BY HARLEY HATCH

Get the College Seed List. More About \$15.50 for Hogs. Manure Helps the Alfalfa. For a Better Crop Rotation. Straw for the Potatoes.

TERE IT IS almost the first day of March and we have had nothing that could be called rain since the middle of October. All our moisture since that time has come in the form of three light snows which blew hadly and in most instances left the wheat uncovered. Despite this the wheat still appears alive and ready to start out when rain and warm weather. comes. Wheat growers are praying, mightily for more moisture but the tenants who have to move would like to do so on dry roads.

It is common to pity the tenant who grain fields. has to move every year yet in many instances I think that pity is not asked. It is fun for some men to change their location often whatever it may be for their wives. The moving fever can get hitched to one very easily; I know men who have lived in almost every state west of the Mississippi River and east of the Rockies who would not be satisfied with the best farm in the West. Inside of a year it would be sold and the hunt for other pastures begun.

Kansas. I know it is not far up there but that 75 to 100 miles seems to make a change in the corn; our coin is not suited for their latitude and their corn, down mighty close to the line where it suited for their latitude and their corn, not suited to this locality. To all persons who wish seeds let me say that plowed land, 80 acres of prairie pas-the Kansas State Agricultural college, ture and 40 acres of prairie meaning Manhattan, Kan., issues a long list of Our cultivated land will be cropped farmers in all parts of Kansas who this year—if Providence permits as have all kinds of seed for sale. If one is needing seed corn, kafir, mile, fet-say-50 acres to corn, 43 acres erIta, cane or Sudan grass seed let him wheat, oats and rye, 18 acres to write to the college and ask for this list. It is sent free. The college does not guarantee the seed quoted in this list but it says that to the best of its knowledge it is good seed.

A big effort this week to get Mr. Cotton, the government fixer of prices on livestock, to raise the \$15.50 minimum on hogs failed. Mr. Cotton pretended to get an expression of opinion on this question from all the different deal in hogs, but it seems to me in wording his inquiry he was guilty of are going to have a stack of oats something which is a little like sharp on the potato patch. This straw on the potato patch. This straw bodies and individuals who raise and practice. Instead of asking the hog-men if they thought they were entitled to an increase in price he asked, "Are you in favor of abolishing the minimum? Answer, yes or no." This put_ it up to the hog men with a vengeance; but is not relished as feed. I if they said "yes" they would not have this is because the straw bore a the straw bore as the straw bore even their present poor line of defense left; if they said "no" that put them in line with Mr. Cotton in saying that \$15.50 was enough for hogs even tho fattened on corn worth \$1.75 a bushel.

The way Mr. Cotton phrased his question in the foregoing paragraph reminds me of a story I read a good many years ago. A question had been asked in some court and the witness had been directed to answer "yes or no." One of the attorneys objected, saying that the form of the question was unfair to be answered in that way. To which his honor observed that any question could be answered "yes or our potato" crop last year yielded no." "All right," said the attorney, "will you answer one for me that way?" "Certainly." said the court, Early Ohio, the seed of which had

ing I am of the opinion that those who raise spring pigs and feed them for the in raising seed for another year. winter market will profit by doing so. It is true there is no law fixing the price on a ratio of 13 bushels of corn Early Six Weeks. A fair equal to 100 pounds of pork but if that agreement does not hold there will be a bad tell us which is best adapted to time in store for the Food Adminis-conditions. We have raised all trators. They are in honor bound to varieties here in the past and our hold to that ratio after having allowed the farmers to produce pork at a loss Eureka is our best potato for the house for several months. That ratio allows supply. We have no seed for sales

a profit no matter how high the price of corn may go and you may be sure the farmers will hold Mr. Cotton to it,

We have completed the covering of one alfalfa field with manure but lack something like 25 loads of having the other covered. It has been the experience of alfalfa growers on the upinnds here that a stand can be held only by the use of manure. Our oldest sowing dates from 1912; it is on thin upland but still has a fine stand, yet last year we could see signs that fertilizer was needed. If it is not applied on our upland foxtail creeps in and the alfalfa soon is gone. We think highly falfa soon is gone. We think highly enough of our alfalfa to give it the manure even at the expense of the

We still have in the barn enough alfalfa hay to feed us another year and we are not caring whether we sell it or not. The results it is giving us this year in calf feeding make us consider good alfalfa in the mow equal to good corn in the crib, and we all know that beats money in the bank in these times,

Despite the present and prospective high price for corn we will not this year have so large a proportional acre-Requests for seed grain of various age as usual. In former years corn kinds continue to come. In reply to was raised on two-thirds if not three all such I would say that corn grown fourths of all our cultivated land but here is not suited for the north part of we have learned better than to keep we have learned better than to keep aside from a little for an early crop, is cannot be made to produce profitably. We have on this farm 120 acres ture and 40 acres of prairie meador an old New England deacon used wheat, oats and rye, 18 acres falfa and the balance to kafir. toes, garden and the like. Our ai as soon as the war is over, to still ther cut down the grain acreage and to sow tame grass for pasture.

> For some years we have had no material for mulching potatoes. The hav-ing seasons have been such that no hay was spoiled and unspoiled hay has at from \$8 to \$20 a ton in those Consequently, it was worth too have been sold at a good price las but we thought it too good to h and intended to feed it to our But we find that the stock only matured crop of grain; all the quality went to the grain, leaving in the straw. To look at it one say no straw could be nicer but contains no grain I think it wi worth more as petato mulching as cow feed.

The main part of our potate this year will consist of Eurekas and the seed will be about all home grown We have grown this variety of p here for years and to my knowledge 110 new seed stock has been imported the North in that time. Despite way?" "Certainly." said the court, "go ahead and ask it." "Your Bonor." said the lawyer, "have you quit beafing your wife?"

Despite the present loss in hog feed
Despite the present loss in hog feednoted Wisconsin grower to be bushel consists of one peck each Eureka, Early Ohiô. Irish Cobbler Early Six Weeks. A fair equal of these four sorts this summer sh

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A United Effort in Buying

Get a Good Manager the First Thing

BY FRANK ROBOTKA

us efforts of the Farmers' Alliance. and in eliminating those expenses which are due to competition itself. If all the people of a community red by these organized efforts remain. red by these organized efforts remain. Should join in patronizing a single coAmong other and more recent efforts overing a less extensive territory, may be mentioned the Kansas State Co-oprative association, organized in 1901; and the Right Relaionship league, in 1900. Of these, perinst the last is meeting with the greatst success, its efforts being limited mainly to Wisconsin, Minnesota and love.

Should join in patronizing a single cooperative store, the duplication of expense which results from the-division of business among many small establishments might be prevented.

The very marked success of co-operative merchandising in the European countries has been due largely to a federation and extension of the co-operative principle to the wholesaling business and even to the manufacture of the commodities which the stores

Use Business Methods.

A survey of the history of the co-op-erative store movement leads to the renclusion that by far the greater part of the unravorable record is due to the mwise propaganda of enthusiasts and to inefficient management. Stores fre-that quently are organized without due reto inefficient management. Stores frequently are organized without due regard to existing conditions, on the crest of a wave of enthusiasm aroused by propagandists and promoters. That merchandising, as a general thing, does not lend itself to co-operative effort so advantageously as do production and marketing is borne out by history and experience.

The number of co-operative stores is about 125 and is changing very little. The figures for 1914 as compared with 1913 show an increase in the average gross sales a store, which, however, may have been due partly to the prevailable to sales increased appreciably.

tries the success of distributive co-operation is due largely to the fact that the store is not a separate, isolated institution, but is a unit of a vast scheme of federated stores. The stores are financed co-operatively; they are insured co-operatively; they do their wholesale buying co-operatively; many of the goods sold are produced co-operatively. The entire course of the commodity from its production to its consumption is "paved with co-operation." Under certain conditions the co-operative term on perform a legitime to

ative store can perform a legitimate economic function, but it will meet with stances only when attendant circumstances are favorable. Often instead of a co-operative store a co-operative buying association, for the purpose of clubbing orders for limited classes of goods, should first be organized, and this, if business warrants may event this, if business warrants, may eventhally be transformed into a co-opera-tive store, carrying a varied stock and catering to various classes of people.

Rules for Success.

Clarence Poe, in his "How Farmers Co-operate and Double Profits," lays down five rules which should be observed in organizing co-operative stores: They should never be started until a thoroly safe and competent man-ager is found.

an adequate patronage in prospect, either thru taking the place of an existing store or by taking over the Rarely does a co-operative store suf-

profits on patronage.

To these might be added that a store should be governed on the one-man-onevote principle, and should apply at least a part of the profits as dividends on the profits as dividends on purchases of stock, thus greatly increasing the working capital. This last profits, principle has been one of the foremost English co-operative stores. If due regard is given to these principles there

ress may be obtained. In order for co-operative stores to be- all expenses.

THE HISTORY of distributive cooperation in the United States is
full of vicissitudes. There have themselves more efficient than privately owned stores, for in most communities the profits of the latter cannot be considered excessive. The mere fact that a store is co-operative does not in itself tend to promote efficiency. ave been made to establish co-operaive stores on the Rochdale plan, which
ad been so successful in Great Britain.
In management; if anything the tendimmong the organized attempts on a
arge scale may be mentioned that of
lie Patrons of Husbandry in 1867, the
lovereigns of Industry in 1874, the
lovereigns of Labor in 1882, and the varithights of Labor in 1882, and the varithights of Labor in 1882, and the varithights of the Farmers' Alliance, and in eliminating those expenses

of the commodities which the stores Efforts thus far to federate co-oper-tive stores for the purpose of organ-zing a co-operative wholesale associ-ation have met with little success. of any such wide-reaching scheme of federation. Efforts to establish such federation in this country have thus far met with comparatively little success.

- Results With 125 Stores.

In an investigation of the co-operative stores in Minnesota it was found

charlence.

About two-thirds of the companies in England and other European country reporting regarding the distribution of profits pay dividends, but of these a considerable fraction pay on stock only. Comparison of the two years indicates a slight tendency toward increasing stock dividends at the expense of trade dividends.

For all stores adequately reporting, ne average gross sales in 1914 were \$45,836, the ratio of expense to gross sales was 11.7 per cent, and the ratio

of net gain to gross sales 4.5 per cent.

If the success of co-operative stores be measured by the ratio of net profit to gross sales—which is an approximately correct measure in view of the ground religion of calling at connective. general policy of selling at competitive prices—the following conclusions as to the influence of various factors upon success may be drawn from an analysis of the statistics.

Fair Ratios.

The factor showing the greatest influence is the ratio of total operating expense to gross sales. The lowest ratio is not always the best, but a fairly low ratio goes with much higher profits than a large ratio. The most satisfactory ratio appears to be about 10 per cent.

The rapidity of turn-over of stock greatly influences success. The largest net profit was found where the gross sales were about three times the inven-They should have what seems to tory, and the lowest where the gross and adequate patronage in prospect, sales were one and three-quarters times

work of a co-operative buying society.

3. They should sell only for cash—
4. They should include townsmen, as well as farmers.

Rarely does a co-operative stock for because of too much paid-in capital stock. A capital equivalent to about be the most satisfactory. Stores with They should pay only legal in-terest on the stock and divide the other profits on patronage.

They should pay only legal in-terest on the stock and divide the other erally decidedly less profitable than those with a small indebtedness.

The size of the business has conshould provide for a sinking fund, siderable influence upon success, although the should provide for a sinking fund, siderable influence upon success, although the stores are found in some successful stores are found in groups of all sizes. Broadly speaking, the larger stores are the most successful and the very small stores make low

In a business of a given size the most factors in the marvelous success of the efficient management is secured by the gard is given to these principles there the property of the higher salaries. They not only secure enough additional profit to pay higher salaries but also coss may be obtained. show a higher net gain over and above



BEFORE buying a corn planter consider this fact—accuracy is essential to the biggest yields. An inaccurate planter covers up its mistakes. It does hit-and-miss work. It is a "thief in the field" and you don't realize how much it has stolen until the corn plants are above the ground and you compare the results with those obtained by using an accurate planter. If it misses only fifteen kernels in every 100 hills there is a loss of five bushels per acre in the yield.

You can get a planter the accuracy of which is proven before it leaves the factory. That planter is the

JOHN DEERE 999 Corn Planter

The Accurate "Natural Drop" Planter

The same accuracy that you would get if you painstakingly counted out the kernels of corn and dropped them by hand—that is the accuracy of the John Deere No. 999 Planter. It is the accuracy of the hand planting method made tireless and rapid by mechanical devices.

John Deere Planter accuracy is the result of 50 years' experience-50 years of thought, of study, of experi-menting with that one goal always in mind—accuracy. The 999 has right-ly been styled the "super-planter."

Careful design and workmanship have made possible this high degree of accuracy. Each kernel enters the cell in the seed plate in a natural position. The sloping hopper bottom feeds the corn to the cells whether the hopper is full or nearly empty. It is the most simple, yet most effective planting mechanism ever used on a corn planter.

You Control the Number of Kernels Per Hill

Without changing seed plates or even stopping the team you can plant 2, 3 or 4 kernels in the hill, whichever number you decide the land will sustain. Merely shifting

the foot lever varies the number dropped and you can change the drop as frequently as you desire. The variable drop mechanism of is just as perfect and well protected as the gears on the best automobiles.

You can also drill corn with the John Deere Planter. Change from hilling to drilling or back to hilling is made instantly by means of a foot drop lever. Not necessary to get off the seat or stop the team. The 999 Planter gives nine different drilling distances without changing seed plates.

You will appreciate the substantial front frame of this planter; the disc marker without any troublesome ropes; the underhung reel, easy to of seed plates for handling various sizes and types of seed and the quick detachable runners. This planter can be furnished with fertilizer and pea attachments, also with various types of furrow openers.

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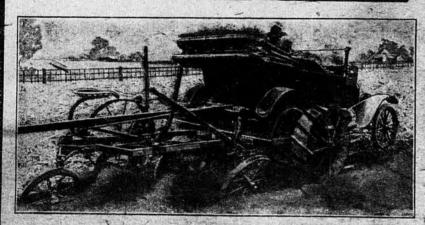
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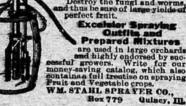
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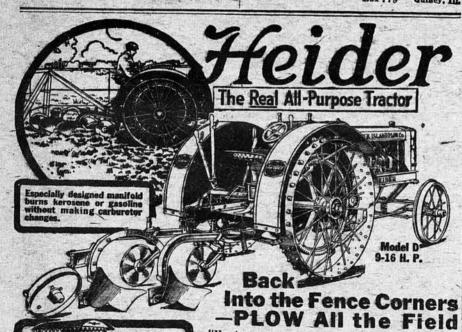
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Here is a Real "Hog Talk"

Pork Production Can be Increased but it Takes Brains BY EDWARD COOK

unworthy of the name of artist.

The great law of nature is that, "like begets like." Every animal under ordinary conditions brings forth after its to meet all the requirements of grown kind. The first question that confrants us is the relative value of two animals that are to be mated. We have the two animals and from their union springs a third. This offspring is the product of parent nature. Certainly it is a result of an equal influence of male and female. But there is always variation. In a litter of pigs we may expect some to resemble the sire and some the dam. The union of the two may produce some that are near our ideal. This normal variation gives opportunity for selection and improvement. Heredfor selection and improvement. Hered-

An animal is the sum product of all its ancestors. The two immediate parents contribute between them one-half the characteristics, the grandparents one-fourth, and so on. Every ancestor has some influence, but the influence after the sixth generation diminishes rapidly. It is those animals close up rather than far back that determine the character of the offspring. Consequently we must give closest attention to the more recent ancestors.

Every animal inherits all the character of its two parents, but a great ma-jority of these characters never develop visibly in the animal, but lie unde-veloped, and may be transmitted on to the next generation and appear as visi-ble characters. This accounts for ani-mals being totally different from their parents, but resembling remote ances-

We have seen from the law of heredity, that an animal is of very complex composition. Hence the uncertainty of breeding. All the influences of remote ancestors are striving for mastery, and we never know which will predominate in the offspring. As the result no two animals are alike, variability must be expected. But this variation is a source may be following his great grandiath of great strength to the breeder. Without variation no improvement would be progressive age, we must be up to date possible. The parents may be of average type and the offspring both above and breed a type that responds quickly and below that average. Then the to a balanced ration. breeder's task is to select the animals above the average and breed from these. rapidly coming to a thoro understanding of the true value of the size and uous selection, which is the most pow-erful means of improvement, and is the only means of permanent improvement under the breeder's direct control. But before selection could be carried on inbefore selection could be carried on in-telligently, an ideal type must be adopted. The selection of the sire we consider very important, as he is even more than half the herd. Having made more than half the herd. Having made our selections, and mated them the next question that confronts us is the feed-

THE breeding of hogs if rightfully ing and development; we must so feel followed, is an art. It may sink as to develop to the fullest extent very low, but if the knowledge and all of the breeding organs and be in power, which are free to every breeder best possible condition to develop the who chooses to make them his are properly applied, the breeder will not be properly applied, the breeder will not be unborn litter. And the first thing to properly applied, the breeder will not be remember is feeding for development that the rations must be so balanced as

middlings, alfalfa, milk, or oat dlings. Rye middlings or chep show for selection and improvement. Heredity here plays a very important part in animal breeding. We work on the theory that, "like begets like," in breeding operations, always selecting parents, with as many desirable points and as few objectionable points as possible, We must do this if any improvement in the offspring is to be expected.

About the Breeding.

dlings. Rye middlings or chep should be fed to breeding hogs. Any of feeds properly balanced, with plent exercise, which by the way is very portant, are essential to the making the desirable production and properly balanced, with plent feeds prope sows in winter like to lay in the If the herdsman does not get enoug ercise he can drive these sows every day, but if this should get monotonous, have their sleeping ments some distance from the place, and they will travel back forth several times a day, or you can scatter shelled corn or bats over the pasture and this will induce them to ex-

ercise. Exercise they must have to fully develop the litter of unborn pigs.

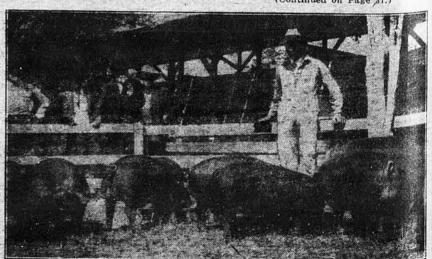
It is impossible to give in detail any system for all to follow, as no two breeders handle or feed alike, all follow methods, which said their systems. methods which suit their own veniences.

Balanced Feed Needed.

Developing hogs on corn and water is a thing of the past. We have learned by experience that a hog will not do his best unless he has put before him a balanced ration to fully develop all parts of the body equally. No doubt some of you have heard the remark by farmers, "My hogs are not any more than paying for their feed." There are two things that may be wrong with this farmer, one is he may not he breeding a

quality to be secured in a short time thru the use of purebred sires. A quicker method of arriving at the desired end is the purchase of a few pure breeding stock to be refained on the farm. There is no class of live-tock

Forty-nine per cent of the ment prod-(Continued on Page 37.)



A Winning Litter of Eleven Duroc Pigs. It Took Brains and Industry Tho to Make Them Win.

HIS and of th ias eve duced s ble po sever ited. oroly ar ation sl ely an interf

n. dith st imposs best culti racter

follow that n pproxim

Consider the Corn Yields

Good Seedbeds are of Much Value in Kansas

BY J. G. MOSIER

and high price for corn, the care of the crop should be better than has ever been before. The seedbed oduced should be one of the most deable possible for the crop. The fall wing should be worked early, deep, it several times before the corn is a several times before the corn is of the cultivation of corn is to trate on oftener than is necessary to keep.

Weeds Cause Most Injury.

The most serious thing in the growing The most serious thing in the growing a corn crop is the injury by weeds. Illions of dollars are lost in Kansas ery year by the growth of weeds in a corn fields, and a form of cultivate that does not kill the weeds is not a dapted to a farm that will groweds, as all of our farms do. At the University of Illinois, plots at were well prepared for corn, but in

at were well prepared for corn, but in hich the weeds were allowed to grow, believed 7.3 bushels an acre as an 8ar average, while plots just by the de with the ground prepared and the raplanted in the same way, but the eds kept down by scraping with a e, produced 45.9 bushels or an inase of 38.6 bushels of corn an acre. is shows the necessity of keeping the eds down. The best yield that was ained where the weeds were allowed grow was 16 bushels an acre, while largest yield where the weeds were ppt down without producing a mulch as 75.5 bushels. Killing weeds is the imary object of cultivation in the rn fields of the Middle West.

Do Not Injure Roots.

Another very important principle to followed in the cultivation of corn that no injury be done to corn roots. pproximately three-fourths of the roots the corn plant develop in the plowed il. Many of these are not more than inches deep. They usually start from the stalk at a little less than 2 inches depth and gradually go deeper as the stance from the hill increases. The epth of planting makes little difference in this. It would be well for a truer in his cultivation to examine usely the work that is being done with the cultivator and see whether it is incultivator and see whether it is in-ring corn roots. If it is, the thing do is to cultivate shallower, and if e cultivator cannot be adjusted so no pury will be done to the corn roots, en it will be economy to throw this one side and get one that can be so

cultivator that Any cultivator that runs more can 2 inches in depth is bound to inthe roots and lessen the yield of it used after the first cultivation. vation is frequently done from 3 inches in depth, and there is no that for the average season the

d several times before the corn is needed. Land to be spring plowed, espially stalk ground, should be disked own the plowing is done, the cultivation of corn is to the divate no oftener than is necessary to keep down the weeds, and this is of special importance during dry seasons. Experiments show that for the dry seasons of 1911, 1913, and 1914, the uncultivated plots produced an average of 41.3 bushels with harrow and disk is of the utst importance. Remember that corn is inches, or a difference of 9 bushels in favor of no cultivation. The cultivation was done to a depth of about 3 inches, or the usual depth with the three-shovel cultivator. The ground had been plowed 6 inches deep. In laying corn by, the twisting of the leaves frequently follows the cultivator.

Weeds Capse Most Injury.

The stirred soil during these dry seasons was so loose and dry that the corn obtained no plant food from it. Roots did not penetrate it. It was worthless so far as its plant food went in feeding the corn. Its only value was in the conservation of moisture, and when corn gets large enough to shade the ground, and the roots become distributed through the soil, there is very buted thruout the soil, there is very little loss of moisture by evaporation from the surface of the soil in the corn field. On the uncultivated plots, the roots could use the plant food in the entire plowed soil, and this is the source of much the larger part of the food for the crop. Half the plowed soil in the cultivated plots was of very little or no use to the crop. Cultivation can be done deeper and oftener in wet seasons than in dry ones without great injury to the crop.

Some Essentials.

1. A deep, firm, well-prepared seed-bed is essential for aeration, proper root development, warmth, formation of plant food, and the conservation of moisture.

2. Two or three crops of young weeds may be destroyed by cultivation previously to planting and at the same time moisture is conserved and plant food developed for the use of the crop.

3. The killing of weeds is the most important factor in the cultivation of corn on silt loams, loams, and sandy

4. The first cultivation may be deeper than the others altho this is not necessary if the soil is in good physical

5. About three-fourths of the corn roots develop in the plowed soil, and deep cultivation results in injury to

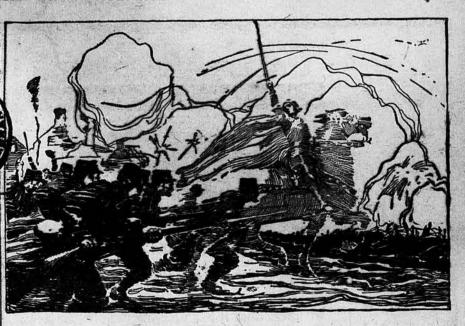
6. In dry weather, cultivation should be done shallower than in wet weather. It should not be done to a greater depth than 2 inches at any time after the first cultivation. If weeds get a start, it may then be a choice between the injury to the crop by weeds, or by root pruning with the deeper cultivation necessary for killing weeds.

7. The best type of cultivation is that which is deep enough to kill the weeds, but sufficiently shallow so that root pruning is reduced to a minimum.

8. Cultivation is more important on will be decreased materially by heavy soils, such as clays and clay method. A 5-year average at the loams, than on the lighter soils.



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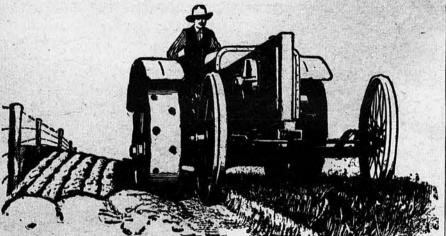
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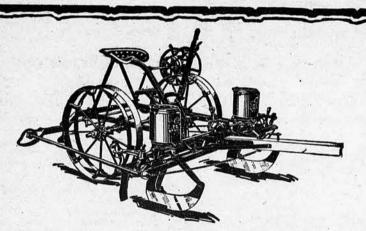
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Planter.

These machines plant corn accurately, whether used with edge drop, flat drop, or full hill drop plates; whether the corn is checked or drilled. The drop clutch can be changed, while the planter is working, to drop 2, 3, or 4 kernels to a hill. The tongue is easily adjustable to the height of the horses. A handy foot drop lever makes head-row planting easy.

When you look over the International or C.B.& Q. planter, don't miss the automatic marker, a handy feature that saves a lot of work and time. There are fertilizer attachments if you want them, combination pea and corn-planting hoppers.

a lot of work and time. There are fertilizer attachments if you want them, combination pea and corn-planting hoppers, open wheels or closed — your planter will be equipped just as you want it. You can plant rows 28 to 48 inches wide by 2-inch adjustments, with four distances between hills.

These planters are so good you will want to know all about them. Drop us a line and let us send you full information.

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Let's Put 'Er Over the Fence

There's Still Time to Hit a Home Run in the Club Game BY JOHN F. CASE, Contest Manager

Last year the average earnings for the entire club were more than \$100. I believe we will equal that amount

Lester Stout this year. One thing sure, if you don't get into the game you can't win. In many counties the membership still is incomplete. Sign the coupon and send it to me without a minute's delay. If your county membership is complete and altho he had eight pigs entered he you will not need to hustle recommendations. If there still is a chance I profit record was \$63. I can hardly will send the recommendation blank understand why with these records but will send the recommendation blank back to you in the very first mail.

anything unfair or immodest about a boy writing and telling me that he would like to be county leader and that if chosen he will go the limit in making his county a topnotcher. A few boys have done that. Nor am I dis-pleased when some boy writes and tells me that he thinks a club friend would be the proper person to appoint. We made few mistakes in selecting county leaders last year and we expect to make few this year, but I want to secure every possible bit of information about boys who have the quality of leadership. Training boys for leadership is, after all, the biggest thing we are accomplishing in this club work. The boy who discovers that he has the ability to lead never will be an "average" boy again, nor will the boys who associate with him and get into the real specific of county pride ever be "average" thought she would make as much of the cure every possible bit of information spirit of county pride ever be "average" boys. In fact we have mighty few "average" boys in the Capper Pig Club. The "average" boy hasn't pep enough to get into the game.

To prove that pep, business ability, and the ability to produce pork make a good combination, county leaders won

OULDN'T it be fine if you could earn \$100 for one day's work?
Not many of us have the ability or the opportunity to do that, but to earn \$100 one must first have the opportunity to work for it. This is the last call for membership applications in the Capper Pig Club. The coupon will not be printed in the Farmers Mail and Breeze again. The boy who signs the application right now and hurries it in to me still may have an opportunity to earn \$100 this year.

Last year the content manager

award. Lester was one of the ton pork tered he produced 2,165 pounds of pork and showed a net profit of \$248. This profit estimate made in December unprofit this week Lester tells me that the boys who enter gilts have an opportunity to win. He should do even better this year with a tried sow entered the produced 2,165 pounds of pork and showed a net profit of \$248. This profit estimate made in December unprofit to work local every one of his pigs for breed ing purposes and could have sold many more. His excellent record proves that the boys who enter gilts have an opportunity to win. He should do even better this year with a tried sow entered to many have an opportunity to win. He should do even better this year with a tried sow entered the produced 2,165 pounds of pork and showed a net profit of \$248. This profit estimate made in December unprofit to work less that the boys who enter gilts have an opportunity to win. He should do even better this year with a tried sow entered to many more. His excellent record proves that the boys who enter gilts have an opportunity to win. He should do even better this year with a tried sow entered to many more. His excellent record proves that the boys who enter gilts have an opportunity to win. He should do even better this year with a tried sow entered to many more. Second in pork production and profit the coupon had a Duron sow and with seven had a Duron sow and with s

came Christopher Williams. Christopher had a Duroc sow and with seven pigs entered produced 1,420 pounds of pork, making a net profit of \$265, Richard White, 1916 and 1917 member, who also is president of the Duroc who also is president of the Duroe Breed Club, had eight pigs in the con-test. He produced 1,290 pounds of pork and showed a net profit of \$168. Glen Hunter had a Poland China sow, With six pigs he produced 780 pounds of pork and his net profit was \$127. Edward Baker had a Poland China, County leaders, and some who would like to be leaders, have been hustling like the mischief to complete the membership where only two or three boys nave lined up for work in Chase county. Lester and Glen renewed membership and Dwight Weaver of Elmdale has joined. There is no more enthusiastic member of the Caparacteristic purposes. three boys have lined up for work in is his prize winning story:

"I bought my sow of W. A. McIntosh of Courtland, Kan., on January I, 1917," wrote Lester, "but did not receive her until February 3. She was only a gilt. She weighed 210 pounds when I began keeping record of her

feed February 26.
"Her feed consisted of oats. corn, shorts and milk, tankage and dry alfalfa. I fed her some stock powder once a week. I kept her sleeping quarters clean all the time.

thought she would make as much of the nine as if she had saved them all. I didn't feed her anything for the first two or three days, but gave her plenty of fresh water. For the first seven days I only fed her half feed and then increased it until I was feeding her what she would clean up greedily. The a good combination, county leaders won a number of the prizes last year. One of the live wires of the club was Lester Stout of Cottonwood Falls, Chase county. Lester had the winning spirit. He was up on his toes thruout the game and didn't sulk when he found that some of his competitors were a few points ahead. Every boy in Chase county turned in a report and what she would clean up greedily. The pigs grew as well as anyone could wish. As soon as the pigs were able to rull green alfalfa pasture. When the pigs grew as well as anyone could wish. The pigs grew as well as anyone could wish. in Chase county turned in a report and if all of them had shown as much pep is as Lester did there might have been a different story about the pep trophy (Continued on Page 40.) (Continued on Page 40.)

THE CAPPER PIG CLUB

John F. Case, Contest Manager, Capper Building, Topeka, Kan.

I hereby make application for selection as one of the ten repre-

county in the Capper Pig Club Contest. I will try to secure the required recommendations and if chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read articles concerning pig club work in the Farmers Mail and Breeze and will make every possible effort to acquire information concerning the breeding of swine. care and feeding of swine.

Signed Age

Age Limit 12 to 18

What Food Control Means

The Administration Has Certain Definite Duties

BY HERBERT HOOVER

THERE APPEARS to be a good around which such speculations should take place. Every action of the Allied amongst the agricultural community as to the policy and scope of the Food Administration with relation to price fixing. I wish to say at once, and emphatically, that the Food Administration is not a price-fixing body except would have been the center of specific process. tration is not a price-fixing body except with regard to certain commodities which are today dominated by wholly abnormal overseas commercial relations, and the surrounding factors with regard to which are such as to project great dangers both against the farming community and at the same time the consuming community.

The two commodities under regula-

The two commodities under regula-tion are wheat and sugar. With the further exception of cases in which it has intervened purely as a friendly in-termediary between organized produc-ers and consumers—as in city milk— the Executive Department of the gov-ernment has no authority and no de-sire to fix the prices of products of agriculture.

agriculture.

It seems necessary and desirable to re-state the reasons already referred to by the President which render it necessary and possible to undertake the control of the marketing of these two commodities. The economic forces arising out of the war, which have necessitated this action, are in the main as follows:

1. All of the overseas shipping in the world has been placed in government control and the volume of this shipping is much reduced. As a con-sequence there is no longer any free play in commercial overseas traffic as the governments involved must designate what tonnage is to be assigned to each commodity and each class of traf-

Inasmuch as normal commercial overseas traffic has broken down, it was necessary for the Allied governments in Europe to set up single agencies for the purchase of the whole of their food supplies from abroad. Of American wheat their purchases are of sufficient volume to control the price —and this is the only agricultural commodity where this maintains.

3. In the face of a necessary duty to reduce our consumption of food—so badly needed by the allies—it has been absolutely necessary to arrive at a division of these two commodities in the common interest of the war, and to control the reduced supplies internally, in order that all persons may be treated alike—rich and poor—and this implies a control of distribution and

Control Measures

As stated, practically the only comwheat we were faced with a single agency whose proportionate purchases to the total were such as to dominate the price. Any relationship with this agency by our officials in limiting their operations thus becomes absotheir operations thus becomes abso-their operations thus becomes abso-lutely price fixing, and it becomes at to the profits in distribution of a set of the profits in distribution of a set to the profits in distribution of a set bilized commodity and the consumer producing community, or done se-creetly, at the will of government offi-cials.

The only other situation where the Food Administration has interested it-self in the prices of agricultural prod-self in the prices of agricultural prod-self in the prices of agricultural prod-

to export from the United States such ministration has acted merely as normal wheat marketing machinery of request of the producers. the country was completely paralyzed.

wheat protect their operations by sales of futures, involved a dangerous series of speculations, nor did the exchanges were called together and upon their themselves. themselves wish to be the centers

would have been the center of specu-lation and the cause of violent fluctuations in the exchanges, of the same character that occurred during the last five months of the 1916 harvest year, when, altho the farmer had marketed his wheat at an average of \$1.44 a bushel, the price, due to these very causes, at one time rose to more than causes, at one time rose to more than \$3 a bushel, and flour to more than \$17 a barrel.

In these circumstances an independent commission was appointed by the President, upon which the farming community was represented by six members out of 11, and this commission unanimously agreed upon the price of \$2.20 a bushel for No. 1 Northern wheat, based on Chicago, as a market center, and in coming to its conern wheat, based on Chicago, as a market center, and in coming to its conclusions this committee considered the necessity of giving to the farmer a price not only covering his cost and normal profit but also a price that would stimulate and assure future production. That their judgment has proved correct is evidenced by the fact that 42 million acres of winter wheat that 42 million acres of winter wheat have been seeded, being an increase of about 2 million acres over any acreage hitherto known in our history and some 7 million acres over the pre-war average.

Basic Prices

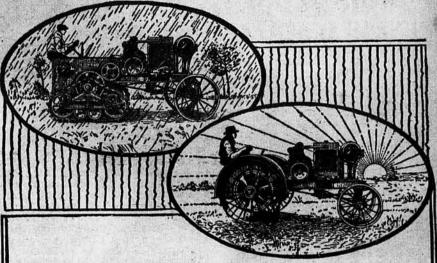
Having established the basic price of this commodity, the Food Administra-tion has followed it thru the manufacturing and distributing trades with limitations as to the profits to be earned in distribution and has thereby brought this prime commodity to the door of the consumer at the least possible expense and at a margin between producer and consumer less than nor-The same situation confronts the American farmer and the American consumer in wheat for the next harvest year.

In the matter of sugar, the same economic forces are in action to dis-place normal traffic, except that in this case the American people are purchasers abroad of the large portion of their supplies. In addition to the necessity for governmental action to secure a fair division of the available sugar to the American people, it has been common business prudence to join with the Allied governments in a definite contract with the Cuban authorities as to price, rather than leave it to the fluctuations which would arise from short supplies and irregular shipmodities in which these new economic forces dangerously involve the United States are wheat and sugar. All control measures are the less of evils. In interests of the American sugar produces the less of evils. In the state of the American sugar producers they have been made in consultation. rangements made have involved the interests of the American sugar producer they have been made in consultation with him and with his co-opera-tion, in order that he might be pro-tected in his industry. In this case, as with wheat, the distributing trades have been placed under regulation as

Furthermore, in the ordinary course of our wheat marketing, the wheat milk for the cities, where the progoes to the markets during the first ducer was himself organized and was four months of the harvest year and in sharp conflict with the consumer, during this period, were no control established with the allies and neutrals, work hardship on both producer and it would be entirely possible for them consumer. In such cases the Food Ada portion of our wheat supplies as to friendly agent in securing a settle-leave our population short of bread, ment. In all such cases the producer It has therefore been necessary, in the must necessarily be a contracting party interest of the American consumer, and therefore must be satisfied with that the government should intervene the arrangements made, and no such the arrangements made, and no such to protect his supplies. Again, in the negotiations have been undertaken by face of this abnormal situation, the the Food Administration except at the

the country was completely paralyzed. A similar case lies in the purchase To have attempted the normal course of marketing thru the boards of trade and exchanges, by which the buyers of wheat protect the interest of the country was completely paralyzed. A similar case lies in the purchase of pork products by the Allied governments, which while not sufficiently and the country was completely paralyzed. A similar case lies in the purchase of pork products by the Allied governments, which while not sufficiently analyzed.

(Continued on Page 40.



The All-Weather Tractor

Crawler Or Round Wheel (Interchangeable)

The Acme Gives You Both In One Tractor

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W. H. Koell, Box 710, Hampton, Ia. ER AND TIMOTHY BARGAIN BARGAIN

Earliness of cultivation is important. near the top, causing it to wilt and If plowing is delayed until late, many drop off above the girdle. The only of the new feeding roots which already remedy for the crown borer is to ex-Box 635 CLARINDA, IGWA have developed will be cut off. This

To Grow More Good Berries Best Overall &

Careful Cultivation Will Pay Well This Year

BY JOSEPH OSKAMP

ANY GROWERS of blackber- is a distinct loss to the plants at this ries and raspberries have betime. Plow and prepare the land as come discouraged in the last early in the spring as it is fit to work; few years because these crops no then keep a dust mulch on the surface longer do well and have "run out," as by frequent cultivation. A small, berry the expression goes, in their localities, cultivator is suitable for this purpose. This has indeed happened, but it is not Deep tillage is not desired; it should to be blamed to the "running out" of be just deep enough to break the surthe variety but to other perfectly defi- face crust. Remember that frequent nite, altho not always obvious causes, cultivation will help to secure large, The prevalence of diseases on these perfect berries thruout the season fruits has increased greatly, due to A cover crop of some sort should be the dissemination of infected nursery sown in late summer. Probably millet stock and to a general neglect of the for this purpose is as good as any-plantations, and is responsible in a thing. It supplies one of the best large measure for reduced yields. Lack covers of the non-hardy crops and of good tillage, poor cultural methods, leaves the soil in particularly fine condevelopment of diseases.

The most careful attention should be given to the purchase of nursery stock. Buying from only the most reliable plant men who have a reputawill help to keep the plants healthy protection. but is a preventive measure-rather than a specific remedy. Cutting out all the old canes as soon as the crop is harvested and burning them is a simple but important control measure.

It also seems advisable to rotate the patch more frequently than has here-tofore been practiced. Aim to give the plants excellent care so they may attain maximum production early, and discard them before they lose vitality and become diseased, start the new patch always on a fresh piece of land.

Brambles are moisture and humus loving plants. They naturally thrive in moist locations where leaf mold is to develop but also greatly reduces the abundant, as in old fence corners and chance of infecting the new growth clearings in the woods. They may be with any diseases which the old canes grown, however, on almost any well may have. drained soil, but the fruit does not attain its maximum size and perfection except on a deep, rich loam. A artificial support it is helpful to pinch clay subsoil is an advantage on ac- off the tips of the young shoots in the count of its moisture holding capacity, summer when they have reached a As a general rule, the heavier types height of 2 feet. This retards the immediate elongation of the cane and berries and the lighter loams to rasp- causes lateral shoots to push out, mak-

nure, which is preferable to using commercial fertilizers exclusively. blackberry and raspberry culture, moisture is more frequently the limiting factor than plant food; hence it becomes highly important to improve the moisture condition of the soil. ning the length of the row and about This is exactly what manure does and 3½ or 4 feet high; or two wires one at commercial fertilizers do not do. Manure adds humus, which greatly in- factory trellis. creases the water holding capacity of the soil. Manure may be turned under' when preparing the soil for planting or it may be applied in the fall or winter as a mulch. It can be used freely; there is little danger of manuring these fruits too heavily.

Plow the land deeply and work the soil down into good condition before planting. Plants may be set 3 or 4 feet apart in rows 7 or 8 feet apart. Planting may be done in any conveni-Planting may be done in any conveni-ent manner, but in field culture the from stolons or rooted cane tips. In plants generally are set in furrows, which makes the work much more rapid. The important thing is to set and firm the earth about the plant transplanted to new locations. roots, leaving the plants set tight in the soil. Spring planting generally is blackberries are bothered by leaf-eat-to be preferred, but if fall planting is ing insects. In case they appear, how-done the plants should be mulched ever, they may be possible of leaf using with straw or other material.

Lack of cultivation is a common 2 pounds of paste or 1 pound of powcause of failure with berries in Kansas. Dry weather about the time of ripening, especially of blackberries, is raspberries and blackberries. The not unusual in this state. Without crown borer generally is found workproper cultivation the berries soon go in the roots or near the ground, to "nubbins" and become dry and tasteless.

and failure to use manure or other dition for spring work. Rye is an exfertilizers have all had their direct cellent winter surviving crop but more effect on reducing yields as well as difficulty is experienced in turning it their indirect effect in encouraging a under and getting the ground in condition afterwards.

Where straw can be procured cheaply, mulching may take the place of cultivation. A deep mulch will conserve the soil moisture quite as eftion to sustain is a safeguard. Young fectively as cultivation and very satisplants should not be taken from an old factory crops will result. The soil plantation unless one is satisfied that should never lie bare over winter, but the stock is not diseased. Spraying either a mulch or cover crop may give

The training of the canes is a mat-ter that should suit the convenience of the individual grower. There are two considerations, however, which should not be lost sight of. The plantation should be confined either to hills or narrow rows. All suckers or new plants which arise outside of these confines should be destroyed by hoe or cultivator, for without such attention the patch will soon become a thicket. When the fruit has been har-vested, the old canes should be cut at once and burned. This not only gives the younger canes a better opportunity to develop but also greatly reduces the

When the plants are grown without ing the bush lower and more nearly The soil can be improved greatly by liberal applications of barnyard maself-supporting when laden with fruit. spindling laterals.

Providing some means of support for run in convenience in cultivation and picking and in less loss of fruit. The canes may be tied to a single wire, run-3 feet and one at 5 feet, make a satis-

The red raspberry and the blackberry may be propagated from suckers, as the 1-year-old root sprouts can be These fruits readily transplanted. also may be propagated by root cuttings made in the fall and stored in sand in the cellar or buried outside in a well drained spot. Roots about the size of a lead pencil are dug and cut in 3 or 4 inch lengths; in the spring these are planted in nursery rows.

late summer the long canes trailing upon the ground take root and form new plants. In the spring these can be the crowns slightly below the surface severed from the parent plant and

young canes early in the summer. The moth laying the egg girdles the cane

(Continued on Page 40.)





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Preparing for Baby Chicks

Capper Poultry Club Girls are Receiving Orders

BY BERTHA G. SCHMIDT, Secretary

ATHERING eggs from their contest flocks is filling Capper Poultry club girls with delight. Soon weather conditions. Regulation is made by raising the sash or lowering it, using your own judgment.

"These boxes can be left outdoors in the coldest weather, and the chicks will grow strong. This is not a theomuch recently. "You see I am comfor raising chickens." much recently. "You see I am commencing early," she continued. "I put an ad in the paper that I would have a little chicks to sell and in a few days of I received the order."

Then there's Letha Emery down in Crawford county who received more than 60 eggs the first two weeks she had her pullets penned and who is saving eggs from her contest flock to set in an incubator.

It isn't too early to be planning for your baby chickens. Remember that all contest chicks must be toemarked so that you can tell them from the farm flock. To toemark the chicks ob-



A Shawnee Booster.

tain a toemarker from a poultry sup-ply house or mail order house. They ply house or mail order house. They ply house or mail order house. Puncture the web of the chick's foot. To do this is not cruel for it does not give the chick any more pain than pricking the outer skin of your finger would give you. Of course if you wish, you may use leg bands for markers, but this will give you more trouble as the bands must be changed as the chicks grow or they will cut their legs.

When I attended a meeting of the Kansas Woman's Farm and Garden Association in Topeka last week I wished that every Capper Poultry club member could have been there. The place that chickens are going to take in increasing the food supply of the United States was brought out emphatically. One of the speakers, Mrs. Charles Luengene of Topeka, a succession of the speakers. ful raiser of poultry, gave many help-ful points about the care of baby chicks. All of the chickens on her farm. Mrs. Luengene said, are hen hatched. Until the hen is ready to leave her brood Mrs. Luengene uses what she considers to be the most healthful and simplified method of caring for them—a box with a glass

Here are Mrs. Luengene's instructions: "Using a box 2 by 2 by 3 feet, or larger, cover all sides with heavy wrapping paper or ruberoid, leaving the front open so as to arrange cleats for the window sash; then place the sash in front of the box and you are ready for the hen and her brood.

of raising chickens.

"The feeding of baby chicks is often a problem. To make strong healthy chicks we feed a baked ration consisting of equal parts of bran and corn meal, a little soda, milk and eggs which test infertile at first testing. We bake this for several hours in a slow oven and feed it to the chicks three times a day, giving them all they will eat at a feeding. With plenty of fresh water and exercise the chicks will grow healthy and strong in a

short time.
"After the hen leaves her brood which is usually in from six to eight weeks, we feed a commercial chicken feed in straw litters and let the chicks scratch for it."

The picture used in this week's issue shows Gwendolyn White, a new member of the Shawnee county club, and her chickens. Gwendolyn is eager to see her county push ahead and her father is helping, too.

father is helping, too.

"This is how I happened to choose Rhode Island Reds for my contest chickens," wrote Madge Slater of Lyon county, president of the Rhode Island Breed club. "Two years ago last fall I entered my canned fruit and jelly in the county contest held in Lyon county and received first prize which entitled me to a trip to Manhattan for a week with all my expenses paid. We went during Farm and Home Week. I took some of my fruit and jelly and won first on my jelly and second on my fruit, making \$7 I earned there besides my trip. I was undecided what to do with my money. I had always liked poultry and heard the Rhode Island Reds were good chickens and good layers so I bought nine hens and a rooster. I raised 19 of my contest chickens—17 pullets and two cockerels."

Extracts from Letters

Extracts from Letters

Two of my cockerels brought \$2.50 each and one of them \$3. I have disposed of all of my surplus stock now.—Naoma Moore, Stafford county.

As I read that you want pictures of the new members, I am going to have someone take one of me with my camera. I am trying to get some new members for my county.—Kathryn Vandeveer, Clark county.

My nine cockerels brought \$24. I think that is doing well. I hope we get some more girls in the poultry club in this county.—Mary Normile, Doniphan county.

I learn to appreciate the Capper Poultry club more and more every day. Did we ever get so many eggs before during the winter? I should say not. Why? Because I take an interest in chickens. Any amount of effort is repaid in gathering the eggs. It is so much fun to get lots of eggs.—Mabel Peterson, leader of McPherson county.

Papa has finished my chicken house and I intend to pen my chickens soon.—Laree Rolph, new member of Cloud county.

As my pullets start laying I put leg bands on them and put the number of the bands in my book. In that way I can tell which are the best layers.—Ollie Osborn, leader of Johnson county.

Evelyn Starkey, my nearest girl neighbor, whom I asked to be a member of the Capper Poultry Club, has decided to join. I am going to try to get some others because I want this county to have a complete membership.—Marie Houghton, Greenwood county. I am still trying to get new members. Dorothy Myers has promised to join and I hope to send another name in before long.—Bessie Seil, leader of Wilson county.

I am sending my application and hope the will reach you in time so I can be a poultry club member. I will have as much pep and energy as possible and will do all I can to make Johnson county one of the leading counties of the state. Two poultry club girls live just a mile from me and the county leader, Oilie Osborn, leves about three miles from my home. We will all work and boost together.—Myrtle Buckingham, Johnson county.

ready for the hen and her brood.

"Put a deep litter of chaff in the box: place the hen and her chicks in, lay soon.—Alice Presnall, Sheridan county.

"Well, I suppose you want to borrow my 'Better Farming' again





The Garden is Half the Living—But not unless right kind of a garden.—And you can't raise a good garden without good seeds to start with.—Iowa grown seeds are the best in the world and are the kind for you to plant, and Field's is the place to get them.

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The Capper Poultry Club

Bertha G. Schmidt, Secretary, Capper Building, Topeka, Kan.

I hereby make application for selection as one of the ten representa-

Poultry Club Contest. I will try to secure the required recommendations and if chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read articles concerning poultry club work in the Farmers Mail and Breeze and will make every possible effort to acquire information about breeding, care and feeding of poultry.

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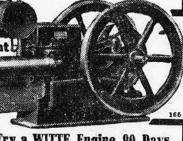
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WHEN WRITING ADVERTISERS MENTION FARMERS MAIL AND BREEZE

Money from Dairying

Keep the Dairy Cows

BY FRANK M. CHASE

Dairymen have a more serious problem in producing dairy products at a profit today than ever before. The doubling of dairy feed prices is accompanied by no similar increase in the prices of dairy products. "During such a crisis as the present," explains Prof. O. E. Reed of the present," explains Prof. O. E. Reed of the Kansas State Agricultural college, "milk, butter, and other dairy products have always been the last to rise in price.

This is due to the fact that these products are perishable and cannot be stored for any length of time. When dairy products are would hesitate before naming

Prices of dairy products are certain to undergo readjustment, and when they again hold a relationship to the cost of peace certainly should not be tolor of production that leaves room for fair profits many dairymen will wish to reestablish their herds. Very likely it will be more costly and difficult to obtain good breeding stock than now. The logical thing for the dairyman to do is to hold on to his cows, as this will be cheaper than restocking later, after sactificing perhaps years of effort in grad. Their meat value is now closer to their rificing perhaps years of effort in grad. Their meat value is now closer to their ing up a herd. The country, moreover, dairy value—in many cases being higher must have dairy products in greater than ever before. Never has a better abundance than ever. In the long run time appeared for dairymen to exchange it will now both in dellars and in an unprofitable, for well-bred dairy animals. it will pay, both in dollars and in pa. unprofitable, for well-bred dairy animals. triotism, to retain the dairy cows now on the farms.

Until the readjustment in prices of dairy products comes most dairymen will find it difficult to bring their herds thru without financial loss. They can do so only by a close study of their business conditions and by putting their opera-tions on a basis as highly efficient as

It will pay to give the matter of feeding particularly close attention. Nutritive values should be considered carefully that buyers may obtain the most value for their money. Feeds are too costly to waste part of the ration because the rest of it does not harmonize with the first part. No farmer wishes to waste costly protein because the carbohydrate content of the ration is insufficient to balance the nitrogenous content; or more likely, waste carbohydrates because of an insufficiency of protein.

For thousands of dairymen feeding for the maximum production will be impos-sible. Their problem will be to feed for the largest return for the feed consumed by their animals. Except in feeding for have two pastures for the cows, one high records this is the better plan anyway. It is just one more of the im-provements in farm methods being brought by the war which it will be profitable to keep after the guns have eased firing.

Homegrown feeds, generally speaking, will admit of the most profit, as these cost the dairymen less than those purchased at he feed store. Dairymen hardly need the suggestion that it is to the interest of their pocketbooks to use the feed produced on their own farms as extensively as possible. Those who have

shaped their farming plans wisely have on hand, except in unusual cases, practically enough such feeds to carry their herds thru the winter. The man who has plenty of corn silage and alfalfa, for instance, can afford to be much less con-cerned over soaring feed prices than his neighbor having neither of these cattlefeeding standbys. Fed alone on these two sterling feeds dairy cows cannot only ucts do increase, however, they are the last products to be reduced in price."

Disposal of the dairy herds at this time would afford but temporary relief.

A cow that cannot give a profitable feeder, we would hesitate before naming another ration that would result in a

A cow that cannot give a profitable account for her feed and care in times

Dairy Profits Still Good

Our small dairy herd consists of nine high grade Shorthorn cows. Four of them have their first calves. These cows get about a gallon of crushed corn and cob twice a day, with corn fodder in the morning and alfalfa hay at night. I consider crushed corn and cob meal a fine feed as there is very little waste when fed this way. Feed is too high to waste now. On any farm with 10 cows enough will soon be saved on the feed bill to pay for a grinder.

Our cream checks from these cows give us an income the year around and besides we have all the milk and butter we care to use. But the cream check is only part of the returns. There are the calves, which grow into money rapidly if cared for right. The separated milk makes a fine feed for the pigs, and then there is the manure with which the dairy farmer can build up his land.

If a man is so situated that he can of wild and the other of tame grass, he will find this a big advantage thru the summer. The kind of tame grass to grow depends on the locality. With the two pastures the cows may be changed from one to the other, thus supplying good pasture most of the summer. The man who has the help and the cows, and the grit to stay with the dairy business, is the one who will make the most from his farm, size considered, one year with another.

Eat no wheat on Wednesday.



The Udder Should be Stretchy and Pliable. Capacity Should Come More from Length and Breadth Than from Depth.

Facts About the Farm Dairy

Figures Prove Dairymen Aren't Getting Rich

BY C. E. DRIVER

butterfat should be heeded by those are grown up strong and vigorous. grinding, cattle bought, rent, express, if if the children of the country are salt, stock food, fees and dues, power be strong, they must have milk. and fuel, equipment purchased, depreneriore, the need of conservation of ciation on buildings, depreciation on the interface of fat," remarked a well known the credits consist of manure, cattle attention results of an extensive example of the figures obtained and the carried out at the Wisconsin in this survey there was represented and and increase in inventory. vital principles so essential to the

Profit When the Farm Boy Helps.

of the young mammal. fats of vegetable or animal origin take the place of the butter fat. a sad fact that few consumers as as the producers realize the injury done to the nation's milk supply to recent controversies about the paid the farmer and charged the mer. Without attempting to the distributing plants with profing and greed, I wish to submit a jurious in defense of the farmer. igures in defense of the farmer. by our large cities to investigate of milk production. Farmers willingly submitted their figures sts, but in all cases these have according to localities and condi-Much time, labor, money and de-ild have been saved the cities had taken advantage of figures proy the farm management departour experiment stations. From partments they could have obresults that were accurate and ally compiled. Such departments on figuring fat in costs for years. have not drawn conclusions from individual farms but have taken by compiled and only correct averused in figuring total costs.

Results of Surveys.

n one of the big producing communi-ties near St. Louis, a survey was made by the Missouri Experiment station to For the benefit of the consumer shall mention a few of the items of that enter into the expense of milk mention a few of the items of court that enter into the expense of milk production. First, we have the feed cost which includes corn, bran, cottonseed meal, linseed meal, gluten meal, hominy feel and various other concentrates. The roughage such as legume hay, non-regume hay, fodders, silage and pasture. The come the various costs such as man labor, horse labor, interest on cattle taxes and insurance on cattle, veter-the taxes and insurance on cattle, veter-the taxes, breeding rees, read estate, small amounts at a time, tho often.

HE ADVICE to eat other cereals taxes and interest real estate insurance, than wheat and other fats than equipment, taxes, interest, bedding, ice, butterfat should be heeded by those hauling milk, cattle died, repairs, feed

ment carried out at the Wisconsin in this survey there was represented a circultural Experiment station it was total production in this vicinity of that butterfat in milk contains nearly 650,000 gallons of milk for the 31 days. After figuring up the total costs and allowing all credits, it was found that the milk in this locality cost found that the milk in this locality cost the farmers an average of 29.1 cents a gallon or \$3.38 for 100 pounds. The average price on the St. Louis market was at that time \$3.20 for 100 pounds. In New York, figures submitted showed that milk could not be produced in that section and sold at a profit for less than \$3.72 a hundred weight. In Pennsylvania it was agreed

weight. In Pennsylvania, it was agreed that a fair price for the producer would be \$3.86 to \$4.66 a hundredweight, de-pending on the quality of milk delivered.

"Camouflage."

Now it may seem queer that many farmers in the dairy business are ap-parently making money while figures show that milk is selling below the cost show that milk is selling below the cost of production. When I asked a well informed, man from a dairy district in Illinois his opinion on this point he said, "I am convinced that a farmer appears to be making a good living at the business because he ordinarily has three or more children which together with himself and wife work in the production of milk. The apparent profit is not a gain from the product but simply wages for the family." If such dairy farmers would allow the wife and family a standard wage the tables would ily a standard wage the tables would readily be changed.

Butterfat prices are lower proportionately than milk prices. The ratio between corn, oats, hay prices on one hand and butterfat on the other hand confront the dairyman as well as the nation with serious circumstances. Before the war, agricultural colleges and ex-periment stations saw the necessity of encouraging more dairying as a national necessity and to restore depleted soils. Now the importance is greater than ever because of the tempting prices for other farm products and the relative low price

of milk.

Many of our leading dailies in the cities have been unfair with the dairy-



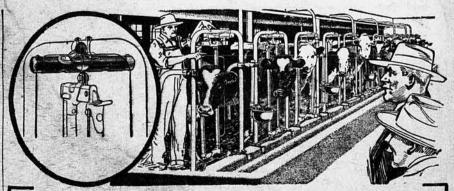
Equipment is Necessary and Expensive.

man on milk prices. They by no means individual farms but have taken did this intentionally, but merely best from every type and every size cause they have received their information. These figures have been access they have been the cause of much brouble by inflaming the hearts of the

- It is to be hoped that the government will soon have complete information regarding the milk situation, and help the patriotic, untiring dairyman to a promising future.

Calves Need Salt

inery fees, breeding ices, real estate, small amounts at a time, the often.



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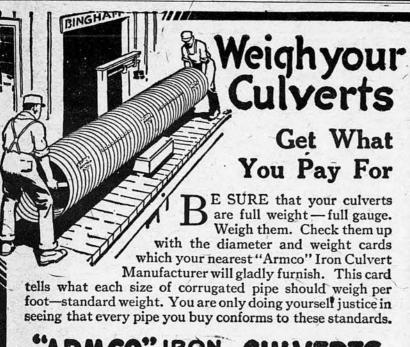
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Transplanting Garden Plants

Transplanting is the process of set-ting plants in their permanent loca-tion. If plants started under glass have been well hardened off, there should be no difficulty in transplant-ing; otherwise, they may die quickly. It is best to allow the soil in the beds to become fairly dry during the three or four days preceding transplanting. A few hours in advance of taking the plants up, they should be watered heavily in order to fill the tissues with water. The plants should be removed with as much soil clinging to the roots as possible. They should be protected from the sun while out of the ground, and care should be taken to get no mud on the leaves. Plants which do not retain much soil on the roots are sometimes "mudded" by immersing their roots in a thick mixture of mud

The best time to transplant is on a cloudy day or in the evening, and be-fore or after a rain. If after a rain, one should wait until the ground becomes mellow. For plants with considerable earth clinging to the roots, the holes are best made with the hand or a trowel. For large plants handled in pots, a spade may be best, and sometimes a furrow is opened with a plow. Small plants with little or no earth on the roots are often transplanted with a dibber. A hole is made in the ground, the plant is inserted to the proper depth, and covering is accom-plished by inserting the dibber to one side of the first hole and pushing the intervening soil to the plant. The second hole is then filled with soil. A dibber works best when the surface has been compacted with the back of a spade, or a plank or a roller. Sweet potatoes, late cabbage, and small tomato plants are often planted with a spade. By this method one person plunges the spade into the ground, with the back of it outward and pulls it slightly toward him. A second person inserts a plant in the hole thus made, the spade is withdrawn and the first man finishes the process by pressing the earth to the plant with

soil, and thoro compacting, to exclude air from the roots. When the soil is dry it is well to cover the roots first with fine earth and then add sufficient water to moisten the soil thoroly. Do not puddle the soil. In all such cases, loose soil should be drawn over the top when the water has disappeared.

To Propagate the Raspberries

BY GEORGE M. DARROW.

Plants of the different varieties of raspberries may be secured from any

cultivation should be buried in moist cessary light. The branches which are soil in late summer. By the following first to appear and which are first to spring, the fips will have rooted and formed good plants. The cane then should be severed, leaving 4 to 8 cutting this crop to cut the plants high inches of cane with the new plant which is to be set in the field.

purple varieties are pinched off when a second crop. they are about 12 inches high, the canes will branch freely and a large number of tips for burying will be se-cured. With many growers the first crop from both black and purple raspberry plantations is a crop of plants. In fact, a large part of the plants disin this way by raspberry gro in turn sell them to nurserymen.

Red raspberries send up new canes from the base of the old canes, as do black and purple varieties. In addition, they send up suckers from underground roots at various distances from the crown of the parent plant. In starting a new plantation the strongest of these suckers are used. If a quantity of plants for setting is needed every year for several years, it may prove desirable to take up all plants in a given part of the field, both the old ones and the suckers. By the folground. When these are dug and the tured.

ground is rich, another stand will grow for the following year. If this practice is followed, the fruiting plantation need not be disturbed by dig. ging up sucker plants. Sometimes growers of the Marlboro and Ruby varieties wait until suckers appear in the spring and set these out. Such plants will be small, but should be very free from insects and diseases.

Raspberries may be propagated also by cuttings of the roots or canes if necessary. In ordinary practice, however, cuttings of either roots or canes are rarely used.

Sweet Clover for Hay

The first season's growth of Sweet clover usually does not get coarse and woody and therefore may be cut when it shows its maximum growth in the fall. In regions where more than one crop may be obtained the first season, the first crop should be cut when the plants have made about a 30-inch

The proper time to cut the first crop the second season will vary considerably in different localities, depending very much upon the rainfall, the temperature, and the fertility of the soil. In no event should the plants be permitted to show flower buds or to become woody. In the semiarid sections of the country Sweet clover does not grow so rapidly as in more humid regions. Neither do the plants grow so rapidly on poor soils as upon fertile soils. In the drier sections the best results usually are obtained by cutting the first crop when the plants have made a growth of 24 to 30 inches. On fertile, well-limed soils in many sections of the country a very rapid growth is made in the spring, and often the plants will not show flower buds until they are about 5 feet high. On such soils it is essential that the first crop be cut when the plants have made no more growth than 30 to 32 inches if hay is desired which is not stemmy and if a second growth is to be expected.

It is not necessary to leave more than an ordinary stubble when cutting the Sweet clover hay crop in the fall of the year of seeding. A stubble 4 No matter what the method used of the year of seeding. A stubble 4 of the secrets of success in transplanting of the year of seeding. A stubble 4 or 5 inches in height, however, will are well-hardened plants, fine, moist serve to hold drifting snow and matter what the method used the year of seeding. A stubble 4 or 5 inches in height, however, will serve to hold drifting snow and matter what the method used of the year of seeding. A stubble 4 or 5 inches in height, however, will serve to hold drifting snow and matter what the method used of the year of seeding. doubtedly will be of some help in protecting the plants from winter injury. While Sweet clover without question is more hardy than Red clover, usually more or less winterkilling occurs, and any protection which may be afforded during cold weather will be of considerable benefit.

While the first crop in the second year comes from the crown buds, the new branches which produce the second crop of the second year come from the buds formed in the axils of the leaves on the lower portions of the raspberries may be secured from any reliable nursery and usually in startsing a new plantation this is done. Many growers having an established when the plants are about 24 inches plantation propagate new plants, the tips of the new canes of black raspberries and of the purple varieties now under and of the purple varieties now under should be busied in moist cessary light. The branches which are enough from the ground to leave on the stubble a sufficient number of If the tips of the canes of black and buds and young branches to produce

Grow Asparagus

Asparagus is one of the earliest and most wholesome vegetables and should be grown in every home garden where In fact, a large part of the plants distributed by nurserymen are produced in this way by raspherer ground the plants distributed by nurserymen are produced best because it retained product asparagus is one of the ter than most other vegetables

The growing of asparagus for market is a profitable industry when the crop is properly cared for and intelli-gently handled. The acreage grown for market might be enlarged considerably, as the demand for asparagus is

increasing. A well-established asparagus bed should produce profitable crops for 15 or 20 years, but in most instances better results are secured when the plantings are renewed every 8 or 10 years.

With young colts moderate exercise lowing year, a solid stand of plants should be begun quite early, but full suitable for setting will have sprung service of no kind should be required up from the pieces of roots left in the until the animal is reasonably well material.

With the Home Makers

Springtime Suits and Dresses

BY STELLA G. NASH

TOMEN may conserve when buying their spring clothes this year the same as they are conserving for fashion has planned it so. are narrower, jackets are and so many dresses are a comion of silk and wool or two kinds that it is possible as never beto make new frocks out of old

this season. Such colors have a depressing effect upon everyone who sees them and so the light, cheery colors were chosen for this time of trouble when both men and women need encouragement and cheer rather than discouragement. Light tans, rose, rich blues, pearl gray, navy blue, black and white checks, and pretty mixtures are among the colors offered.

So much has been said about conserving wool and using silk in its place that it is well to remember this in planning spring clothes. Many silk suits for sports and general wear will be worn. Khaki kool is a very service-able material for a suit of this kind. Amphora crepe, which is similar to

pongee, is also popular. Prunella is one of the newest things in woolens. It comes in plaids or in very broad stripes. The colors are blue combined with tan, black with any deep rich tone, or black with white that softens into silver. Military suits are made of khaki-colored worsted with narrow stripes that form big checks, and the more conservative suits are found in light-weight velour, twill velour, and silver-twist jersey. The last named fabric derives its name

from its weave which gives it a silvery surface. Hindu crepe,

> weight woolen material. The waist has a gathered tucker of Georgette crepe, silk chiffon or something similar. The two-gored skirt is straight at the lower edge and is gathered all around. The wide belt in the front is attractively trimmed with buttons. Sizes 16, 18 and 20

The front of girls' dress 8695 is cut in square outline and trimmed with buttons. The cuffs and chem-isette are of contrasting material. A patent leather belt adds a stylish touch to the dress. Sizes 6, 8, 10, 12 and 14 years.

One of the best models for an everyday dress for the young girl is 8699. The dress closes from neck to hem at the center front and a threepiece skirt is gathered to the waist. Woolen or cotton materials are suitable for this dress. Sizes 6, 8, 10, 12 and 14 years.

Satin, foulard or crepe de chine may be used for misses' or small women's dress 8709. The chemisette may be made of white wash satin trimmed The chemisette may be with small pearl buttons. The four-gored skirt is plaited at the sides and is gathered to the slightly raised waistline. The long sleeves are also trimmed with buttons. Sizes 16, 18 and 20 years.

Satin, serge, gabardine, checks or twills are all good materials for ladies' suit 8696-8708. The coat 8696 has a one-button closing and is cut away from this point to show the skirt. There is a tailored pocket on each side of the front and two buttons at the waistline at the back. Sizes 34, 36, 38, 40 and 42 inches bust measure.

The skirt 8708 has a fitted front gore and the back is gathered to a yoke. Sizes 24, 26, 28, 30 and 32 inches walst measure.

Ladies' two-gored skirt 8692 may be when writing to advertisers mention Mail and Breeze

the coat a youthful effect, may be made of white or contrasting material. The back and side fronts of the waist section are fitted and the waistline is a little above the normal. A peplum is gathered to the waist from each of the side fronts. Buttons form the trimming for this attractive coat. Sizes 16, 18 and 20 years.

The front gore of misses' and small women's skirt 8540 fits smoothly and the back of the skirt is gathered from seam to seam at the slightly raised waistline. A narrow belt finishes the top of the skirt. Sizes 16, 18 and 20

Misses' and small women's dress 8724 may be developed in silk or light

printed or plain, pussy willow taffeta, foulard, silk jersey and silk gingham are smart materials for cool dresses for spring and summer. Fifty per cent cotton and 50 per cent silk is the combination used by manufacturers for spring of the chapter grades of singham some of the cheaper grades of gingham and foulard and this material is much in demand. The cotton in this material gives service and the silk style and

Eight inches from the floor is the smartest length for the new dresses. but 6 inches is more conservative, especially for older women.

Silk crepe, crepe de chine, wash satin, cotton voile or lace may be used for ladies' waist 8715. The front of the waist is gathered to a circular band of lace, fine embroidery or a band to match the material of the waist beaded in dainty colors. The sleeves may be long or short and may be plain or trimmed with small buttons running

Misses' .or small women's coat 8717 may be made of silk or woolen maEverything Tastes Better on the Farm everybody knows a farmer's wife has a "knack" for making things that taste great. Why not add to your reputation by using Calumet Baking Pow-der? There's something about the taste of goodies made with Calu-met that makes folks want to eat 'em all day long. Give more serious thought to your Baking Powder. Try Calumet—follow the directions on the can. New bake-day results will be yours. Calumet meansgreater economy, no loss of materials—big, light, flavory bakings—absolutely pure foods and the same success every bake-day. Try Calumet at once on our money-Received Highest Awards New Cook Book Free— See Slip in Pound Can



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and be well dressed without ding a great deal of money.

of the dresses are embroidered or aided around the tunic or the on of the skirt and on the cuffs, aside from that a collar of white contrasting material and rows of out to the point. Sizes 34, 36, 38, 40 mens sometimes on the waist and and 42 inches bust measure. times on the skirt is all the trim-" necessary.

dull, somber colors are not good terial. The large collar which gives

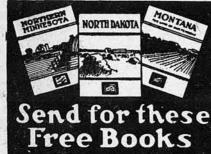


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broadcloth or panama. The front and back gores are in the form of panels. The side gores are gathered between the plaits. There are buttons at each side of the belt for trimming. Sizes 24, 26, 28, 30 and 32 inches waist measure.

The sold panama. The front and soap bubbles? Every child needs plenty of invigorating, inspiring and develop. In the plaits. There are buttons at each side of the belt for trimming. Sizes and to develop the plaits. There are buttons waist and future.

The soap bubbles? Every child needs plenty of invigorating, inspiring and develop. However, as known the delight of blowing soap bubbles? Every child needs plenty of invigorating, inspiring and develop. In the plaits, and the plaits of invigorating, inspiring and develop. In the plaits, and the plaits of invigorating, inspiring and develop. In the plaits of invigorating in the plaits of invigorating in the plaits. There are buttons at each side of the belt for trimming. Sizes are plaintenance in the plaits of invigorating in the plaits of invigorating in the plaits. There are buttons at each side of the belt for trimming. Sizes are plaintenance in the plaintenance in th

These patterns may be obtained from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents each.

A Word from Republic County

Now is the time to plan the garden and order what seeds are needed. We followed our grandmother's rule last year and saved almost enough seed for this year. A good many persons pay for seed in the spring that is wasted by them in the fall. I save the envelopes sent out by elevations. lopes sent out by advertising companies thruout the summer and put the seed saved in the fall in them, writing on the envelope all I wish to remember about the contents.

If a roller is used to break the tops on the onions as soon as they begin to droop in the summer, the onions will be larger when they are ready to pull.

A wrong which gen never be undered.

I brought this recipe for brown bread from Vermont a few years ago. Put in a greased pail and steam in a kettle of water 4 hours 1 cup of yellow granulated cornmeal, 1 cup of graham flour, 1½ cups of sour milk, ½ cup of molasses, salt, and 2 level teaspoons of soda. A Saturday night supper in New England of baked beans and brown England of baked beans and brown bread is the finest meal of the week. Mrs. R. A. Glenn.

Courtland, Kan.

Teach Children Gardening

There is no reason why every home should not have its vegetable garden, and there are many reasons why it and there are many reasons why it nurse and nothing is expected of the should. Any available space however nearest neighbor. This is true in some small can be turned into an area of country places. In every locality, too, small can be turned into an area of interest and of value in a practical way, and the reward is far in excess of the small expense and time expended in its cultivation.

In the home where there are children a garden is invaluable in their instruction and training. The wonders of plant life may be explained and made attractive by the demonstration of the garden. It will be found that children take a great interest in growing things, and will come to have favorites among the different vegetables and varieties.

Many of the little folks like to help

in the tasks, and learn industry, method and garden lore at the same time. The garden may also be a means of directing the energies of a very active child into a healthy and normal channel, says a writer in the Mother's Magazine. One of the great needs in the life of all children is this direction of attention, and the garden can be made a place of romance and wonder by the proper instruction of childish curiosity.

Every man, woman and child should do his or her part by cultivating some kind of a garden. Even the little fence corners might be utilized for growing vines. One of the most beautiful sights we have ever seen was a row of blackberry vines trained against an old rock fence. The grateful odor and bloom of flowers and vegetables about our homes, the sight of scarlet peppers, purple egg-plants, yellow squashes and curly cucumbers, give a joy and satisfaction that only a real home-lover appreciates.

Make Childhood Happy

Every child who comes into the world Send for Free is endowed by the Creator with the inalienable right to a carefree, happy childhood. Many are deprived of this liberal "no money right altogether. These can be helped by better legislation. Others miss half It's the worst place a fellow ever got the joys of childhood because those who into.' The old man listened patiently love them best are absorbed in cares which seem more important. How many children do you know who receive careful attention when they talk? Do you listen, or do you make your own plans meanwhile, contriving to say when the child has finished, "Yes," or "All right?" How much would it detract from your joy of living if every person you met gave like inattention to your enthusiastic comments?

There are few things which leave a and the man was sober. There was thought

There are few things which leave a brighter spot in a child's memory than a children's party, but some mothers imagine themselves too busy to give one. Is there a child in your home who is the state of the work and the man was sober. There was some trouble here, the old man thought as he drew up his horse to inquire. "Oh fio. no trouble,' they too, said, one. Is there a child in your home who but they did hate to leave such a fine

developed in serge, gabardine, cheviot, never has known the delight of blowing

and future.

The birthdays of children should be made red letter days. Has any child in your family missed the joy of finding a little unexpected treasure under his plate at breakfast on his birthday? Your child may be made happy 40 years from now by the memory of that glad day you gave him.

Little attentions do not spoil children.

They make the children more considerate of others. A little girl only 3 years old waited with what patience she could command for her mother to look over the morning's mail. The time seemed long. Finally the child said, "Mother, please excuse me for speaking to you while you are so busy, but I want to know when that hen you set is going to get little birds." This child has been treated with gentle courtesy since the

a wrong which can never be undone.

Mrs. Pearl Chenoweth.

Decatur Co., Kansas.

Do You Know Your Neighbors?

BY MRS. DORA L. THOMPSON Jefferson County

The old time debate that compared the advantages of town and country life used generally to place emphasis on the fact that in the country one could find neighbors. In town, it is sometimes true that people do not know the folks living next door or sometimes across the hallway. If they are ill, they send for the doctor and a nurse and nothing is expected of the country one. there are some persons who "find fault with their neighbors." Many of us will have a chance after March 1 to show/some mover or tenant what kind of neighbors we are.

We never speak of neighbors without thinking of those who lived around us in Oklahoma. We doubt very much if a better brand of good, unadulterated neighborliness can be found anywhere. The Oklahoma people have, as a rule, come there from various states, They haven't been there long enough to have married sons and daughters liv-ing on nearby farms for them to visit. A stranger is welcome; and, like one who joins the ring game, he's taken into the neighborhood's social circle on a par with others. Money is not, as a rule, plentiful and paid laborers are scarce during most of the year. Custom and conditions cause exchange of work. This exchange is a good thing in many ways but especially so in that it keeps neighbors in touch with one another. The one regret we had in leaving that state was that we were leaving such good neighbors,

When we voiced this regret, one of the women told a story that to many may be as old as the story of the man who wanted dough for his sick horse. It was new to us and many, many times since we have thought of it when we have heard people berating their neighbors. The story was something

like this:
"An old man was driving along a country road in the spring when he met a man and his wife with a load of household goods. They were urging their team so much beyond reason that the old man stopped them and inquired what the trouble was.

"'Oh, no trouble,' they replied, but want to get out of this distriwhile they called the country all the bad terms they could apply but when they began to describe the people as the meanest, low-down set of associates and neighbors one could find, he stopped them, started up his horse and called back: 'Drive on, drive on. That's the kind you'll find everywhere

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we thought how true, in part, it was. Circumstances caused the writer and children to be left alone for the first stock and in chopping wood.
One woman said the best gift she

ever received was that brought by a neighbor the day she reached her new home. She was tired. Everything was home. in a mixed-up condition and the children were hungry. The neighbor came in with a kettle of soup, a loaf of bread, some butter and some sauce. It was a regular feast.

"When I'm settling," remarked another, "I like the people who come to see me to wear their housedresses and to be ready to push rods in curtains and help while I'm at work."

It's well to remember that the most lonesome time for a new settler when things are in order and there is no friendly visit to liven up the regular routine. It's possible that the best of friends are to be found in the people now unknown, but who live on a near-

How I Make Rye Bread

I notice by the last issue of the Farmers Mail and Breeze that someone is having trouble making good rye bread. I always have good success with my rye bread so am passing on my recipe. Soften 2 cakes of com-pressed yeast in ½ cup of lukewarm water. Scald 6 cups of milk or 3 cups of milk and 3 of water and when it is lukewarm add 1 tablespoon of salt, 2 tablespoons of molasses or sirup, and 2 tablespoons of shortening, then the yeast and flour. Let rise and cut down to rise again before putting in pans. Let rise 1 hour in the pans and bake 1 hour. This is delicious.

I also make good baking powder bread as follows: Mix together 21/2 cups of wheat flour, 1½ cups of rye flour, 4 teaspoons of baking powder, 1 teaspoon of salt and 1½ cups of nuts, then add 2 cups of sweet milk or milk and water, ¼ cup of sirup or molasses, and 1 beaten egg. Bake in two bread tins. This is excellent for sandwiches with butter or a paste of dates or other dyied fruits. other dried fruits.

Mrs. H. O. Strange.

Model, Colo.

One Way to Cure Nerves

A few years ago I suffered a nervous breakdown and as I was away from home, the attending physician wrote a letter to my father in which he described my condition as neurasthenic. When I returned home I read the letter and began to wonder just what a neurasthenic condition was. The more I learned about it the less admiration I felt, and it seemed to me that I could help myself to get out of it. I was of the nervous type, intense in feeling, and could scent disaster afar off. While not physically timid, I could always see the difficulties in the way of whatever I wished to do and lost poise over small trials. Anxiety for the welfare and health of those I loved sometimes almost unnerved me, and naturally all this reacted upon my physical health.

Severe headaches had made me apprepensive that I was in danger of a serious brain trouble, but when I found this headache termed "neurasthenic in type," I concluded that it was only a sympton after all and that if I could get rid of my arch enemy, neurasthenia, my headache would also vanish.

This afterward proved true.
I called myself Miss Neurasthenia and when headaches threatened I tried to brace myself by exclaiming, now, MissiNeurasthenia, play the woman and forget your nerves." I tried also to keep in good physical condition thru hygienia halifu and simple food. hygienie habits, good and simple food, outdoor exercise, plenty of rest, and medical attention when needed, but I really believe that really believe that my constant remin-

farm and the good, kind people who had lived near them."

"Never mind,' the old man said, as smiling he drove on, 'you'll find the same wherever you go."

This story was fresh in my mind when we came to Jefferson county and thought how true, in part it was

How Do You Cook Rice?

Altho rice has remarkable food value, four days after we came. We shall it has little individual taste, and so always remember the kindness of the takes on the flavor of the dish with men who took turns in tending the which it is combined. This quality stock and in chopping wood.

makes rice an excellent foundation for milk and cheese dishes, or combination with meat, chicken and fish in stews. Rice can be combined with any vegetable, made into a variety of desserts, used to thicken soups or mixed with wheat flour or cornmeal in bread making. Even a spoonful left over can be stirred into bread mixed in chicken stirred into bread, mixed in chicken stuffing or dropped in the soup pot. Left-over rice may be browned in fat was a regular least.

"The kindness I shall always remember," said another, "is the way Mrs. B. for breakfast or made into cakes by sent over word for us to come there for adding an egg, a little milk, flour to thicken and a teaspoon of baking powther of work when I was tired der. These rice cakes are delicious with sirup.

Rice Cornbread.

Beat 3 eggs very light, add 1 pint of milk, 1½ cups of boiled rice, 1½ cups of cornmeal, 2 teaspoons of fat, 1 teaspoon of salt, 1 teaspoon of baking powder. Beat hard and bake in a shallow greased pan in a hot oven.

Rice Stew.

Boil together 1 can of English peas, to taste, I tablespoon of fat, and I cup of sweet milk. Thicken with flour. Serve very hot in a hot dish. Cover the top with grated cheese before sending to the table.

The Slogans of 1918

Keep the flome fires burning brightly,
Do your bit in every way,
Food will win the war—don't waste it,
Save a shovelful a day.

Kansas Industrialist.

A Hen Adopts Four Kittens

whether their children have two feet or four, according to a writer in Our Dumb Animals, who tells about one sitting hen adopting a litter of four kittens. Per-fectly contented and intensely proud of her children, the old hen hovered and cared for the kittens with as much ten-derness as if they had emerged from her

own broken egg shells.

The old hen went to sitting without eggs under a grain bin in a barn near the straw bed where the kittens were born. Seeing and hearing the whining kittens, the hen walked up to the old kittens, the hen walked up to the old cat and offered her services as a trained nurse. Then the old mother cat and hen were often seen hovering the kittens jointly. The real trouble arose when the kittens' eyes were opened and they began to wander about. This pleased the old hen, and just as soon as the mother cat left to go in search of food, the hen would take the kittens off for a stroll. She tearned to hold her brood together with the cluck, cluck, instead of together with the cluck, cluck, instead of a mew, and became so foolishly fond of her four-footed, hairy children that she eventually became bold enough to dare the mother cat to interfere with her adopted family.

She was a good mother, and there would have been no serious objection to her caring for the new children had she been capable of furnishing them with the proper nourishment. She, however, did not neglect this. But she could never understand just why the kittens would not come and remove the fat, juicy worm from her mouth. When she would discover a fine-worm or other dainty morsel, she unselfishly called her kitten children about her, bidding them eat until her voice grew weak, and then, with a much distressed mind, she would either have to eat the morsel herself or leave it on the ground. Poor mother! She loved the kittens with as much passion as if they had been her own. But the children became hungry, and in order to preserve and usefulness.

their lives it was necessary that the hen be put out of reach of the kittens, in Mother hens are not always particular order that their real mother might nourish them.

Dogs Save the Wounded

Some of the dogs used on the battle fields of Europe have been so trained that in traversing a field after a bat-tle they wholly ignore a dead soldier but bark loudly when they discover a wounded one. Returning to their ken-nels for assistance, they lead the way back to the injured man as surgeons

and stretcher bearers follow them.

Not all of the most valuable dogs in the present war are of high degree; thousands are just "plain dogs." It is what they can do, not whence they came, that makes dogs or men worth while.

Mounting guard in a trench at histening post for long hours at a stretch, ignoring danger, alert every moment—this-is what dogs are doing for the armies they serve. Some dogs, revealing by their growling the near-ness of the enemy, have saved whole companies, especially in fogs.

Perhaps when those who do not now

appreciate the value of dogs learn, after the war is over, the part these faithful animals have played in serv-ing humanity in the various countries which have employed them, there will be less demand on the part of these persons for the extermination of the dog.

persons for the extermination of the dog.

Let us not forget the wonderful work Red Cross dogs are doing in rescuing wounded and dying soldiers upon battle fields. When a battle is over they scour the field and bring back cap, musket or any article of wounded men's uniforms they can detach. Thousands of soldiers owe their lives to these brave dogs. lives to these brave dogs.

Many Red Cross dogs have been

the ground. Poor mother! She loved decorated with honors and the pro-the kittens with as much passion as if posal has been made that a permanent they had been her own. But the children monument be raised to their devotion



Win the War By Preparing the Land Sowing the Seed and Producing **Bigger Crops**

Work in Joint Effort the Soil of the U. S. and Canada-Co-operative Farming in Man Power Necessary to Win the Battle for Liberty.

The Food Controllers of United States and Canada are asking for greater food production. Scarcely 100,000,000 bushels of wheat can be sent to the allies overseas before the crop harvest. Upon the efforts of the United States. and Canada rests the burden of supply.

Every Available Tillable Acre Must Contribute; Every Available Farmer and Farm Hand must Assist.

Western Canada has an enormous acreage to be seeded but man power is short, and an appeal to the United States allies is for more men for seeding operations.

Canada's Wheat Production last Year was 225,000,000 Bushels; the demand from Canada alone, for 1918, is 400,000,000 Bushels.

To secure this she must have assistance. She has the land but needs the men. The Government of the United States wants every man who can effectively help to do farm work this year. It wants the land in the United States developed first of course; but it also wants to help Canada. Whenever we find a man we can spare to Canada's fields after ours are supplied, we want to direct him there. Apply to our Employment Service, and we will tell where you can best serve the combined interests.

Western Canada's help will be required not later than April 5th. Wages to competent help, \$50 a month and up, board and lodging.

Those who respond to this appeal will get a warm welcome, good wages, good board, and find comfortable homes. They will get a rate of one cent a mile from Canadian boundary points to destination and return.

For particulars as to routes and places where employment may be had, apply to

U. S. Employment Service, Dept. or Labor



Seed Dept., Topeka, Kan.

Young Kansans at Work

BY JOSEPHINE E. REED

JOHNNY was sound asleep, so he did not know what strange things were taking place. Ordinary people would have seen only a child's white had whate a tangel delivery had been seen only a child's white had the seen only a children between the seen on the seen of the seen on the seen of the seen on the seen of the seen on the seen of the seen of the seen on the seen on t white bed where a tangled-haired boy lay with covers kicked off him. But one blessed with fairy vision would have noticed a tiny—queer object sit-ting on the boy's chubby hand, while other sprites hopped about on his toes and body. By listening one could hear a faint murmur.

"Johnny doesn't treat me right," de-clared the sprite of the foot. "He goes

then he takes croup and his mother doesn't know why."

"Just think of the way he treats me," said the sprite of the hand. "He never will keep me inside the blanker at night and I clared the sprite of the foot. "He goes to the sand pile and pulls off his shoes and stockings and I get so cold and

at night and I nearly freeze. I work for him all day but he never tries to be kind to me. Then he won't wear his mittens and I get all chapped and

"He would be a queer looking boy without me," said the sprite of the face, "and yet he never cares how I look. He won't wash and sometimes I am so ashamed of being dirty I feel like hiding myself. But he does not turquoise, December. care how I feel."

little fellow, who was the sprite of the stomach. "He won't eat anything that is good for him; he just stuffs him-puzzle represents a grammatical term, self with candy and cake and mince Address your answer to the Puzzle pie until I am all in a whirl and I

ple until I am all in a whirl and I don't know whether I am right side ap or dancing a jig on a scenic railway,"
"No wonder I ache so terribly, if that is the way he does," said the sprite of the head, "and he never will go to bed when it is time unless he cries so that I am nearly crazy."
"Unless he leaves botton he will be

"Unless he learns better, he will be a sickly, disagreeable boy," they decided, and then they planned to give him a lesson. After he woke up, they began working out their plan. When dinner was over he thought of the sand pile, but when he tried to go to the door he discovered his feet would not move. He was surprised; they never had acted that way before. He stooped down-to take off his shoes to see what was the matter, but his fingers would not unbutton them. Then his backbone concluded to help package of postcards for each of the teach this strange lesson and would five boys and girls sending the most not hold him up, so Johnny fell limp neatly written correct answers. on the floor.

surprised as they.

"There is just one reason," he said Kan.
at last, "and that is he does not take
care of them. No horse can work for Governor Recognizes Youths' Part us unless we take care of him, and Johnny can't freeze his hands and feet and abuse his stomach if he expects them to do good work."

This was something Johnny never

had thought of and as he lay there unable to move, he made up his mind if he ever became all right again he would certainly take care of the body that worked so hard for him.

The sprite of the head knew what he was thinking and told the other the task the nation has take sprites. As they were really very kind safeguard future generations. and did not wish to punish him more than necessary, his backbone at once straightened out and Johnny could sit up; his feet carried him over to his mother; his arms went around her neck, and his lips said:

"Mother dear. I'm going to take better care of myself so I won't get sick any more and worry you."

You may be sure mother was glad and when Johnny went to the bath-room and washed his face, the sprites all looked at each other and winked.

The Amethyst Ring

How many of you, I wonder, know the gem that is especially appropriate to the month of your birth. There is one young reader of the Farmers Mail hare in the soup?

How the Sprites Went on a Strike and Breeze who will never forget the name of her birth stone, for when she was 5 years old she received as a birthday gift a beautiful little book in which was inscribed a still more beau-tiful poem, composed by the giver. The recipient of the book was Gretchen Annabelle Metzke of Topeka, Kan. Annabelle Metzke of Lopeka, Kan, She learned to recite the poem when she was 5 years old. That was 8 years ago and she still treasures the book in which it is written as one of her most valuable gifts. .

Here is the poem Under the stem of a butteroup, That grew by a garden wall, A little fairy made her home, Hid in the grasses tall.

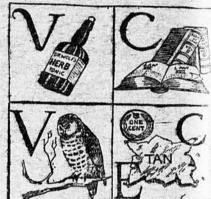
One day there came a fairy prince, Who brought her an amethyst ring. And they journeyed away to his palace hall On the tip of a humming bird's wing.

The writer of the verses is C. S. Ross-of San Francisco. He has written many poems for publication.

As generally chosen, the birth stones for the 12 months of the year are: garnet, January; amethyst, February; bloodstone, March; diamond, April; emerald, May; pearl, June; ruby, July; sardonyx, August; sapphire, September; opal, October; topaz, November;

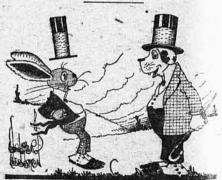
"I suffer most of all," said a brown Pictures Show Terms of Grammar

Each of the four pictures in this Address your answer to the Puzzle Editor of the Farmers Mail and Breeze, Topeka, Kan. There will be a



When mother came in she was ter-ribly alarmed. "What is the matter 2, supflower; 3, four-o'-clock; 4, tulips with my boy?" she asked, but even his Prize winners are John Vandeweide. lips and tongue had gone on a strike Atchison, Kan.; Vera Gildhouse, Falland refused to answer. His parents view, Kan.; Nellie Slyter, Fontants sent for the doctor who was as much Kan.; Ruth Brown, Bloomington. Kan.; Josephine Yeoman, Lawrence

Recognition of the Junior Red Cross as the official organization for war lief work in the Kansas schools given in a proclamation issued by G ernor Capper. The action is in line withat requested of the governors of five states in the southwestern divis and will unify the efforts of 300,000 Kansas school children in war religi work, making them a vital factor the task the nation has taken up



Mr. Papp: Say, could you direct to some restaurant where they serve



A Seven Passenger Six That You Can Afford

THE GOLD STANDARD OF VALUES

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Salient Features of the ReoSix

50 HORSE POWER, Six-cylinder motor cast in threes.

REO DESIGNED, Reo madethroughout.

126 INCH Wheel Base.

CANTILEVER rear springs — Semi-elliptic front springs.

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BOTH BRAKES operated by foot levers and provided with ratchet locks, Extra large and both operating on rear hubs.

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PERFECT LUBRICATION at every moving point.

REO RADIATOR—Reo designed, Reo made.

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REO STEERING GEAR—exclusively Reo. No back-lash—self-adjusting for wear. Positive.

50 PER CENT OVERSIZE in all vital parts — crank-shaft, axles, driving shafts, gears, frame, wheels, tires.

NET RESULT—Reo upkeep equalled by no other 7-passenger car. WE ARE NOT THINKING of the price
—for that isn't the primary consideration in the selection of a car.

YOU KNOW YOUR OWN NEEDS whether a five passenger car is sufficient; or if you really need, at times, room for

AND YOU KNOW better than anyone else can teil you, what your price limit is.

AND SURELY AT ITS PRICE this Reo Six is the greatest value obtainable in a car of established reputation.

AND REO REPUTATION is second to

WHEN WE SAY "Here is a seven-passenger Six that you can afford," we are thinking of the same item that you, an experienced motorist, are considering—

NAMELY—UPKEEP. That is the first thing to consider in the selection of an automobile.

CERTAINLY YOU CAN afford to own a seven-passenger car—and you can treat yourself to the luxury of a sweet-running, silent Six—if you can feel that not only in first cost but also in cost of upkeep it will be well within your means and accord with your ideas.

ASK ANY REO SIX OWNER to tell you of the upkeep cost of his Six—and the longer he has owned and the farther he has driven his Reo, the better will his answer sound.

HE WILL TELL YOU that, having compared notes with friends who own and drive other makes of cars—fours as well as sixes—of the same passenger capacity, he has never found one that compared with his Reo Six in low cost of upkeep.

AND HE'LL TELL YOU, too, that he has yet to find even a five-passenger carfour or six—the operation, repairs, replacements and general upkeep cost of which proved as low as his Reo Six—except one the five-passenger Reo.

NATURALLY a five passenger car ought to be cheaper to maintain than one of seven-passenger capacity—but most are not, when you look up the figures.

REO DEALERS TELL US that their records for the past three years show that Reo Six owners on the average have paid less than eight dollars per car per year for replacement parts.

JUST READ THAT AGAIN—with thousands of Reo Sixes running in all parts of the country, over all kinds of roads and handled by all kinds of skilled and unskilled drivers; most of them owner driven and owner cared for (or neglected)—

THE AVERAGE COST per car, per year, for replacement parts was less than eight dollars!

FRANKLY WE DON'T believe that record can be equalled by any other seven-passenger car on earth.

AND WE MAY ADD that the records on the five-passenger Reo show less than seven dollars per car.

THE SAME QUALITY—the same sound engineering; the same ripe experience; the same attention to little details and the same construction, inspection and testing of every car enter into the making of all Reo models.

COST OF UPKEEP is always uppermost in the minds of Reo engineers, when designing and when specifying materials. And since the same desire is uppermost in the minds of the most experienced buyers—we meet on a common ground.

WE ARE FRANK TO ADMIT that to a large extent the phenomenally low cost of upkeep of Reos is due to the fact that Reo buyers are, as a class, better informed and more careful in their selection than the average.

REOS DO NOT APPEAL to those who look only to superficials—Reos are built for connoisseurs and Reo owners are mostly men of ripe experience in motoring. They, therefore, combine prudence with intelligence in their choosing of an

automobile.

IF YOU ARE ONE of that kind, we say to you, here is a magnificent, luxurious, seven-passenger six that, both in first cost and cost of upkeep, you can well afford to own.

REO EFFICIENCY sets the price lower—Reo quality guarantees low upkeep.

Reo Motor Car Company, Lansing, Mich.

PRICE IS F. O. B. LANSING AND SUBJECT TO INCREASE WITHOUT NOTICE



YOU TAKE IN BUYING AN We Give You 30 Days' Trial 10-Year Guarantee Why take chances with untried machines when for only \$12.50 we guarantee to deliver safely, all freight charges paid (East of Rockies), Both of these big, reliable machines fully equipped, set up, ready for use. Why not own an Ironclad outfit? Order direct from this advertisement and we will gladly give your 50 Money Back If Net Satisfied 150 EGG INCUBATOR Ironclads are not covered with cheap, thin metal and painted cheap, thin metal and painted like some do, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't class this galvanized iron covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery, hot water top heat, copper tanks and boilers, self-regulator, up ready for use, and many other special advantages its TODAY or order direct from this advertisement. cos thermometer, glass in door, set up ready y explained in FREE Catalog. Write TODA IRONCLAD INCUBATOR COMPANY, Box111 Racine, Wis.

WHY CHICKS DIE IN THE SHELL"



Gold Plated Flag Pin Free

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her Arthur Capper of Topeke, Kanser Beatha G. Schmidt, Secretary

First Annual Offering of PUREBRED POULTRY PLYMOUTH ROCKS

Barred Rocks 41 10
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B. 1, Welda, Kan BUTTERCUPS......4 cockerels, 2 pullets Helen Hosford, R. 1, Pittsburg, Kan.

All the cockerels and pullets offered for sale are purebreds selected from the con-test flocks.

For free catalog, write to the secretary of the breed club representing the variety in which you are interested.

After receiving catalog, write to the sirl nearest you who has the variety you desire. Prices will be quoted on application and prompt shipment will be made. All members live in Kansas.

Capper Poultry Club
Fertha G. Schmidt, Sec'y, Capper Bidg., Topeka, Kan.

MANKATO SPECIAL Biggest Hatches Strongest Chicks

That's what you will get with my Hatching Outfit—and I can prove it.

The whole story is in my big catalog, "Hatching Facts", sent Free. It tells how money is mader aising poultry. Get this Book and you'll want to start one of my Guaranteed Hatching Outfits making money for you. It's good pa-

money for you. It's good pa-triotism and good business to raise poultry this year, and

895 140-Egg Champion **Belle City Incubator**

Freight Prepaid East of Rockies-allowed towards Express and to points beyond.—I

points beyond.—I ship quick from Buffalo, Minneapolis, KansasCityor Racine. Used by Uncle Sam and Agr T Colleges. With this Guaranteed Hatching Outside Sam and My Colleges. With this Guaranteed Hatching Outside Sam and My Colleges. With this Guaranteed Hatching Outside Sam and My Colleges. With the Colleges was to be said my Colleges. With the Colleges was to be said was to be s

Special Offers Provide Ways for You

Save time—Order New, or write today for my Free Cat-alog, "Matching Facta"—It tells all. Jim Rohan, Pres. BelleCity incubator Co., Box 21 Racine, Wis.

Egg-o-hatch applied to egg during incubaem the chick and weakens the shell. It supplies free oxygemshooths carbon diaxide and makes brittle and porous the animal matter of the shell. The biggest thing ever offered to
poultrymen. 50 test hutches shoes a transpoor of 95 per cent for
Egg-o-hatch eggs and 81 per cent for ever ut-ented, right
in same machine. Full size package, for 600 eggs, 50 cent
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(5 books) free or send use cents for mailured in Foulity Labrary
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SSS FOR YOU SSS

Write J. H. DOUSMAN

Tells Why Chicks Die

E. J. Reefer, poultry expert of 458 Reefer Bldg., Kansas City, Mo., is giving away free a new book which tells of a simple home solution that raises 98 per cent of all chicks hatched and cures white diarrhoea over night. All poultry raisers should write for this valuable free book .- Advertisement.

To Win With Poultry

Breeding for Eggs

BY ALBERT G. REQUA

I began breeding the Rose Comb Rhode Island Reds for egg production 12 years ago. I have succeeded in breeding four generations that have reproduced their egg laying qualities. In 1914 "Trilby the 1st" laid 254 eggs. Her ancestors on both sides had been Her ancestors on both sides had been in the 200 egg class for four years, "Trilby the 2nd," a daughter of "Trilby the 1st," laid 266 eggs in 1915. Her daughter, "Trilby the 3rd," laid 272 eggs in 1916, and her daughter, "Trilby the 4th" or "Lady in Red," did her bet by the strainer. her bit in winning the war by laying 288 eggs in 1917. Five full sisters of "Trilby the 4th," with herself, laid 262 eggs as an average during 1917, which demonstrates that these birds have the laying qualities in the blood.
You ask how it was done? That is

a long story, but will say, first, by get-

selves. Send to some breeder who is breeding for eggs and buy a male to mate with your pullets, then hatch from eggs from that pen. It might be well to buy a sit lng or two of eggs from some other breeder who has an egg-laying strain. Keep this up every year, and always be careful about the shape of your pullets. They must have long, broad backs, which means length and depth of body, for therein lies the egg capacity. Note the shape of "Trilby the 4th." She is almost a perfect specimen of a laying type. fect specimen of a laying type.

Keep away from mating related birds as much as possible for in-breeding or line-breeding, in my experience, weakens the vitality. The hen that lays 250 eggs in a year must have great vitality. While in-breeding or line-breeding is all right in breeding for show highs if general type for the control of the for show birds, if carried too far it will weaken the whole flock.

The Illustrations herewith are free



Trilby the 2nd.

ting eggs from birds supposed to have egg records, then by trap-nesting and buying birds from a laying strain. After four years I got some of my birds in the 200 egg class, then I began keeping a register and pedigreeing all my birds so I could know just what they were doing and how they were

Persons came to my yards to see my birds and would say, "We hear you have some great layers. What in the world do you feed them to make them

What would you think if you had a registered Holstein cow with a high milk record if a man should ask you, "What do you feed her to make her give so much milk?"

I am frank to say that feed and care go a long way toward egg production, but am sure that breeding has lots to do with it. I feel that I have built up a strain of layers that will reproduce their laying qualities.

I used to live on a farm and did just what many farmers are doing today with the chickens; I kept five or six of the best and largest cockerels and turned them all loose with the hens. then when the eggs were gathered, I selected the largest eggs for hatching. This system will never get you anywhere. Select seven or eight of your best shaped pullets with long, broad backs, and put them in a pen by them-



Trilby the 4th.

photographs taken when the pullets were each 9 months old and in laying condition.

N. L. Harris to Arizona

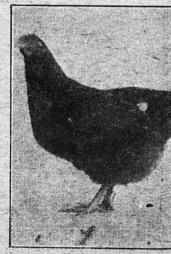
N. L. Harris, former superintendent of the Kansas State Agricultural college poultry farm, has resigned to accept a position as poultry specialist in the extension division of the Arizona Agricultural college at Tueson. Mr. Harris was very efficient in his work in Kansas, and has a wide acquaintance among the farmers and pouliry breeders of the state. Harold Amos, who assisted Mr. Harris several months, is the new superintendent of the college poultry farm.

New Incubator—Free

The Wight Co., D 17, Lamoni, Iowa, wants to give every reader of this paper a new \$5.00 incubator for just a few minutes work at home. Write for special offer .- Adv.

The colt's system requires a considerable amount of bone and muscle building material; and this can be had only by feeding nitrogenous feeds such as only, bran, a little oil meal and where obtain-able clover hay.

When the cows have been long in milk the churning becomes more difficult.



Trilby the 1st.



Trilby the 3rd.

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A Question of Breeding

Egg production is largely a question of breeding, according to Harold H. Amos, superintendent of the Kansas State Agricultural college pouitry farm. Eggs from winter layers should

be selected for hatching purposes.

Under natural conditions no eggs
were laid in the winter months. Artificial methods have been employed un-til by proper selection and manage-ment a large number of eggs can be had during the coldest months of the

Feeding and care have a great deal feeding and care nave a great deal to do with winter egg production. Of greater importance, however, are selection and breeding. It has been determined by careful observation that, generally speaking, the hens that make the best records during the fall and winter months are the best all year layers

All hens will lay fairly well in March, April, and May. The poor layers seldom, if ever, lay during the months when prices are the highest. They are not economical producers and should not be kept as a breeding stock.

Where possible, breeding pens should be maintained during the hatching season. All poor layers, undeveloped pullets, and otherwise imperfect birds should be discarded prior to the breeding season if satisfactory

results are to be expected. Early hatched chicks are the most profitable both for meat and for egg production. They are the most easily raised because while they are young they are not subjected to the cloudy, rainy weather which comes later in the They usually are more vigorous. Later chicks have a higher rate of mortality because of the extremely hot weather and the presence of a

greater number of parasites.
General purpose breeds should be hatched not later than the last of April if the pullets are to be developed for egg production the following fall and winter. The young cockerels can be disposed of as broilers at much better prices than those of later hatches.

With strictly egg breeds it is not advisable to hatch before the middle of March as the hens will often begin to lay early and go into molt about the first of January. In the present abnormal times it may prove profitable to batch as late as June 15, but chicks hatched then cannot be kept as profitable egg producers. They should be marketed in the late fall.

Hatch the Chickens Early

MRS. LIZZIE WEBSTER

I raise quite a flock of chickens to sell every year. I used to set the eggs under hens. Five years ago I bought an incubator and I have had success with it. Before I use it in the spring and after every hatch I wash the inside of the incubator with hot water in which 2 tablespoons of carbolic acid have been dissolved, and let it dry and air out before setting. I get the machine all ready, and fill and light the lamp at least 24

hours before I am ready to set the eggs. before I set them. Then in the morning before I set them. Then in the morning I wash all the eggs, one at a time, in a pan of warm water laying them on a blanket to dry. When they get dry if the machine is heated up to 103 and seems to be running all right I mark the eggs and fill the trays. I begin turning the eggs when set 24 hours and turn them twice a day until the sixteenth turn them twice a day until the sixteenth day when I stop turning them. I air the eggs the first week while I turn them. The second week I air them from 15 to 20 minutes every time I turn them.
The third week I air them 30 minutes twice a day until I hear the shells pipning white cloth to fit the nursery floor and white cloth to fit the nursery floor and spread the cloth smoothly over the bottom of the machine, fitting it up closely around the sides. This makes the floor soft for the little chickens to walk around on, and when the hatch is over I roll the cloth up and take out of the machine and wash or burn it and the machine is not difficult to clean.

When I hear the first chicken peeping

When I hear the first chicken peeping in the shell I wring a piece of flannel out of warm water and lay it over the eggs, leaving it there until the hatch is over. This began the eggs from getting This keeps the eggs from getting too hot and drying out, and keeps the chickens from dying in the shells. Whenever I see some hatched out of the shells

the nursery and throw out the shells. laid January 24, 1917, on which date the on good tender grass and clover. Since I use the wet cloth over the eggs year's record was started. During the I do not have any more empired chickens.

I do not feed anything for 36 hours, then
I feed sparingly of hard boiled eggs,
rolled oats, a little millet seed, water
and sour milk in small vessels that the chicks cannot get into. I also sprinkle fine sand around for them to pick up. I bran at noon and corn at night. Green lowed to be exposed to the cold rains raise my young chickens in small houses grass and weeds were fed during the until they are all feathered out. They fenced in so the old ones cannot get to spring and summer. Being yarded, the chill very easily. Then they become fenced in so the old ones cannot get to them. After they are 2 weeks old I feed them all they want, keeping the millet seed where they can run to it all twice a day until I hear the shells pipping. I quit airing them and leave them
in the incubator. The third week I
sprinkle the eggs sparingly with warm
water twice a day. I cut pieces of old
where twice a day. I cut pieces of old
Sprad the twice and a day until I hear the shells pipthe time, also sand, sour milk and water.

I always keep a sack of chicken feathers according to the time, also sand, sour milk and water.

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I always keep a sack of chicken feathers according to the time, als

the bottom well with feathers, put in the chickens, cover them well with the rest of the feathers, put & cloth over the t p of the tub and go about my work. When they get thoroly dry I take them out and let them go.

A Flock Record

Showing what a dozen laying hens will do in supplying a family with fresh eggs at a low price, L. H. Replogh of

year 1,088 eggs were produced at a cost of about 17 cents a dozen. The eggs were worth \$24.94 at market prices in Meriden, or \$9.52 more than it cost to produce them. The feed consisted of soaked oats in the morning, wheat or pullets did not get anything to eat except the feed that was provided by the owner. These pullets did not make a

Raising Geese

The first year I raised geese I bought 17 eggs, which cost me \$1.15. from which I hatched 10 goslings, and I raised every one of them. I sprinkled the eggs when they had been set on two weeks, the third week about twice,

and the last week about every day.

When the little goslings were hatched, I fed them bread scraps, Meriden, Kan., reports the result of 12 soaked in water or milk, and clover unSingle Comb White Leghorns for the til they were about a week or so old. year ending January 24, 1918. The 12 After the first week. I began feeding pullets were kept in a 6 by 14 foot them a mash, two-thirds bran and onehouse, well ventilated and lighted, and third shorts mixed. After they are —Advertisement.

the time. They must not go to the stream where the turtles will catch them. I raised the little goslings by hand, as they are very awkward and clumsy and are mashed easily.

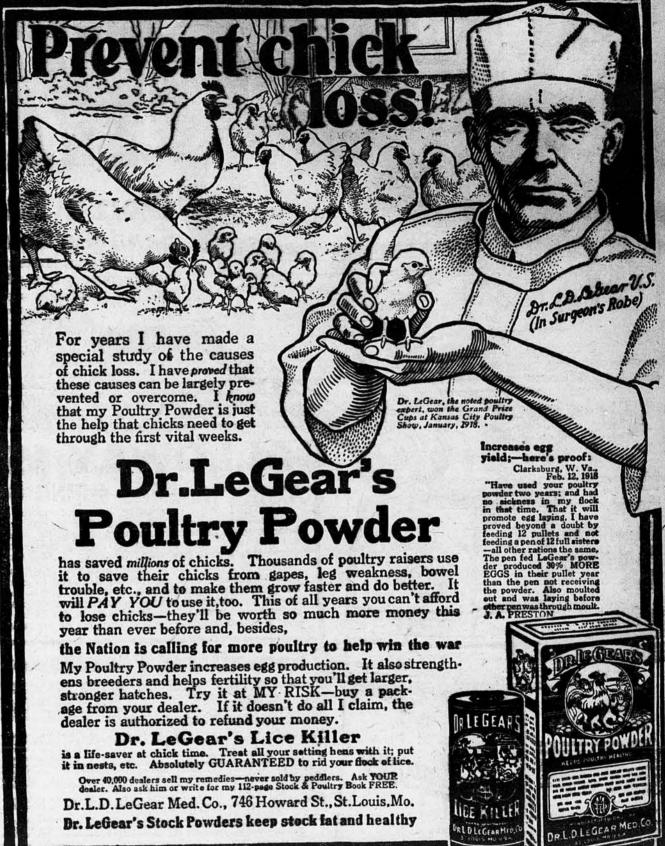
The young geese must not be alstupid and die.

I picked my 10 geese three times and as do those from old geese that are fully matured.

Miss Nina R. Anderson. R. 18. Richland, Kan.

Will Save Your Chicks

Any reader of this paper who writes P. J. Kelly, the Poultryman, at 63 N. 2nd St., Minneapolis, Minn., will receive a Free Copy of his new booklet, "White Diarrhoea in Baby Chicks." It tells how to prevent, remedy and save the whole butch. It's free and this



Guarantee With Every

Sale

Read

the Proof!

"I like your separator just fine. I think it is as good as they can be. If I were to buy another separator, I would not want any but a Galloway. They can't be beat."—Oscar A. Vick, Calmar, Iowa.

"Please send us your late catalog. We have bought several articles of you already, including a Galloway cream separator, and it has proven all that is claimed for it. Therefore we know that the name 'Galloway' stands for fair dealing, and we want your catalog."—DeWitt Bros., Cuchara Junction, Colo.

"I had some of the milk skimmed by our New Gallowsy Sanitary Cream Separator tested by our State Farm Bureau man, and he found only .01 of 1 per cent butter -fat in the skim milk."—C. R. McCombs, New Cockle Ds. Better.

Castle, Pa. Rou



LISTEN! When I started in the manufacturing business in a small way in Waterloo over a dozen years ago selling a small article—the harrow cart—and later on added the manure spreader, some of the wise ones said: "Galloway will not last long." But we just kept sawing wood, and giving the people bigger values than anyone else, earnestly trying to make our products better.

Then we added a line of Gasoline Fermines, then same the Gallower Sonitons.

Then we added a line of Gasoline Engines; then came the Galloway Sanitary Cream Separator; and later on the Galloway Efficiency Tractor. Our business has grown and expanded year after year, and in spite of conditions has moved onward and upward in volume—winning us thousands upon thousands of satisfied customers everywhere—in every state in the Union and in Canada. This only goes to prove conclusively that our plan of manufacturing and selling direct to

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Sensational Features of the New Galloway

First: Every Modern Practical Separator Improvement Known Embodied in This Machine. The New plate. It is as good in the parts you cannot see as in the ones you can see. The same expert attention is given to fitting a bushing as to balancing a bowl. These and many other equally important features have made it the choice of wise, careful, conservative and discriminating separator buyers who wanted the best—and got it. The New Galloway Sanitary Cream Separator has won its place at the front by force of its merit, and in the face of the strongest kind of competition.

sand in the face of the strongest kind of competition.

Second: In simplicity of design it has no equal. Only few working parts, a main drive gear and pinion, and how my help to bowl spindle, upper and lower bowl-spindle bearings, handle and clutch case and bowl—these are the few parts held in perfect alignment by the gear case casting.

Third: It is not humanly possible to build a cream separator that is mechanically more perfect—low mies of but expect bowl; discs entirely separate from each other, no raw, sharp edges to break up the glob-long; a helical at, a simple, self-centering neck bearing; crank shaft of high-carbon steel in bearings 2½ in. long; a helical serior of section of the worm wheel, lesser friction; large worm wheel with phosphor bronze wearing surface; both sear shafts and bowl spindle bearings supported by one case, perfect alignment; automatic oil supply, all working parts in an oil spray.

Fourth: This New 1918 Galloway Sanitary Separator could not be built from better materials nor by equipped with every new and up to date machine.

Fifth: The bowl is the secret of the ekimming efficiency of the New Galloway Sanitary Model. Skim milk discs throw the heavier skim milk to the outside of the bowl and squeeze the butter-fat toward the center.

BUY SPREADERS MY NEWEST LOW DOWN NO. 8 MODEL NOW

ne really advanced spreader of the year. It has embodied all the prime features of the best spreaders. Every new and practical spreader improvement is now on the new Galloway No. 8 Model. It is low down. Easy to load. Front trucks cut under. You can hitch close to load. It sperfect construction makes it light draft. Two horses can handle it easily. V. Rako Before the next increase in price! SAVE MONEY! We ship from factories or from warehouses in Chicago, Kansas City, St. Paul or Council Bluffs to save you freight

WM. GALLOWAY, WM. GALLOWAY

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nction of which is the accomplishment of years of experience and the -a separator that invites comparison—that has built into it all the parator that is so good mechanically that it is positively sensational!

yn away. These are times when you must get the best ade. This is no time to take chances in buying. If you time, effort and cream by the old-fashioned gravity methods yor by using an out-of-date machine—stop it, and get a y Sanitary model. It will actually pay for itself the first extra amount of butter-fat it will save for you. If you will save son are to that wester green dispose of it and old-style separator that wastes cream, dispose of it, and alloway Sanitary. It will stop the loss and save you money twice-a-day, every-day-in-the-year skimming, there is no tean beat the New Galloway Sanitary model. Because of a skimming efficiency, it will make your model. t can beat the New Galloway Sanitary model. Because of a skimming efficiency, it will make you money every day it, in both prosperous and economical times.

Another thing: Conditions now on raw materials, deliveries, and prices were never so uncertain. If ever there was a time to plan ahead prices were never so uncertain. If ever there was a time to plan ahead and get your orders in early, this is the year! In our manufacturing business we are now contracting for materials to be delivered next fall! We have to do it. We buy early to protect ourselves, and we advise you to buy early and protect yourself. A little careful, early planning has saved many a man real money, and this is the year when you will save more than ever before by buying early!

And don't forget that when you consider the present high prices of live stock, corn and other farm produce, compared to the present low price of my New Sanitary Model Separator, you are buying it at a figure that is actually lower than ever!

enuous times on different occasions to fill the tremendous demands made upon us, organization two features that stand out hipments, and our new Service Department, at if you would wire us for something today y we get your wire. This has only been For example: Today we have in our ware-eorders come in, over 5,000 cream separators. we manufactured cream separators or other sperience has accomplished. From present

indications there is going to be the biggest demand in our history for Galloway goods this spring, and my personal advice to you is that if you are going to need anything in our line to write us early, because there are two big things to guard against—additional raise in price, and inability to deliver the goods promptly a little later on.

We have made special arrangements this year so that you can order now a Galloway Separator, Manure Spreader or engine, and pay for it after next harvest. Write today for our special proposition. If you have never bought from Galloway there never was a better time to get acquainted than right now. Come to Waterloo and see our factories as pictured in the lower left hand corner. You will be welcome. You will be taken care of. Your visit will be appreciated by our men and by me personally. Wm. Galloway

itary Separator

the skim milk and the butter-fat apart. charged. All the milk gets the full skimdise gets its full share to skim. The top of at the bottom. These are the secrets of its eventher or feeding condition of your herd, to big, roomy, one-piece supply can without, making it positively impossible for sepatik is held, so that both cream and milk are it touches the floor at the points necessary under. The women folks like the New

asy to operate because of a number of new it is a low speed type, with only 50 revolu-he crank shaft is just high enough so that is advantage with the least strain on your of the casy running. The cream pall shelf they can be easily raised and lowered. This as trial in your own dairy, or 180 milkings, operates.

lary creates, to skim up to its rated capacity. We have not zake the price seem lower. If you buy a New keep it. If we claim the New Sanitary will do the 90 days' trial on which we sell it.

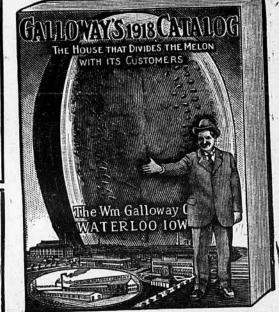
BUY NOW!—Pay Next Fall After Harvest!

Get your separator now when you need it. Begin the big cream saving it will make at once! Don't delay getting the implements you need because of money matters, for I have arranged my easy buying plans on purpose to accommodate responsible farmers.

On my principal manufactured lines, Separators, Engines and Spreaders, off my principal manufactured lines, separators, Engines and Spreaders, I offer your choice of five easy buying plans and terms, one of which will surely suit you. You can buy for Cash, Bank Deposit, Part Cash and Part Note, All Note, and Installment without interest. So buy now and get your Galloway Separator, Engine or Spreader while you need it and pay for it later after you sell your crops or with the savings these implements earn for you. Some farmers may not be worth as much as others in deliver and contract if they are repressible the around of their world. in dollars and cents, yet if they are responsible the amount of their wealth does not make much difference. It is integrity that counts. Good credit is capital. Ask about these buying plans now.







47 Galloway Station, WATERLOO, IOWA FARM IMPLEMENT MANUFACTURING SPECIALISTS!

den \$1.00

Made HERE ARE THE SEEDS Included in This Great Dollar War Assortment One Box Sweet Corn (Golden Bantam) One Box Beans (Golden Wax) One Box Fean (Excelsior)

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teans (Brosenhagen Market)
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WM. GALLOWAY, President	
WM. GALLOWAY COMPANY,	47 Galloway Station, Waterloo, Iowa
Sand me the Spring Edition of vo	ur 1918 Book.

MAIL THIS COUPON TO-DAY!

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If you want the	
1918 Seed Book	1
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Name	
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R. F. D	State







arch 9,

FARM ANSWERS

Sorghum for Sirup.

Kindly tell me how to grow sorghum for R. W. K.

In reply to your recent inquiry, I am requesting that our builetin on "Growing Sorghums in Kansas," which has just been received from the printer, be sent you. You will find in that a page discussing varieties of sorghum for sirup. This discussion will apply to your conditions.

K. S. A. C.

S. C. SALMON.

Caring for a Lamb.

I wish you would tell me how to handle my lambs this spring to the best advantage.

Rush Co.

D. O. R.

about 2 tablespoonfuls every 2 or 3 hours. The milk should be heated to about 90 degrees Fahrenheit in a bottle placed in warm water. In order to give the milk at proper temperature, the bottle and the water should be in a pail which can be taken to the place where the lamb is to be fed.

A lamb too weak to stand to nurse, back the ewe into a corner and hold the lamb to the teat and increase its anxiety to feed by patting it on the rump. If it refuses to nurse, draw some milk from the ewe and feed the lamb from a bottle until it gains in strength and develops a strong appetite.

One of the best ways to handle a chilled lamb is to place all but its head in as warm water as the elbow can bear. As the water cools, put in more warm water to keep up the temperature. When the lamb becomes somewhat lively, take it out of the bath, and rub it briskly with a coarse cloth until it is almost dry. Then feed it, wrap all but its nose in a thick blanket or cloth, and place it in a warm place to sleep. Keep it away from its mother no longer than absolutely necessary. Always wrap a lamb in a cloth when placing it in artificially heated guarters.

When the ewe discouns her lamb, try to get her to claim it.

Rush Co.

D. O. R.

When the lamb is born, place it and the ewe in a pen measuring 4 by 4 feet, or 4 by 6 feet. Little attention need be given the strong lamb, if the mother has milk, except to see that it finds the teat. If its mother has no milk, it is best at first to take mother has no milk, it is best at first to take a little from a ewe that has more than enough for her lamb. The next best thing to do is to feed whole cow's milk, using it is difficult for her to get away from it.

Woodson Co.

Every effort should be made to keep the lambs growing from the start. The first essential is to teach them to eat. Liberal feeding of lambs dropped before pastures are ready is profitable under any ordinary grain prices. This is best done thru the use of a small inclosure known as a "creep," to which the lambs have access at all times, but into the lambs have access at all times, but into the lambs contain a rack for hay and a trough for grain, so arranged that the lambs cannot get their feet into them.

All feed given, especially ground feed, should be clean, fresh, and free from mold. The lambs will begin to nibble at the feed when from 10 to 16 days of age. Pea-green

When the disowned lamb is one of a pair of twins, both lambs should be placed in a pen next that occupied by the ewe so she can see them, and both should always be put with her at the same time. In her anxiety to nurse the lamb she claims, she is likely to let the other one nurse also.

If a ewe with a good supply of milk is left without a lamb, an attempt should be made to have her raise one, an orphan or one not getting enough milk from its mother. If she has just bot a lamb, it usually is easy to get her to take another by immediately removing the skin of the dead lamb and placing it on the stranger intended for her. If this proceeding is not possible, the suggestions given for getting a ewe to claim her own lamb may be employed.

Teaching Lambs to Eat.

How can I get lambs to eating quickly?

Woodson Co.

D. H. C.

Every effort should be made to keep the lambs growing from the start. The first es-

Grimm Alfalfa.

What do you think about growing Grimm alfalfa here? Osage Co.

I believe the common variety of alfalfa would be better for your conditions than Grimm. Grimm is hardler than common that is it will stand more severe winters, but on the other hand it does not make so vigorous a growth and does not produce so large a yield. I am requesting that op bulletin on "Alfalfa," be sent to you, which will give you additional information.

K. S. A. C. SALMON.

Castor Beans.

Can we grow castor beans profitably here?

Norton Co.

It is our understanding that the Aircraft Board of the War Department is contracting to grow 190,000 acres of castor beans in the Southern states. It is our opinion that castor beans can be grown to better advantage in these states than in Kansas, and on the other hand, that Kansas is better adapted for growing food crops. For this reason we are not advocating a large acreage of castor beans in this state. We have no pamphiet dealing with the culture of castor beans, and I am not informed as to the price of seed or the market for the crop. Undoubtedly the War Department will be the chief market if the war continues.

K. S. A. C.

Schrock Kafir.

What do you think of Schrook kafir for this county? Reno Co.

Reno Co.

We have tried Schrock kafir and do not find it superior to other varieties of sorghum or kafir that may be grown. It cannot be depended on to produce any more forage than Kansas Orange or similar varieties of sorghum, and the yield of grain usually is less than for other varieties of kafir. Also, the grain contains tannin, which reduces its feeding value somewhat. I would suggest that you try some earlier maturing strains of kafir such as Pink or Dwarf Blackhul, providing, of course, that you can get the seed. The supply of seed of all varieties this year is limited.

I am inclosing herewith a list of farmers having seed of various kinds for sale.

K. S. A. C. S. C. SALMON.

Bluegrass in Kingman. Can I grow bluegrass successfully here on

a lawn?

Kingman Co.

For your section of Kansas, I would advise spring seeding. Bluegrass probably would be the most satisfactory lawn grass that you can use, but it will require considerable watering to get it started unless you have an unusually wet spring. I would recommend seeding as early in the spring as possible, using a grass drill if you can secure one.

possible, using a grass urin in the covering is to keep the moisture in the ground until the seed germinates. While I have not seen this method tried in your section of the country, it seems to me that it would be a very good practice providing the covering was not left on too long. A light covering as straw or hay is used sometimes for the same purpose.

K. S. A. C.

Away With Kafir Ants.

I had some losses from kafir ants last spring. How can these be controlled? Johnson Co.

The kafir ant is one of the most serious pests of germinating sorghum thruout Eastern Kansas. Within a day or two after planting the ants attack the seed, hollowing out the kernel, generally preventing germination.

out the kernel, generally preventing generation out the kernel, generally preventing generation. The kafir ant is reddish in color and is one of the smallest ants known. It is found nesting under rooks in pastures and in the soil of cultivated fields.

From the information thus far accumulated, the best measures of control against this insect are good cultural methods in preparing the seedbed, namely, fall plowing the seedbed, namely, fall plowing preferably by the surface planter method K. S. A. C. C. C. CUNNINGHAM.

Concerning the Milos.

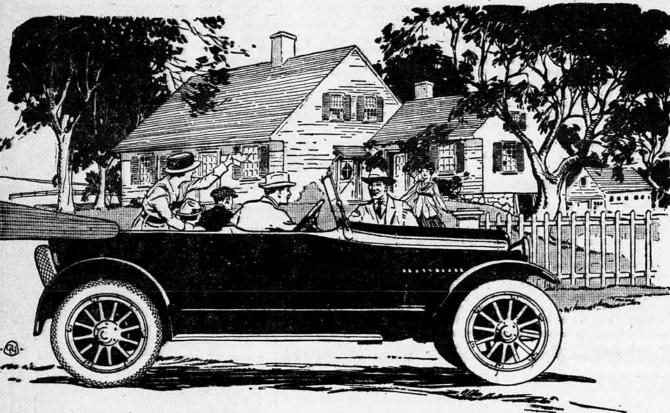
What varieties of milo do we grow in Kansas? Please tell me about the crop-Norton Co. H.

Norton Co.

Milo stalks are stout, rather pithy, and scantily supplied with leaves as compared with kafir. It is inferior to kafir for forage, but because of its earliness it is grown extensively for grain when the seasons are too short for kafir. Chinch bugs prefer milo to most of the other grain sorghums, hence it usually is not profitable where the insects are numerous. Milo is apparently immune to kernel smut.

Three varieties of milo are grown in Kansas, the Dwarf milo, Standard milo and White milo. Dwarf milo is the only one grown extensively.

Dwarf milo matures in from 90 to 100 days and is well adapted for growing where drouth is frequent and severe. Where the production of grain is the first consideration. Dwarf milo is the best crop to grow in the western third of the state, except in the extreme northwestern corner, where it cannot be depended on to mature grain in unfacerable seasons. It is adapted especially to the southwestern part of the state from Ness to Clark countles west and from Ness to Green.



The Most Beautiful Car in America

Make The Minutes Count

In these war days you must realize that it becomes a patriotic duty to own a motor car.

The business of the nation must move forward on high gear. There must be no "let ups"-no wasted effort no inefficiency. Every true American is expected to quicken his stride and make each minute a productive minute.

On the farm, especially - where distances are great—a dependable. motor car is quite as necessary as the telephone. It is the most efficient form of transportation that has ever been developed—and transportation is the key to our entire national problem.

So, by all means, get a motor car-for yourself and Uncle Sam. Any car is better than a slow, plodding, horse-drawn vehicle, but common sense will dictate the wisdom of buying a good one while you are about it.

Take up the matter in the same careful way that you select agricultural machinery. Look for enduring quality rather than mere price. Buy a manufacturer's reputation rather than four wheels and a painted body.

If you make your selection on this basis, we are quite content to abide by the result. If you search for motor car quality you must find the

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e milo is similar to Dwarf milo in ne required to mature, and leafiness ily difference of importance is the f the grain which is white as convict the yellow grain of the Dwarf lis area of growth and adaptation ame as that of Dwarf milo, ard milo is similar to Dwarf milo in size. It grows from 2 to 3 feet Standard milo has practically been ded by the Dwarf variety.

A. C. C. CUNNINGHAM.

Barley in Montgomery County.

the do you think of barley as a crop

county, especially for hogs? T. H. A.

comery Co. is a satisfactory hog feed and will in your section providing Chinch not numerous. Chinch bugs appear barley to other small grain crops they are numerous reduce the yield We have no bulletins on barley. Island that C. A. Barker of Hoxle, 1500 bushels of the 1915 crop for

should be sown as early in the the ground can be gotten into conout the time oats are usually sown all right. I would recommend 2 acre.

S. C. SALMON.

weet Clover for Pasture. Sweet clover be a good crop to

that Sweet clover would be sattsa pasture crop for your conditions,
this spring, it should give some
the middle of June. You could
it very heavily, however, the
a. Next season an acre should
sure for a cow during the sumwill possibly pay better than this
and have a favorable season. It
satured continuously, but better
secured if the field is divided
dir pastured at a time. It should
tory for seeding along the creeks,
be much better than your weeds,
the turned into such pasture early
fing, they will soon learn to like
or as it is one of the earliest vabegin growth. The White Sweet
he best to grow. You can secure
the Barteldes Seed company at
Kan. I am inclosing one of our
lists which may be of some asyou.
C.

Bulletins on Good Feeding.

tell me of some good bulletins on D. C. L.

wing bulletins can all be obtained the United States Department of Washington, D. C. and Fattening Beef Calves in (Department Bulletin 73.) eal Cattle Feeding in the Corn emers' Bulletin 588.) ding of Dairy Cows. (Farmers'

and Management of Dairy Calves Dairy Stock. (Farmers' Bulletin

at for Farm Sheep Raising. Bulletin 810.) stock is Handled in the Bluegrass Kentucky. (Farmers' Bulletin

heep Raising for Beginners. (Farm-in 840.) ion of Farm Wastes in Feeding (Farmers' Bulletin 873.) Management. (Farmers' Bulletin

Farming Methods in Reno.

tell me how to get a start of d Sweet clover. How should I pre-ground for alfalfa? How much need to pasture 12 head of stock? A. W. D.

to your recent letter, we have it Circular No. 44 and Bulletin aling respectively with Sweet Alfaifa. These circulars I believe you the information you dethere are any points which are to you or on which you wish chart in a shall be glad to write it.

amount of pasture required for stock, we find that on good acre of Sweet clover will keep thru a season. Possibly a little this would be required for your

pect to the seeding of your alfalfa round. I would suggest that you stound very shallow very early in or else disk it thorolly and work to a good seedbed with a harrow, pal point is to have the ground a little fine dirt, on top to cover Seed reasonably early, that is, belieded of May, and preferably bested of May, and avoid seeding too bossible use an alfalfa drill.

C. SALMON.

Hog Cholera. I recognize hog cholera by its S. U. B.

worth Co.

affering from cholera show a rise imperature, refuse to eat, appear my be constipated or suffer from followed by mainutrition, emacianess, and a staggering gait estate, able in the hind quarters. The mes rough, and the skin about the and abdomen may be inflamed ish in color. The eyes are freflamed, and about the lids a municipal collects. Respirations may be accompanied by a short hacking the stage of the collects.

pitoms of hog cholera are not easistated from symptoms exhibited wine diseases, and it is difficult a bositive diagnosis of the disease steal symptoms alone. Hogs sick cause should be regarded with susmediately isolated, and maintained marantine pending an expert diagnosis of the disease should be regarded with susmediately isolated, and maintained marantine pending an expert diagnosis of hog cholera in a herd apid and fatal—acute cholera—or holera in the same hard animals affected with either the acute or

the chronic type. Chronic cholers may exist in a herd several days before it is recagnized and often gains a foothold before the owner is aware that cholera is present. In the acute form of the disease, animals sometimes succumb without premonitory symptoms of illness, or die following a short illness.

Spontaneous Combustion.

Can you tell me about spontaneous combustion causing fires? Is there much danger of this?

D. O. P.

Many destructive fiers have been caused by the spontaneous ignition of hay, especially clover and alfalfa, both in mows and in stacks. The first cutting of alfalfa seems to be the most dangerous in this respect. It hay of this kind has rain or dew on it or if the stalks are not cured theorely when it is put up, the moisture will cause fermentation, which may produce sufficient heat to start a fire. The combustion always starts in a part of the mow or stack at some distance from the surface, but it cannot continue long without oxygen from the outside, and it may cease without ever having come to the surface. Its presence can be detected by a peculiar sooty odor or by smoke irritating to the eyes, It may take place from a few days to several weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is put up. There is little danger from this source if the hay is covered weeks after the hay is of the plant of the predict is to grow a pig with plant of the plant of the source if the hay is covered weeks after the hay is of the predict of the predict of the predict of the plant of the predict of the predic

in this respect. Manure piles create a great deal of heat, but manure does not burn readily.

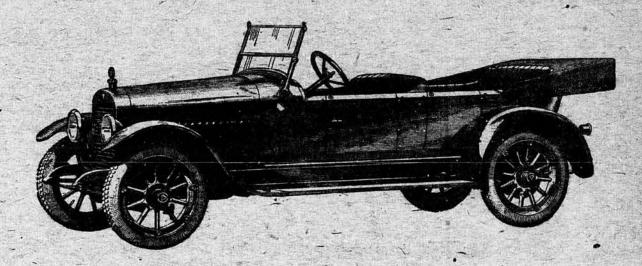
Cloths, waste and sawdust saturated with organic oil of any kind are ever more subject to spontaneous ignition than hay. Such oils unite with oxygen when exposed to the air, and heat is produced. If the oil is spread upon cloth or other material which ignites easily, and if the conditions are such that the heat is not radiated, the temperature may become 30 high that a flame will be produced. The accumulation of such materials should be guarded against.

access to such feeds as corn, mill feeds, and tankage while on pasture. The practice tends to shorten the feeding period and produces pork with slightly less grain a unit of gain. Under these conditions pigs do not neglect their forage but really make more economical use of it than when the grain is limited. In feeding a limited grain ration on pasture more success has been attained by giving an amount equal to 3 per cent of the body weight than when fed in lesser amounts.

cent of the body weight than when fed in lesser amounts.

The most rapid but also the most expensive gains in the pig's life come during the finishing period. During these last few weeks before slaughter the animal is given all the feed he will consume with relish. Much more corn and less protein concentrates are fed during this period, a representative ration being composed of 10 pounds of corn to 1 pound of tankage. The change in rations must be gradual and the increase in feed not too rapid; otherwise the animal is likely to "go off feed," or lose his appetite. Pastures are very valuable at this time, especially those composed of feeds high in protein, for they supply a cheap source of nitrogen and keep the pig toned up and fils appetite keen. A hog will consume a 3½ to 4 per cent grain ration at this time, depending, of course, on the character of the feeds and the weight of the hog, a larger hog eating less in proportion to his weight than a smaller one. The self-feeder was primarily devised to finish the hog at this time and serves its purpose in excellent fashion. Slightly more tapid and economical gains are made by its use than can be obtained by the best of hand feeding.

HUDSON SUPER-SIX



The Farmer, Most of All, Needs a Car That Stays Adjusted

He Will Have No Time This Year to Spend in Making Automobile Repairs

Time is the most valuable thing a farmer can obtain this year.

All his energies must be used in productive

He will be short-handed much of the season. The automobile will increase the amount of work he can do. But if the car upon which he is to rely is one which must be constantly readjusted, he will find it a poor helper.

He won't be able to get expert automobile repair work as he has in the past. All the best me-chanics are needed by the government. They are wanted to repair the aeroplane and truck motors for the army. The best men are already in the

- This is the time when it is safe to buy only the best. car you get this year mus THE require of it, without needing special service attention. You won't have any time to give to it, and there are not enough experts left to look after all the cars that will need their attention.

Then also it is better in the long run to choose a car that will give years of service rather than one

which can be relied upon for only one or two

The Hudson Super-Six is known to thousands of farmers. There is not a section in the country where it is not recognized as the most reliable car a farmer can choose. Altogether there are 50,000 Hudson Super-Sixes in service.

To develop its endurance, regular stock cars we been used in the most trying tests. They have been used in the most trying tests. have established records for endurance and speed that no other car has equaled. Hundreds of owners have kept us informed concerning the service their cars have given them. It has enabled Hudson engineers to increase the endurance limits of these new models.

. If you choose a Hudson Super-Six you will be independent of the scarcity of expert repa You will get a car in which there is no question as to its reliability. You already know in what esteem it is held by those who own Hudsons. Don't you think it better to get a proved car this year? You might regret the purchase of another

HUDSON MOTOR CAR COMPANY Detroit, Michigan

O COMPANY

He

Shock Absorber Care 10-DAY FREE TRIAL OFFER ROBERT H. HASSLER, Inc. 62 Naomi St. Indianapolis, Ind.

Profits in Food

food which means top prices pre-vail. It is doubtful if meat prices ever return to the level existing before the war.

You, who raise, fatten and market cattle, sheep and hogs, receive only a part of the profit there is in them. The big packing houses are making the millions.

Get Into the Meat Packing **Business Yourself**

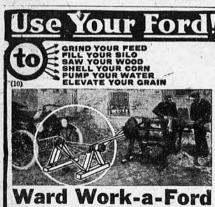
Join the 1,600 other livestock raisers in the southwest who own, control and are now operating the new

Thomas Ruddy Company Independent Packing Plant Kansas City

Take advantage of the opportunity to establish competitive conditions in Kansas City (the second largest livestock market) and enjoy the dividends which the meat packing business so abundantly yields.

Send your name and address for a copy of the new book just published describing the enormous profits which the big packers are making and read the full details about the new independent plant of the Thomas Ruddy Company. Copies obtainable free upon request from

T. S. McQUEEN, Fiscal Agent



Friction Clutch Pulley on end of shaft. Ward Gover nor, run by fan belt, gives perfect control, Money bac if not satisfied. Ask for circular and special price

THE WARD CO., 2033 N St., Lincoln, Neb.

middlings.

prices prevailing, while the supply of several feeding stuffs is far below the abnormal demand. Many producers of livestock, as a result of the highest prices in history and difficulty in obtaining enough of any particular feed, have been forced to institute new methods in the feeding of cattle, hogs and sheep, and these important changes, forced upon the producers as one of the direct results of the war, will go down in the history of livestock production as the beginning of a highly advanced

Prices for feeds are practically double the quotations of a year ago. On the other hand, livestock prices have not increased to a comparative position. An interesting feature of the feed and livestock markets is given in the fact that when prime beef steers were selling on the Kansas City market at 17 cents a pound, corn, alfalfa and other feeding stuff commodities were much lower than today; yet prime beef steers are selling at about \$13 a hundredweight at the present time.

Corn is moving to market in an unprecedented volume, and large receipts are expected until along in March, at which time farmers as a rule begin their spring planting operations. Despite the record movement of the coarse cereal, prices are near the highest level in history. With mixed corn selling at \$1.90 and as high as \$2 a bushel, the feeder of livestock is reluctant to make purchases. Present values of cattle and hogs do not warrant the feeding of corn at \$2 a bushel. Practically half the crop of corn was damaged by frost, and immediate feeding has been necessary to enable growers to realize any profit from the frosted grain. This partly accounts for the great increase in the average weights of hogs reaching

The acute shortage of wheat, in the face of a huge demand from both domestic and governmental sources, is resulting in a large consumption of corn in the form of meal as human food. There is an unlimited demand for corn flour and meal, which millers are unable to fill. To this fact is attributed the present level for corn prices, millers being eager buyers of the white, yellow and mixed varieties. A moderate demand prevails for corn chop, but buyers hesitate in making purchases, due probably to high prices, and the fear of holding the product, corn of last year's crop containing an excessive amount of moisture. One competent authority in the cash corn market declared prospective buyers have lost more by delaying purchases they fearing governmental price fixing -than they would have lost if they had bought and the Food Administration had marked the price down 50 cents. At this time there is little like-lihood of fixed prices.

Strength in corn, as well as in mill feeds, is an important factor in the oats market. Oats prices are the highest in history at about 90 cents a bushel. Human consumption, which accounts for the present levels of corn, has had a bullish influence on the oats trade, rolled oats manufacturers reporting unprecedented sales of their product for human food. Oats are moving to market in a large volume, and feeders are eager buyers, substituting this coarse cereal for corn on an extensive cereal for corn on an extensive cereal cereal for corn on an extensive ermaster's Department is purchasing oats in large amounts for feeding horses and mules of our national army, as well as in the armies of our allies in Europe.

Feeders of livestock are confronted with a peculiar problem in the mill feed situation, the supply being very low in the face of an excellent demand and the prices at the highest level ever known. Millers have been forced to curtail their grinding operations, and naturally the output of mill offals is relatively smaller. About 100 flour mills Northwest—Idaho, Montana, Wyoming in the Southwest were forced to close and other states—is permitting the recently either because of a shortage shipment to market of huge quantities of wheat or because of having already

FEED TRADE conditions in the ground 75 per cent of the wheat allotted United States are in a highly unsettled state, record or near record tion. The extraction of flour from the prices proved the state wheat here we have been increased to 74 wheat berry has been increased to 74 per cent, millers being required to obtain 196 pounds of flour from 264 pounds of wheat, while formerly 272 pounds of wheat were used in extract-

ing 196 pounds of flour

Naturally in this changed milling formula, the supply of mill feeds has been reduced. The only low grade flour now made by millers, as a result of recent orders by the Hoover Adminis-tration, is a 5 per cent grade, and millers are not allowed to sell this as animal feed, but must blend it with 95 or 100 per cent of flour for human consumption. Heretofore millers mixed their low grade flour with the feeds in order to enhance their value. Advices from breeders of pigs and from dairymen indicate that the feeding value of mill feeds has decreased, the protein and fat content being lighter, thereby forcing increased consumption. Maximum prices have been fixed on mill feeds, the price in Kansas City, in 100 pound sacks, amounting to \$1.60, brown shorts \$1.70 and gray shorts \$2.05. A few days ago, profits of brokers, jobbers and retail interests were fixed, and no increase in prices will result from the diminishing supplies. Practically no middlings are being made, the 5 per cent flour containing the bulk of the

The situation in cottonseed and meal is similar to that in bran and shorts, the production of cottonseed products being far insufficient to meet the enormous demand. Some time ago the Food Administration and manufacturers reached a voluntary agreement on fixed prices, amounting to \$56 to \$58 a ton on 41 per cent protein meal; \$54 to \$56.50 on 38½ per cent, and \$52 to \$53 on 36 per cent. Prices are on a basis of Kansas City. An idea of the shortage of cottonseed products is contained in the statement by a large Oklahoma and Arkansas crusher that his millers are unable to supply more than 10 per cent of the orders of stock. than 10 per cent of the orders of stockmen, and the situation with other mills is similar. Lack of tank cars to move cottonseed oil is hindering the opera-tion of mills, and earlier in the year there was a shortage of coal. Another important factor in restricted opera-tions recently was the reluctance of cotton planters to market their seed, so for a long time mills were practically shut down. The market was further injured by an embargo against shipments of cottonseed cake and meal from Texas, the Food Administration attempting this as a plan to save cattle from starvation, due to drouthy con-ditions in the Lone Star state. Many mills are only at the present time filling contracts made last October, November and December.

Feeders are watching with keen interest the trend of hay prices. All varieties, especially alfalfa, are selling actively at the highest levels in history. Alfalfa is in demand from the Southwest, where drouth has persisted for about 18 months. Dairymen, too, are using alfalfa in larger quantities, partly the result of a shortage of other feeds The United States and allied armies should not be overlooked as buyers of hay, purchasers for Uncle Sam being required to buy hay for 325,000 horses are the principal varieties taken by the army.

Record prices are being paid for hay. \$33 a ton for alfalfa, \$29.50 for timothy, \$26 for prairie, and \$27 for clover. Even straw should not be overlooked, for there are reports of increased feeding of this commodity, and sales have been made recently as high as \$13. These unprecedented prices are holding up in the face of heavy receipts at primary markets, and large importations from Canada. Mild weather in the

(Continued on Page 36);

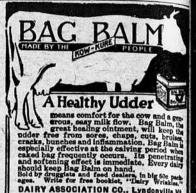
Abnormal Prices for Feeds

Every Farmer Should Study the Markets Closely

BY SANDERS SOSLAND

How To Save Baby Chick

Firming L. Carswell, a big poultry raiser, a care for Baby Chick Severy poultry raiser, a valuable book which talls how to save, feed with the care for Baby Chicks. Every poultry raiser show which contains important facts about which contains important facts abou



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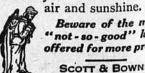
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Beware of the many "not - so - good" kinds offered for more profit.

SCOTT & BOWNE BLOOMFIELD, N. J. 12-133

When Keeping Farm Records You Are Sure of Quality

Here's a Simple Plan That Every One Can Follow

BY J. R. UMMEL

ents without proper records. The ossest observer often is deceived in rming operations without proper cords. I have learned this from servation and practical experience in rming, and I am convinced that the rmer who does not keep some sort of ords is likely to do much unnecessary ad improfitable work operating de-presents of the farm which are a tal loss. So long as the total opershow a gain, the unprofitable erations often are not noticed.

It is a fact also that as soon as the er starts keeping records of the entering into the different enterises of the farm he begins to plan study his business more closely becomes more interested. Conseently the drudgery is lessened. If the farm are not profitable will take immediate steps to make oper corrections. These corrections opid not be made hastily. For expine the dairy department may be made it may be consulting the cords it may be found that certain ws are not profitable. If, after iminaring the boarders, the profits e not what they should be, the trough may be in the method of feeding handling the product.

Why Books are Not Kept.

farmers do not keep books.

the city merchant, especially goes into much detail and fol-in the records of the separate operations. The storekeeper ith actual figures; that is, he definitely what every article is and what he receives for it. records. A convenient place required to record the day's and locked in order to keep w moments' time can be apstudy room, properly has encouraged the son or to do the farm bookkeeping, is the fact that farmers

tried it, usually have used devised by city bookkeepers not know the conditions of books on the farm. The Accounts

earting out to keep farm Bulletin 661.

know only the net

T IS agreed generally that book-keeping on the farm is a necessity.

Farming is a business the same as inking or running a department dinarily correspond with the lease, ore, and no person would think of Certainly every farmer should take an inventory at least once a year. The form in which the inventory at least once a year. inventory at least once a year. The form in which the inventory should be prepared is well covered in Farmers' Bulletins 338, 511, and 661,

Farmers' Bulletins Will Help.

In all cases it is necessary to divide the inventory into two separate groups commonly known as resources and liabilities. The sub-accounts un-der resources are usually farm land and improvements, dairy cattle, hogs, horses, poultry, machinery and tools, farm products, building materials; accounts receivable, bills receivable and cash on hand and in banks. Under liabilities would be listed accounts payable bills receivable and farm mortgages. able, bills payable, and farm mortgages. The difference between the resources and liabilities is commonly known as present worth. The taking of annual inventories enables the farmer to know accurately his net worth thus obtained with the net worth of the previous year, thus he can determine the loss or gain for the year as a whole. But in order to have information as to which of the departments of the farm which of the departments of the farm contributed most toward the gain or loss, additional records are necessary. No special forms are needed to obtain a fairly close estimate of the results of each department.

he in the method of feeding hing the product.

Any form of ledger may be used for this purpose. On the debit or left side of the page should be recorded are several good reasons why the amount p d for seed, fertilizer, hired help, and all other expenses, in cluding depreciation on equipment and tools. Some valuable information can be obtained with regard to the estimated life of farm machinery from Farmers' Bulletin 338. The farmer should also charge to every account his own time, that of any members of the family, and the time of his own teams at convent prices for rds are not nearly so sub- of his own teams at current prices for timates or to variation in similar work. He should, however, are those of the farmer, keep his own time and that of his ords deal largely with esti- family and teams separate from the large of the farmer. alues, are influenced by parhelp, as this information will be valconditions on the farm conand pertain not only to one
of system is another reason
mers have failed in keeping

of the vear the amount of products on of the year the amount of products on s required to record the day's hand. The two sides should then be Provide a desk, prefer-totaled, and the difference will either with a rolltop which can be be a debit or credit and will show and locked in order to keep what profit or loss the farmer would ds in a convenient place so have made had he hired all the help.

Great care must be taken so that no items will be omitted. It is not expected, however, that the sum of the net results of the individual accounts kept will check the net results shown powriter has encouraged the by the inventory at the close of the mid keeping of permanent year, but they will be close enough showing comparisons by to give the farmer much valuable inhother setback to farm rec-formation.

Use Care

Bookkeeping is sometimes made more complicated where the operator and landowner form a partnership. In this connection I would refer you to the forms illustrated in Farmers'

perhaps the first question dues up, is "What accounts ing records than thus-far illustrated —that is, if it is desired to have more exacting records than thus-far illustrated —that is, if it is desired to control the distribution to the different department of the farm by the exact research willing to give to bookceipts and expenditures and cash bal-ance—special forms should be used for How Many Words Can You Make ANOEDYRS recording receipts and expenditures. de for the year as a whole, The form I have found most satisfacis necessary is an inventory tory is commonly known as the mul-chining of the farm year and tiple column Journal, which is pro-line close of the year. The dif-vided with a separate column for between the two will repre- every crop department of the farm, gain or loss for the year, as shown in the accompanying forms:

CASH ACCOUNT	-ILI	CEILIS				
Received from cream and eggs	Dairy S 8.10	Hogs	Wheat	Oats	Poultry \$1.40 \$	Total
oreamery area wheat and 200 bu. oats	0.00	VI REVENTE	200.00	150.00		350.00 9.00
Packing Co., hogs, 8,500 pounds	\$17.00	\$1,275.00	\$200.00	\$150.00	\$1.40 \$	1,275.00

CASH ACCOUNT-EXPENDITURES

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Kerosene Oil, Distillate, Gasoline With my Kerosene engine, you get more power from &c Kerosene than your neighbor can get out of his engine with 20c gasoline—and OTTAWA Engines are easy to start—easy to operate—no batteries—no cranking.

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My money saving plan of selling makes it easy fo to own an OTTAWA—the prices are lower—the q higher as explained in my large new engine

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18% Protein, 4% Fat

Cheap, satisfactory feed for open feeding. Wire for prices. Car Lots only. Quick Shipments.

F. W. BRODE & CO., MEMPHIS, TENN.

Established 1875. Incorporated 1915. Branch Office, Dallas, Texas.

Headquarters for Cottonseed Meal and Cracked Cake

' We will pay you full Prices for your Empty Bags



WE BOTH LOSE MONEY HID TO T. J. BROWN 126 N. Kansas Ave.

Green salt cured hides, No. 1, 12c. Horse hides (as to size) No. 1, \$5.00 to \$6.25 ... No. 2, 11c. " (as to size) No. 2, \$4.00 to \$5.25 Market on cattle hides very unsettled. Write for prices and shipping tags. Payments made promptly.

This puzzle is a sure prize winner—absolutely everyone in this club wins a prize. It is not hard, either—just a little ingenuity and skill. The puzzle is to get as many words as possible out of the letters berewith given. Use only the letters given and only as many times as they appear in this ad. For instance, the letter Y appears three times, so in all your words you must not use Y more than three times. If you use Y twice in one word and once in another, you cannot use Y in any other word, as you have already used it as many times as it appears in this advertisement. It is not necessary that you use up all the letters. The puzzle looks easy and simple, but if you can make as many as twelve words, send in your list at once, as the person winning first prize may not have more than that many words.

GNOSAAOT ARMNANTW

TFLMIMRA

OOAINMTO MOFIAEBL

once, as the person winning first prize may not have more than that many words.

OUR OFFER We are the largest magazine publishers in the west and are conducting this big "everybody wins" word building and prize contest in consample copies and full particulars as to how you can become a member of this contest club and share in the \$10.00.00 in gold and the other valuable premiums. We give 100 votes in the contest (or each word you make. To the person having the most votes at the close of the contest we will give \$50.00 in gold; to the second highest \$90.00 in gold; to the stought highest \$90.00 in gold; to the second highest \$90.00 in gold; to the second with a contest we will give \$50.00 in gold; to the second highest \$90.00 in gold; to the second with a contest we will give \$50.00 in gold; to the second highest \$90.00 in gold; to the second will be a contest with a contest with a contest we will gold. In addition to these prizes, we are going to give away thousands of other valuable premiums of all kin numerous to mention in this advertisement. NOTICE: Every new club member this month also receives titul Genuine Gold Filled Signet Ring, guaranteed for 5 years free and postpaid just for grown Anyone may enter and bear in mind, there is absolutely no chance to lose; POSITIVELY EVERY EVENT CLUB ME WINS A PRIZE. It there should be at the between two or more contestants to any of the prizes, each tynt testant will receive the prize tied for. Get your share of this \$100.00. Send your list of words ToDAY.

CAPPER CONTEST CLUB, 630 Capper Building, TOPEKA, KANSAS

arch 9,

Wha

BY

roads

TOM McNEAL'S ANSWERS

Teacher's Contract

Is a school board in Kansas legally bound to compensate a teacher for the full nine months instead of 8% months at the expiration of the school year, when the said school board ordered the school closed a week on account of a smallpox scare? The teacher's contract meads that he shall teach nine months of 20 full days to the month.

The teacher can collect for the fullnine months.

Stopping the Ditch

There is a deep ditch between A's field and the township road. A cuts a hedge along his field and piles the brush in the ditch. Will A have to remove the brush if the water does not overflow into the road? C. E. J.

I assume that the ditch is a township ditch. If so of course A has no right to throw brush into it and obstruct it.

Insurance

A man dies in Kansas after willing his, property, real estate to his children by a former wife, but gives his widow the use of his estate during her life. The widow keeps up the insurance on the buildings. The house catches fire and burns down. To whom should the insurance be paid, the widow or the other heirs? The property is insured in the name of the widow, who also was made administratrix of the estate but has never made a final settlement altho several years have elapsed since her husband's death.

I am of the opinion that the widow is entitled to collect the insurance.

Settlement of an Estate

My grandfather died 10 years ago. His only relatives were my father and I, his grandfaughter. My father has been dead for five years. My grandfather left no will and I have mever heard how the estate was settled up. Would not this estate rightfully belong to me? What steps should I take? Has it been too long delayed to get anything?

looking after your interests but it If your property consists of real esprobably is not too late. Write to the probate court of the county in which your grandfather died and find what to the deed. You can dispose of your if anything was done about the admin-personal property as you please with the consent and you can manage out his consent and you can manage.

A and B marry. A had no property. B, had. Can A take the property from B's children? Can he take half and then come in as an heir and take half? Can B's heirs demand their share or can A hold the property while he lives?

' The surviving husband inherits half of his wife's estate. Her children in-herit the other half. They have a right to demand a division of the es-

* A Girl Reaches Majority

Isn't a girl legally of age at 18 to do as she chooses regarding marriage, working or leaving home, in fact for every purpose except voting?

R. P. N.

except voting?

R. P. N.

If the young lady reached the age of 18 prior to May 26, 1917, she attained to the rights of majority, otherwise not. May 26 was the date of the going into effect of the statute changing the age of majority for females from 48 to 21.

Hog Tight Fence

A and B live on adjoining quarter sections. The division fence is partly hedge and partly barbed wire. If A should wish to fence his farm to hold higs or sheep would B have to supply half the woven wire for the division fence if the hedge was not dense enough to turn hogs or sheep?

E. F.

If the voters of your township have voted to permit hogs to run at large A can compel B to build his share of a hog tight fence, otherwise not.

Her Property

You do not say where the estate is located or where your grandfather was at the time of his death. The laws of distribution vary in different states. If the estate is in Kansas you are en-

titled to all of it under the facts as could not interfere with my property. I do you state them.

You have delayed a long time in such cases?

Solution of its could not interfere with my property. I do not wish my children to be cheated out of it. What is the law in Kansas governing MRS. B. S.

relation of his property and file your claim as an heir.

Rights of the Survivor

A and B marry. A had no property. B had. Can A take the property from B's personal property as you please without his consent and you can manage your real estate as you please without his consent, but you cannot sell it and give a good title to it. In case of your had, your property had before his he will inherit one-had. half of your property.

Feeding Horses to Hogs

What is the law on killing horses and feeding them to hogs? How can you stop it? We have a neighbor who has killed about 25 head already this winter and does the same every year. You can hardly pass his place for the smell and it is on the public road.

A. R.

If the horses belong to the man and if he wishes to butcher them and feed them to his hogs I know of no law to prevent his doing so. If, however, he leaves the decaying carcasses where they become a menace to the public health, that is an entirely different matter. Complaint should be made to the county health officer.

Damages by a Dog

A has a dog which runs out to the road and barks at every vehicle or car that comes along. B and D come past in a buggy. The dog runs out at the horse, causing her to smash the buggy and throw B and D both out, hurting B's leg and hip. Could B and D collect damages?

SUBSCRIBER.

Yes, provided of course that A is not execution proof.

Cutting Hedges

Cutting Hedges

The county commissioners of this, Franklin county, advertise that they will order all
hedge fences in the county cut down to 4
feet, said-fences to be cut by the landowners and if not cut by the flandowners
then cut and the expense charged to the
land owners. Hedges in this township were
all planted by the men who then owned the
land. On section lines the hedges are 66
feet apart. The widest road is but 60 feet
and some are but 40 feet, so the hedge
fences are all on private property and at
least 3 feet outside the road line and some
are 13 feet outside. We grow our hedges
for different purposes; protection from the
wind, posts, timber, and the like.

Can the commissioners compel us to cut

these hedges down to 4 feet, or cut down and have the expense added taxes?

If Franklin county has voted for hedge trimming law the commission ers have a right to order the hedge cut down, otherwise not.

Ownership of Hedge

Can a man by buying a place hold to hedge between two farms? It has been sold seven times since the hedge was set. Half of the north half has been fenced hog tight at barbed wire was put on. It was sold but lately. The purchaser says that he can cut ail the hedge, take the posts and was and make us put up another fence. His has he farms, ours is in pasture. The fence, an old hedge and is worth quite a bit.

I am in doubt as to the facts. the hedge is on the line it belongs a much to the one tract of land as the other, and cannot be cut down without

While the Breweries Run

During a winter in which schools were closed all over the land, fac-tories shut down for 10 consecu. tive Mondays in more than half the industrial United States, hours of business restricted, and cities left in darkness at night, in order to save fuel, it is interesting to learn that one big American brewery, the Anneuser-Busch plant, admits in an advertisement that it

mits in an advertisement that it uses 325 tons of coal a day, or about 100,000 tons a year.

Statistics gathered by the Anti-Saloon League show that the breweries of the United States consumed 7,264,450 tons of coal in 1916 to make 58 million barrels of beer. It took 181,611 cars to carry coal to the breweries and 195,280 cars to supply them with grain. If only half the beer the breweries made was shipped it must be made was shipped it must have taken 366,151 cars to transport it. All together it took 12,384 trains

All together it took 12,384 trains of 60 cars apiece to haul all the materials required by the brewers in 1916. Add the coaling of these trains to the amount of coal required to operate the breweries and the discovery is made that just the brewery end of the beer business requires a consumption of 8,454,450 tons of coal a year. Here are three vital necessities of wartime being used in enormous quantities by a worse than useless industry. What about the policy of permitting such an unessential business as the liquor traffic to operate at all while we

traffic to operate at all while we put the entire economic system of the Nation out of joint by closing down industries necessary for the welfare of the people and the con-ducting of the war, and stop the pay of thousands of needy wage-earners, that the breweries virtually may burn their thousands of tons of coal a day and waste tre-mendous quantities of foodstuffs.

the consent of the other person. If it is on the land of the man who wishes to cut it down, he has a right to cut it down and compel his neighbor build half of a partition fence.

Insurance Policies.

I have three insurance policies made est to myself. Can I give those to my childres as you would any other property? MRS. E. A.

Yes. You had perhaps better have the policies changed so as to run to your estate. Then if you should die before the policies mature they will be distributed as the remainder of your estate is distributed. is distributed.

Should be Administered.

1. A woman owning real estate dies leaving a husband and a minor child. They live in the property which is in Kansas. There was no personal property in the name of the deceased. Should the estate be administered and the father appointed administrator of could it be allowed to run until the child reaches his majority?

2. And then would a joint deed be a legal transfer of the property?

1. In a case of this kind it might seem

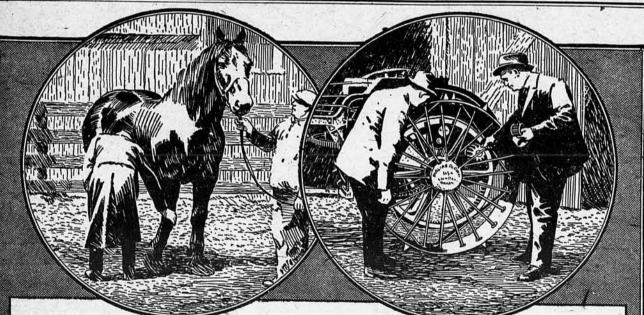
transfer of the property? W. W. H.

1. In a case of this kind it might seem that an administration of the estate ought not to be necessary, but our law requires it. Unless he is disqualified in some way the father should be appointed administrator of the estate.

2. Yes.

One of the main advantages of draft blood is an inherited disposition to work at a moderate pace and to submit to restraint from the collar and the bit with out fractious fuming and fighting at the

0 the



Judge a Tractor by its Bearings

You feel a horse's joints before you buy him. If he is spavined or stiff-jointed you wouldn't take him even at a bargain.

Be just as cautious in the purchase of a tractor-judge it as you would a horse -look at its bearings-the joints of the machine.

The tractor with plain or other unsuitable subject to stiff-joints—stiffness caused by lack of lubrication or poor adjustment.

Hyatt Roller Bearings make sound joints. They reduce friction—overcome lost motion -eliminate wear and the necessity for frequent oiling or adjustment.

Tractor owners and tractor makers, both, know the value of uninterrupted, long lasting service. That's why seventy-eight tractors have Hyatt Roller Bearings built into them

Be sure the tractor you buy is Hyattequipped.

HYATT ROLLER BEARING COMPANY, Chicago, Illinois Tractor Bearings Division

What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO.

The Doctor's Charges.

have a very interesting letter from a but at the same time fears that he overcharging her. He came to her for a confinement, traveling over miles of bad road, heavy with snow, d making the last mile on foot. He is a solution of the so d visits, under better weather conions, that did not take so long. It is needed that he did good work, but a reader has to look close after her s reader has to look close after her cene and wonders if his charge of \$90 not too heavy, saying "We know the ips were very bad, but why should he arge his patients for the condition of Is there any limit to the roads? ount a doctor may charge in a conement case?"

am glad to discuss this because ink 1 am able to look at it from both les. I know that such bills look enorous to the person who has to do a note month's work to earn the amount, I know also that if that doctor all have been excused from that tryt, wearisome trip, and that tedious, and the tedious are the tedious are the tedious and the tedious are th ricited the fee and given a handsome the amount a doctor may charge for reasonable. A court will not attempt hold a doctor to a set figure, because is easy to demonstrate that the work y vary greatly in different cases. me doctors will agree upon a figure forehand, but others protect their own rest- by specifying that such fee is fective only if the case is normal, and wide, personal experience has coned me that this is only just, for wearing, difficult confinement

should he charge his patient for dition of the roads? He doesn't. must always be borne in mind that loctor's charge is not for a case, nor He charges for his time and ort. Having done his best, he is just much entitled to his fee if the results a poor as if they are good. If you are utunate as to require the output time and effort at a period when weather makes the roads impass-more time is consumed and more required and you therefore buy it and must pay a higher price. overpaid, even the the bill may There is just one word more to t constantly happens that docst give their services to persons that the payment of a perfectly seems ruinous. Let such a perplain the situation to the doctor, mally the bill will be reduced to that can be met.

Tonsilitis and Catarrh.

Tonsilitis and Catarrh.

a sister that I am much worried has been troubled with tonsilitis h more or less ever since she was id and she had her tonsils clipped about 20 years old, but the doctor oid the tops off, leaving a portion in and she had several spells of fier that. She is now 38 years old adn't had any particular trouble are until last November. About ling her throat seemed to lose its if when she swallows, she says she that she has a throat. The doctor ad a bad stomach trouble, as she sand her throat being like it was, to choke her. She thinks the her throat are paralyzed. She muscles in her throat don't work you think that the nerves could ad? Please give me your opinion. In the throat will get better, and it has gone hasch and that is what caused the and that when her stomach gets throat will get better. Her stomiter, but her throat doesn't seemiter. Do you think her doctor fake? I am writing you for my bation.

OKLAHOMA READER.

OKLAHOMA READER. decade ago it was considered good A decade ago it was considered good ractice to remove only the protruding perialists now remove the gland enirely. This may be just the treatment our sister needs. The nerves of the heart may be affected, but they are not aralyzed. Your doctor may not be a Your doctor may not be a but his judgment and mine do hot agree. You must remember, how-ver, that doctors often say absurd hings to patients, with the idea of ofering an explanation in language fitted o the patient's comprehension.

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Why Tractor Makers Recommend Oliver Plows to You



Grange Notes

BY EVE GASCHE

By D. M. Lauver, a Member of the Grange in Miami County.

The first urgent call of our government when we entered this world war was for a greater food supply, in-creased food production, in short a speeding up of our activities. At a time when our country and our allies are calling for more food, when our boys are in the trenches to stay there until autocracy is overthrown and democracy is made safe, it should be the special duty of every farmer and farm laborer to give a good account of his time. We are facing a crisis, not only in our country's history but in our lives as well. Let us face it as men, with a steady purpose to do our duty in every spot and place, knowing that there is a silver lining to every cloud, looking forward to a time when the clouds of war shall have rolled away and the sun of peace shall again shine

Democracy emphasizes the individ-ual right to life, liberty and the pursuit of happiness. With this in mind, the rights of the individual are more in evidence than his duties. What he is to get is more appealing than what he is to give. In the enjoyment of his blessings, he is apt to overlook what makes his blessings possible. Democracy yields individual rights but balances them with individual duties. We have not been keeping the balance Individual rights have been working overtime.

others has been a loafer. Now we are closed letter, which I am taking the on the farms the average farmer is disting a sorry plight. We must put reliberty of sending you, contains so posing of his surplus stock and is in sponsibility to work. Civilization is at many pertinent questions and so many creasing his corn acreage, believing the crossroads. Shall it go the way of tyranny or the way of freedom? It depends not alone on our military forces, but on our inner life, on unity sive farming and stock-raising intercapacity, but we must, in the places where we live, furnish the conditions on which they base their action. Individual responsibility is the safeguard of the nation.

The personal question for us is, am I emphasizing the idea of giving or of receiving? The individual must unite with the great mass or lose. throw ourselves into the great national purpose or be a Benedict Arnold. Be a real factor for unity in your home community. Crucify all personal am-losses and believe that their interests bition and enthrone the Christ spirit, are not being safeguarded as they A new chapter is being fought out in Europe. In the midst of death there is arising the life of a new era for mankind. Out of this cruelty and carnage will come a new creation. Let us give our best to our country.

Fair Prices for Farmers

The prices of farm products must be fair if maximum production is to be obtained. Governor Capper has urged this ever since the war started. Here is a letter which he sent to the Food Administration on this subject a few days ago. Honorable Herbert Hoover,

Federal Food Administrator, Washington, D. C.

Dear Mr. Hoover: Doubtless the in-

suggestions of sound sense that I am asking you to give it your careful conthe \$2 mark next fall, much great sideration. E. W. Adams has extenprofit can be realized thru the sale in our home trenches. We can't leave ests in Kansas, and I believe his views is plain that unless something is it entirely to the state in its official are representative of those held by to stimulate pork production and Kansas farmers and stockmen as

I do not think it necessary to present further evidence that the farmers and stockmen of Kansas are patriotic. United effort to increase food production is being made, in the face of the adopted this resolution:
most depressing conditions that have "The National Farmers' asso confronted us in many years. The sit- after due consideration, declar uation becomes still more difficult \$15.50 minimum, or controlling when, in addition to these conditions, our farmers and stockmen face actual losses and believe that their interests

my privilege to talk with many repre-sentative farmers and stockmen of corn cost occurring since the Kansas and its adjoining states. They days of November when how are of one opinion, and that is at the present prices of corn and other feeds tice, both to the farm and the necessary in pork production, the man supply, insist that hog-prices who is feeding hogs faces actual loss, once readjusted." This also is true of the cattle feeder.

The prices being paid the producer last week by the Kansas State are not sufficient to provide a profit Stock association, one of the structure when present feed prices are paid; and producers' organizations in the with the price of corn steadily advanc-ing while pork prices are just as stead-press the sentiments of men who ily declining, it is not to be wondered not only given the situation of at that the farmers of Kansas and consideration but also are engine other states are sending thousands of actual farming and feeding open light-weight hogs and cattle to the It seems to me, Mr. Hoover, that such packers instead of finishing them as action must be taken, and that this action must be taken, and that sistent demand for price regulating they should be finished; nor is it to be tion should not be delayed. The farm-made by farmers and stockmen has wondered at that instead of increasing ers' interests must be safeguarded if Responsibility for others and with become an old story to you. The en- the number of bred sows and gilts kept only in behalf of our most vis

creasing his corn acreage, believing that with corn to be somewhere a grain than thru feeding operations, is plain that unless something is d stop to the selling of sows w face an alarming shortage in meat duction next year.

Representative farmers, members the National Farmers' association convention at Kansas City February

after due consideration, declar on hogs at the Chicago ma materially below the actual production. This figure is alrepressing production and is about within the last few days it has been for the successful prosecution of war. Owing to the radical chan were decided, we, in the name

A similar resolution was

These resolutions undoubtedly _ , tional interests.

With fearful consequences before if we fail in our food supply, I are justified this year in going to any lengths to guarantee producers of food the cost of tion and a liberally fair profit as virtually has been done in of other industries. And this tee will have to be sufficiently to meet fully and to compen widely varying conditions. Some deli-nite and sufficient promise should be

made and made soon. With a minimum price set on wheat and a minimum price set on h may be necessary to set a m price on corn and cattle to sa the breeder and feeder of call hogs. If this is done, the min each case, in my estimation, sho only prevent the deplorable loss which farmers and stockmen edly are suffering, but should possible for them, and well won while—for pecuniary as well triotic reasons—to do their most to increase their output possible way,

I do not see how we dare d wise than make farming and raising unquestionably profit this crucial year with every pending on a food supply which no possible circumstances can our needs.

ARTHUR CAPPER

Abnormal Prices for Feeds

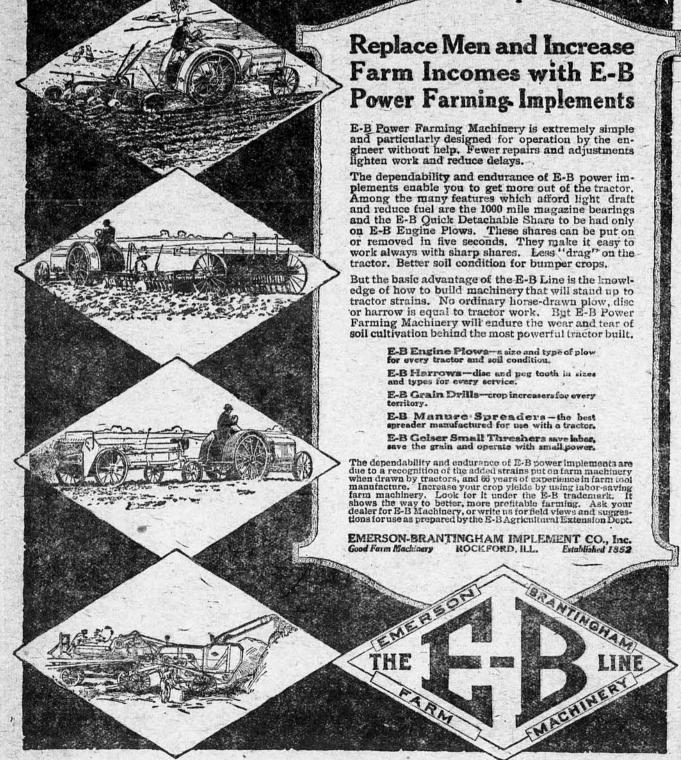
(Continued from Page 32.)

of alfalfa hay. A year ago th west was a beavy buyer of winter of 1916-17 in that territ ing been severe, with large livestock. The Kansas City has is receiving the bulk of all from the Northwest. A year ag

City sent hay into that area. Alfaifa molasses products molasses feed and alfalfa g lasses feeds, tho not in a posi ilar to that of corn, mill feeds seed meal and oats, are in mand, with relatively low prinasked by manufacturers. are substituting alfalfa molas ucts on a large scale for b shorts, corn and cottonseed fe-

Feeders never before exper period in which a study of market conditions prevailing promised greater returns in the ations. Despite difficulty in o shipments on railroads, the feet ets must be watched more clo all who handle livestock.

Usually the pig eating sow is the result of bad feeding.



Notes from Johnson County

BY FRANK MCGRATH

The water problem has been quite a crious one for the people in this town to town, smashing and burning elted, it put water in the creeks and could find. lelted, it put water in the creeks and led up some wells along the valleys. The had plenty of water-all along from well we dug last October in the bed the creek. The stock were driven from the fields to this well, which was no of the principal chores all winter, he last thaw filled up both well and sale hed.

Cattle and horses never did better on Cattle and horses never did better on he stalks and straw stacks. The range as large; 80 acres of corn stalks, 40 wheat, 20 of timothy and 20 of hegrass have been at their disposal Il winter. The volunteer oats in the heat field was relished. The straw acks have great feeding value. We need the flax straw on the bluegrass raw. This kept the bluegrass prime aw. This kept the bluegrass prime nd the stock liked it better than hay. e did not lose any animals from alk poisoning.

A neighbor went in search of some ay here last week. One man asked 4 a ton for his timothy and clover ny; another priced his prairie hay at As the prairie hay was baled and uch closer to his farm, he bought 6 ons of it. Farmers are able to secure ore cars for shipping hay than they build last month. Three cars of allifa were shipped from our trading last worder. oint yesterday.

It got so cold in February that we ad to quit plowing in the field. We re now hauling off our oats on an 85-ent market. The roads are fine. We an put on about 100 bushels by trampig the grain down and using three ide boards. No corn has been sold om this farm yet. There never was o much grain hauled to our town as his spring. That is because shucking as late last fall on account of the orn not maturing at so early a date s usual. The elevator is paying \$1.50 bushel for white corn and \$1.43 for

Johnson county is trying to solve the ed corn question. . The schools are eing called on to conduct tests under the supervision of experienced men. is yet we have done no testing altho e have picked out several bushels of ood seed ears. These will be tested see if they will grow.

Before work became too pressing we ad our pile of wood sawed. About 50 oads were sawed up in 8 hours. The harges were \$1 an hour and we figure e got a bargain. Nothing becomes irksome as to have to cut a pile of rood every evening after coming in from the field. This wood is elm, oak and hickory mixed. People at our rading point offer to buy all we can pare and haul it for \$3 a load.

Machinery Increases the Yields

(Continued from Page 3.)

jumping outfits run by a tractor are ow in use for the irrigation of 5 and 0 acres for gardens, small fruits, or-hards, lawns and shade trees near lopeka. It has been proved profitable o raise water from 70 to 100 feet by ngine power for the production of pecial crops.

Of course it is true that some of he developments of modern machinery which have been suggested may not work out. But some of them will; the wise ones" who were knocking on the proved wrong. In these days no one can tell where progress cannot be made. It is well to remember, too, that practically no new machine comes on the market without consistion. Alon the market without opposition. every new invention has to fight established opinion. Whitney's first totton gin was burned, because it was lelt it would render the slaves useless and would bring on a serious economic broblem. The reaper had a similar experience. Sixty years ago men axed warm in debate considering the displacement of the ox by the horse. Previously men had argued that the tread mill was not God's way of working an animal. ing an animal. Margreaves' first spinning jenny was smashed by neighbors. Queen Elizabeth forbade the use of the knitting machine because she feared it would destroy the hand knitters' chance of living. At one time

n sin-offon-de-heing kinen prod-and

end a second feeds oner mining marks by by

the German emperor forbade the use of automatic devices on looms. In 1810 thousands of men marched thru

the next few years. We are passing thru a very rapid development, in which excellent progress is being made in some lines. It will pay to keep in-formed fully of this.

Altitudes in Kansas

The highest point in Kansas thus far determined and marked by the United States Geological Survey, De-United States Geological Survey, Department of the Interior, is about 12 miles southwest of Syracuse and is the benefit to the people. The Geolog-3,522 feet above mean sea level. A ical Survey is doing its bit in this still higher point, however, established work by freely supplying the data it by the United States Coast and Geodetic Survey, is on the Kansas-Cological Survey, is defined by the government the greater will be well as our allies.

Some may say "We will over supply the data it obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey, is on the Kansas-Cological Survey is doing its bit in this obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey, is explained by the government the greater will be well as our allies.

Some may say "We will over supply the data it obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey is doing its bit in this obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey at Washington, D. C.

The survey also will be glad to supply in the data it obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey and Survey at Washington, D. C.

The survey also will be glad to supply in the data it obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey and the detail of the demand." There is no danger, for many years to come. We must grow pork to feed the millions of people in this still higher point, however, established work by freely supplying the data it obtains, and until the edition of Bulle-detic Survey, is on the Kansas-Cological Survey at Washington, D. C.

The survey also will be glad to supply in the detail to the demand." There is no danger, for many years to come. We must grow vation is 3,876 feet. The absolutely exact elevations of these points and about 600 others, marked by bench showing the published maps covering parts of Kansas and listing the published maps covering the published maps covering parts of Kansas and listing the published maps covering the published maps covering parts of Kansas and listing the published maps covering the published maps covering parts of Kansas and listing the published maps covering the published maps covering parts of Kansas and listing the published maps covering the published maps coverin letin 571, which contains the results of the work of spirit leveling in Kansas from 1896 to 1913, inclusive.

This bulletin is one of a series of similar reports published by the Geological Survey and should be of great value to surveyors and engineers who have occasion to use bench-mark eleva-The point of the whole matter is necessary. The report is, in fact, a chinery situation mighty closely for the next few years. We are passing for white the point of the whole matter is necessary. The report is, in fact, a guide to the bench marks that have been set by the government engineers them. bench marks represent the elevations to the nearest foot as determined by the levelmen, the bulletin gives the exact elevation of each point so marked to thousandths of a foot. The highest point in Kansas not marked is shown on the Cheyenne Wells topographic map. Its elevation above mean sea level is about 4,135 feet.

The greater use that is made of the stomachs. This being the case we have sults of the work being carried on a duty to perform for our nation as y the government the greater will be well as our allies. results of the work being carried on

lications that are available on the geology, mineral resources, and water resources of the state.

Here is a Real "Hog Talk"

(Continued from Page 12.)

ucts that pass thru the great packing houses of the United States is pork. The hog is king and the backbone of American agriculture, but today we are short 6 million hogs. Every farmer should increase his output of pork at least 30 per cent. Today the eyes of the world are on the battlefields of Europe. Already our American boys have joined the allied armies and hundreds of thousands are preparing to go, and we as good American farmers must do our bit. Herbert Hoover has said that "every hog is as important in winning the war as a shell, and every pound of pork as essential as a bullet." Empty guns are about as effectual as empty

can replenish their supply of hogs. This being the case there is going to be money in the hog business for those whoprofit in producing well bred, properly



The new 14-28 sure is a real OilPull

HAT'S the way a Kansas farmer who bought one the other day, put it. And he hit the nail right on the head. Just consider this—in the 14-28 you're getting more than just a small, light weight, easily handled tractor. You're getting all that plus the well known Rumely OilPull dependability and long life-guaranteed ability to burn low grade fuel oils at all loads, under all conditions-automatic speed control-oil cooling. You're getting a real OilPull.

Nor have strength or power been sacrificed in making the 14-28 a light weight tractor. It's a big power outfit—capable of handling up to 5 bottoms in plowing, and to run a 24 to 28 inch thresher with all attachments.

And you'll find the 14-28 extremely easy to handle. The platform is just a step from the ground-all operating levers are within easy reach and all working parts easy of access. It has an automobile steering device. It is short turning. An air starter is part of the regular equipment.

Then there's the patented shifting device that makes the 14-28 equally efficient on drawbar or belt, with no sacrifice in construction. The 14-28 catalog explains it fully—we'll just say here that it is one of the greatest improvements that has been made in tractor construction.

Get These Special Catalogs

A new OilPull catalog just out. every detail of the new 14-28, it describes the medium and large size OilPulls, the 18-35 and 30-60 h.p. Also you'll want the catalog of the new small Ideal thresher—the 20x36 Junior -made especially to be run by a small size tractor. Just ask our nearest branch.

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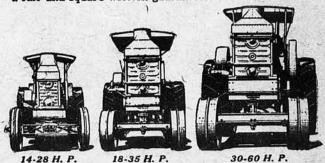
Kansas City, Mo. Wichita, Kansas

For your protection—a written guarantee

A tractor's ability to burn kerosene or other oil fuels can't be established by claims or "near" guarantees. You are entitled to know what kind of an oil burning outfit you are buying, and the only way to protect yourself is to demand a written guarantee such as goes with every OilPull.

Remember this. A tractor either burns oil economically -at all loads-under all conditions that a tractor must run up against-or it doesn't.

Don't be misled by word of mouth claims or guarantees that "talk but say nothing." Demand what you are entitled to -a fair and square written guarantee.



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Farm

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A "W" For the Colts

BY GUY M. TREDWAY Allen County

So many inquiries have been received regarding the construction and use of the "W" in "breaking" colts, mentioned in an article some time ago, that it has been too great a task to answer all personally. One came from Virginia. It may be of interest to the readers to learn that the mule that was becoming unmanageable about which we wrote is, after two lessons with the "W," as easily handled as any mule we have or had. Buyers have recently bought all the mules we have but this one and another.

The first step in the construction of in diameter to each fore leg just above twice is rarely necessary. the foot with the ring to the back. hame strap will go around twice and buckle. Then get a ½-inch rope 25 feet long, one that has been used enough to be easily pliable. Tie a ring 3 inches in diameter in the rope far enough from the end so that it may be if the animal is wild we always go passed around the body and then tied into the ring. Be sure this knot cannot slip. If it should and the surcingle formed by the rope should slip it. A short, stiff buggy whip is extended to get away. The rope is may be able to get away. The rope is passed around the body just back of the fore feet and tied securely. The rope around the body must be rather tight, just loose enough so it gives the animal no pain.

Weight

AH

Purpose

(234)

to its knees. If it is then held tight a short time it will lie down. Come up to the animal from the back, caten the balter, the purpose for which it was handling is run thru the ring in the balter, the purpose for which it was handling is run thru the ring in the left on, and hold its head off the hame thru which the line runs and ground. Climb on it, over it, and hanhence back to the wagon. It will be seen at once that we can control it was and legs, and tail. A lesson seen at once that we can control it was a legs and tail. dle its head, legs, and tail. A lesson of considerable length while it is down will go far to make it think there is nothing you cannot do. It may be put down and handled more than once if "W" is to strap a ring 2 to 3 inches it attempts to get away but more than

> By tightening the rope or "W," but not enough to bring it to its knees, it cannot walk. In this way it is taught to stop at the command. It also can readily be taught to start at command.

Two objects are to be attained them. First, the animal must be made to be road s lieve it must and can do promptly anything we command, and second, it must not be surprised at anything we do. The free end of the rope is then run are made, but care must be taken not thru the ring on one foot, back thru to be rough. After a little training we We have just now been recleaning the ring in the surcingle, down thru always get on and ride. Should it and grading the clover and alfalfa seed the ring on the other foot, back again buck it can be quickly controlled by threshed last fall. Clover seed has

thru the ring in the surcingle and so tightening the "W." If it is necessary to the operator. Until the animal, tie to bring it to its knees we usually slide town, LaHarpe. There has been but the halter rope around the neck, lead it out of the stable and let go the halter. The animal can easily be held by are on its back and usually have no the rope which has been made into a trouble in riding. Training in these three cuttings of alfalfa. For a second must be allowed stand to mature seed. Clover make the feet and surcingle. The harness is then put on and it is only two hay crops anyway and not ing is lost when a seed crop is secure. hitched to a wagon to which another horse has already been hitched. The end of the rope which we have been handling is run thru the ring in the from the wagon and that there is no danger of its running away or doing damage by plunging.

> Sowing oats has been finished on this farm. The greater part of our neighbors do not sow until in March. Last year we finished February 22, broadcasting 1 bushel to the acre and harrowing it in. Fifty-three bushels an acre were threshed. Experience has convinced us that 2 bushels is enough at any time.

> There had been no rain to the first of April. A bushel of alfalfa seed to 6 acres was then broadcasted and harrowed in lightly. The oats looked well before the harrow went over them. Neighbors passing along the road said we had killed our oats but the roots had not been disturbed and no damage was done. This year we shall sow both clover and alfalfa in

governor insures steady, quiet, e ical operation.

Has if a good carburetor? The Cushman has the Schebler—one of the best made. Many so-called farm engines have no

carburetor.

Has it a friction clutch pulley? The
Cushman has one, that alone would cost
\$15.00.

ing is lost when a seed crop is seeme However, neither will make seed in wet fall.

A Record With Hens

(Continued from Page 8.)

are, and then endeavor to fix t prices of poultry and eggs in accordance with the prevailing prices feed and labor.

Everybody in the Food Administration, from Mr. Hoover down, fully a preciates the absolute necessity for tremendous production of poultry di ing the current year, and from what I have seen of Mr. Hoover, it is to te assume that he will look after to interests of the poultry raises. The Food Administration has issued a statement, time after time, that it o pects everybody to reap a reasonal profit on their products, and on the strength of that assurance, we should be a strength of the strength of th have no hesitation whatever about encouraging poultry producers of ere class to produce to the limit of the capacities.

There certainly will be no lack demand for poultry and eggs during the current year, and unless all sign fail it will not be long before we a eating them thru necessity rather than choice. It has been predicted on several occasions that it would not be long before there would be no meat for the general public, and the is not surprising when we know that the supply of hogs and cattle is de

creasing so rapidly. It also has been predicted that man communities may be called on to sup ply their own food on account of the inability of the railroads to adequate handle the war situation. We are facing a situation right now where it has been necessary for many railroads to discontinue the acceptance of all classes of freight except food and fuel so that it is not difficult to imagine a situation where the railroads cannot even handle the transportation of

foods for every community.

We trust that every reader will consider it his patriotic duty to present the facts I have given at every possible opportunity, with a view of inducing every farmer to increase his poultry production and, at the same time, induce others to increase the much-needed poultry supply by mising even a limited number of birds in the back yards.

A Profit from Phosphorus

Phosphorus has been applied to the soil with profit in tests at the collect farm at Manhattan, according to R. L. Throckmorton, associate professor of agronomy in the Kansas State Agricultural college.

In the form of acid phosphate it has been tried for seven years at Manhattan on corn, wheat and alfalfa. Each crop was grown continuously same land, and phosphorus plied every year. The soil treated typical of Eastern Kansas upland.

Wheat yields were increased average of 3½ bushels an acre by nual applications of 80 pounds phosphate. Corn land treated every year with 75 pounds of this fertilize produced an increase of 6.7 bushels at acre. Alfalfa given 190 pounds of a phosphate a year yielded 2.05 tons all acre, which was .36 ton more than alfalfa produced on untreated land.

"Phosphorus is the only commercial fertilizer it usually pays to add to Kansas soils. It has been particularly offective on the commercial fertilizer in the commercial form of the com effective on wheat and alfalfa." ef-

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Potassium has not been giving pay ing returns on any of the crops. Nime gen applications have sometimes been followed. followed by slight increases in yield which are, however, negligible under proper tillage and rotation.

The time to apply phosphorus is when the crop is just ready to start growth. For wheat, fall is the usual time, but a quickly available form such as acid phosphorus. as acid phosphate may be applied early in the spring.

Eat no wheat on Wednesday.



Cushman Electric Lighting Plants, with 4 H. P. Cushman Engine, make ideal plants for farm homes. With the Cushman Patented Self-Starter, a women can start it. Ask for circular.

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Lincoln, Nebraska

814 North 21st Street

Farmers Met at Kansas City

The National Farmers' association, the third annual convention asthe third annual convention as-embled, at Kansas City, Mo., on the irthday of the Father of our Coun-ry. February 22, 1918, in patriotic pirit, adopted the following resolu-ions. They are expressive of the will ad voice of the farmers assembled as legates from the several states and

ections:

We believe that for the best interests of the nation and all people and the cause for high we are now prosecuting the war, the rices of all meat animals should be reguired in accordance with the prices of grain and other feeds used to produce such animals. The cost of producing grass beef, edium corn beef and corn beef being taken to consideration, a price regulation should a fixed immediately to stop the enormous and destructive losses now being suffered y corn beef feeders.

The National Farmers' association, after we consideration, declares the \$15.50 minimal or controlling price on hogs at the bleago market, is materially below the created cost of production. This figure is alway depressing production and about to aperli the future supply so necessary for be successful prosecution of the war. Owing the radical changes in corn cost occurring the realization of the war. Owing the radical changes in corn cost occurring the realization of the war, the results were decided, we, in the name of justice, both to the farm and the war upply, insist that hog prices be at once adjusted.

Resolved that inasmuch as the Food Con-

insist that hog prices be at once ted.

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that inasmuch as the Food Conard has fixed the price of some farm is that we, the National Farmers' asmorated as the price be fixed on the packing plants of this country, so that the profits of retailers be into and where exorbitant and unice profits are being exacted that regulated by the government, wed, that we protest against further of prices on farm products until a ing prices on the articles the farmers uy.

c is at the same time established ing prices on the articles the farmers uy, tresolved, that on all price fixing tees on farm products that a memor of more than 50 per cent of such tees be composed of actual farmers, wed, that the government take the steps toward lowering the price of by compelling the packers and others e holding hides to sell them at a reapprice, based on cost, thus supplying eged shortage, and we further the success of our war and the of the nation be a criminal offense mishable as such. Wed, that we oppose the payment to dis of a profit on "watered stock" dure time they are under government ement, and we favor freight and pastrates based on actual valuations. The success of the actual valuations are time they are under government ement, and we favor freight and pastrates based on actual valuations. The action of the agricultural commitment and in the action of the agricultural commitment and in the action of the agricultural commitment and in the action of the agricultural commitment and wherein it is possible to as a means to help solve the farm problems.

s a means to beliems.

bleve the requests and suggestions regoing resolutions are just and for interests of the nation, and will a greater production of farm producily materially aid in winning the

E. H. BULLOCK,
JEWELL MAYES,
L. W. REED,
C. O. RAINS
A. MUNGER,
D. T. MADDUX,
T. H. DEWITT,
GEORGE E. McCARTHY.
Resolutions Committee,

A Better Seed Situation

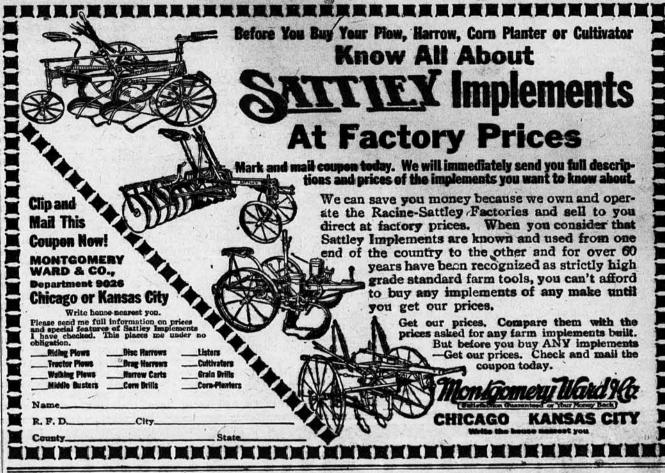
I believe the seed situation is going to handled rather satisfactorily. The evernment is already arranging to pend nearly \$300,000 in the state for eds, and its buyer is busy securing his seed. This is going to stabilize the price, in fact I believe prices are clually going down instead of up. due the publicity given out by the counof defense and as a result of the Practically 500 samples of seed come there every day from all over the late 10 be tested for germination. lest of it is running very low in germination. The big problem is to perade farmers to test their seed before planting in order to know that it will grow, and thus avoid making expenve mistakes.

K. S. A. C. W. M. Jardine. Ten Apple Trees and Two Big

Magazines for \$1.00 For only \$1.00 I wiff send you prepaid ten one-year old Apple Trees (2 Delicious, 3 Northwestern Greenings, 2 vear subscription to the Household Magazine and a two year subscription to the Missouri Valley Farmer. Address, R. W. Macy, Box 20, Capper Egid., Topeka, Kansas.—Advertisement

To Help With Sorghums

An excellent bulletin on the sorshums has just been issued by the kansas State Agricultural college. This is Grand and it is Growing Sorghum in Kansas, and it was written by C. C. Cunningham and Ralph in the Ralph Kenney. It should be in the library of every man who is growing this crop. The bulletin can be obtained from free on application to the college.









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What Food Control Means

(Continued from Page 15.)

recommendation the Food Administration undertook, so far as the influences of these purchases made it possible, to use the purchases for the purpose of maintaining a minimum price for live hogs in Chicago, in order to prevent an undue fall in the price of hogs durthe discouragement of the producer. thus the restoration of the free flow of commodities.

Beyond the above, the Food Administration has no powers or intention to in any way interest itself in price.

Aside from these matters the Food . (Continued from Page 14.)

Administration has been actively in-milk and tankage, and they were runterested in the elimination of profiteering and speculation in the distributing trades by regulating the profits to a pre-war normal basis in order that no greater tax should be placed upon the consumer by virtue of the high prices than bear a proper relation to producers' receipts. A still larger duty has been the maintenance of the even course of food distribution in these times of the greatest dislocation in which the Administration is called upon hourly to help in many directions. The law of supply and demand is not seriously disturbed by the condition. course of food distribution in these times of the greatest dislocation in which the Administration is called upon hourly to help in many directions. The law of supply and demand is not seriously disturbed by the condition of overseas transport and overseas than those mentioned. The law of supply and demand has been, however, seriously interfered with in the other weighed my nigs and found that I had of course of the every week, but I didn't rush them, as of completing membership. In Ford country Carl still needs three boys to country to help in many directions, sleeping condition, and they cerput them in the race for the special was so high, but kept them in good growing condition, and they cerput them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in county Carl still needs three boys to county Carl still needs three boys to put them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the race for the special was so high, but kept them in the county Carl still needs three boys to county Carl s

food commodities within the United produced 2,165 pounds of pork, and I'm quite sure that there will be States during the last three months by with the sow's gain, while in the conquitters in the father and son club virtue of the cumulative shortage, irregularity and disturbance in railway Capper Pig Club is a mighty fine bership in a number of counties transportation and consequent delay of thing." regularity and disturbance in railway transportation and consequent delay of months in marketing the harvest. It is considered, however, by the Administration that the solution to this situation should be obtained by the increased mobility of transportation and thus the restoration of the free flow

Let's Put 'Er Over the Fence

(Continued from Page 14.)

ning on green pasture.

"The pigs soon weaned themselves so I took the sow from them and fattened her up a little, for she was very thin with nine pigs suckling her. When she was fattened up a little, I took her

every week, but I didn't rush them, as

thing.

me a pleasant visit last Saturday. Mr. Jones has proved to be one of the best Jones has proved to be one of the best boosters for the club and we are expecting big things from Clay county this year. He tells me that Elmer, who is in the army, writes him that he has gained 40 pounds since he enlisted. Mr. Jones was recently elected secretary-treasurer of the Kansas Davoe Broeders' association.

Thomas of Ford county. Both of the Corn Club championship, has lined boys mentioned have been hustling to for pig club work. Here are the Man complete their county membership, all county members: Funston has lined up a number of boys MARSHALL "I increased the pigs' ration about in Linn and they only lack two boys very week, but I didn't rush them, as of completing membership. In Ford

Altho we expect to complete me bership in a number of counties. one county, Marshall, has 10 boys W. W. Jones of Clay Center made rolled since last report. Much cra e a pleasant visit last Saturday. Mr. for a complete membership is Lovern Jellison of Vliets. Duroc Breeders' association.

We have two more enrollments in the father and son contest—Mark Hulett and Funston Hulett of Linn county, and A. N. Thomas and Carl Thomas of Ford county. Both of the boys mentioned have

MARSHALL COUNTY

Name Address
Lovern Jellison, Vliets, R. 1
Edward Peacock, Blue Rapids
Wayland Bennett, Waterville, R. 1
Steven Kotapish, Irving
Arlo Smith, Vermillion
Lawrence Mitchell, Vliets
Patrick Mulcahy, Lillis
Wayne Hodges, Marysville
Donnie Payne, Axtell
Willis Jellison, Vliets

Some of the club members as

Some of the club members are h ing difficulty in finding contest son I should be glad to have every breed who has good bred sows or gilts to he will sell for not more than \$100 is breeding stock with me. No member tho, need expect me to purchase a set for him. Securing a sow is part of the business training we are giving nand the contest manager has a fe

things to do anyway.

I'm getting a line on county leaden
You may expect some appointments to
fore long, and the names of the county leaders will be given in the Farmer

Mail and Breeze.

To Grow More Good Berries

(Continued from Page 16.)

amine every plant and destroy the borers. The cane borer makes itsel known by the girdled tops. Cut of the canes well below the girdle and burn them.

Anthracnose is one of the most wide spread and serious troubles of my berries and blackberries. The disease is very noticeable on the canes, when it causes purplish spots which charg to grayish white and become slightly sunken. When the disease is seven these spots become so numerous as it cover large portions of the older causing the bark to scale off and the wood to crack.

The simplest and one of the most important control measures is to cat out all old canes, as soon as the crop out all old canes, as soon as the crop is harvested, and all young cans which are diseased, and burn the Spraying, as follows, will serve to hold the disease in check: 1. Before the leaf buds open, with copper sulfate solution, 1 pound copper sulfate to 2 gallons of water. 2. When the lears are out, with Bordeaux mixtum 3. After the fruit is harvested and the old canes removed, use Bordeau again.

Cane blight is a fungous disease that Cane blight is a fungous disease that attacks the raspberries, infecting the bark and wood at some local point of the cane, causing the part above to die. Thus, an entire cane or a portion of it may succumb. The disease manifests itself about the time the fruit ripens and is characterized by the dring up of the locates and between the ing up of the leaves and berries. the preventive treatment suggested is the case of anthracnose.

Orange rust is a serious disease d blackberries and black raspberries is recognized easily by orangering pimples appearing on the undersided the leaves. These burst and disclare spores which enter other plants the follogo them. the foliage, thus spreading the diseis.

The mycelium or root-like parts of the fungus finds its ways into the pith of the cane and even extends below the ground become ground, becoming a perpetual source of infection to all future growth of the plant.

Since it is impossible to save an infected plant, it should be dug up and hurned at the should be dug up and fected plant, it should be dug up burned at once to eliminate the spread burned at once to elimi of the rust to healthy plants. Bor deaux mixture applied to the foliage will tend to prevent the entrance of the spores.

One of the first ways of increasist the profit in dairying is to reduce the cost of production.





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tact with the tread at the same place at any two revolutions of the wheel. They are made of the best steel electrically welded and highly tempered. Sizes to fit all styles and makes of tires.

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Farm Labor Bureau

Kansas State Agricultural College, United States Department of Agriculture, and Kansas State Council of Defense, Co-operating.

In view of the present NATIONAL CRISIS, can you, and WILL you, PATRIOTICALLY or otherwise, be available for hired service, for wage or by CONTRACT, at any time within the year?

Please fill in the blanks of this QUESTIONNAIRE and hand or mail to Please III in the Dians of this QUESTIONNAIRE and mand of mail to your COUNTY AGENT, SECRETARY OF COMMERCIAL CLUB, or E. E. FRIZELL, MANHATTAN, KAN., at once, and we will credit you for doing a splendid and necessary NATIONAL SERVICE.

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Address, P. O Phone
Single Married If married, number in family
Work wanted—singly or collectively Alone
With team With outfit For wages
By contract Kind of work preferred
Wages expected
Occupation
Experience
When available
References
Names: Addresses:

Fattening Rations for Beef

BY H. J. GRAMLICH

I am feeding some 900-pound steers which bought in December. I have fed them argely on snapped corn and haffir since fetting them, and would like to know if I would be justified in buying oil meal to feed a addition. Would you advise feeding altain now or say during the last 30 days of the fattening period?

Your ration is lacking in protein and am confident that you would be well repaid to purchase either oil meal or cottonseed meal to feed with this forn and the kafir fodder. On that raall of the corn they wish, I would be inclined to feed as much as 4 pounds a day of either oil meal or cottonseed meal. If you include alfalfa, it is head. If you include alfalfa, it is possible you might not be justified in feeding to exceed 2 or 3 pounds a day of the protein supplement.

The snapped corn at \$1 a bushel is 1 200d buy, provided it is reasonably food corn. We have one lot of our cottonseed cake, and alfalfa hay. These it the start of the test.

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you have young stock that can clean up the kafir I would be inclined to think that you would be justified in from now on, rather than the pork. last 30 days. I would say you would be justified in keeping alfalfa and kafir both before these cattle constant- in grain or flavor.

They would not eat a great deal of either, but would appreciate the va-riety. You will note that our cattle where receiving snapped corn, are only taking of their own will 6 pounds of alfalfa hay a day.

Planting Black Locust Seed

I have some land in Southeastern Montana, and would like to plant 1 or 2 acres to Black locust trees. How should the seed be treated? Would it be a good plan to soak the seed before planting? When should it be planted?

Black Locust seed usually is planted tion, if these cattle are receiving about after danger of frost is past in the all of the corn they wish, I would be spring. In other words, you would inclined to feed as much as 4 pounds plant them about the same time you a day of either oil meal or cottonseed would plant beans or other frost-tender garden crops. It is a common practice to soak the seeds in hot water be-fore they are planted. In fact, this is necessary if you expect to get a good percentage of germination. I have food buy, provided it is reasonably seen the seed put in a wooden pail food corn. We have one lot of our and covered with boiling water. In experimental cattle here at the unithis case only enough water should be versity this winter on snapped corn, used to cover the seeds. They are then allowed to stand until cool enough tattle are eating, now, 24 pounds of to handle, and planted. I think it is snapped corn, 2½ pounds of cottonseed safer probably to use water somewhat hand 6 pounds of alfalfa. The steers below the boiling point, and let the seen to be doing well on this ration. They are eatile that would have weighed about the same as your cattle at the start of the test. water at 150 degrees and allowed to soak for 24 hours.

The better the hog the less the food freding some alfalfa to these fattening cost in the production of a pound of

Butter color will not cover up defects

It your subscription is soon to run out, enclose \$1.00 for a one-year subscription or \$2,60 for a two-year subscription to Farmers Mail and Breeze, Topeka, Kan.

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Dirt tracks are the same "going" you meet driving to town, to the elevator, the creamery, your neighbors. An Ajax victory on the track is an Ajax victory for you on the road. In 1917 Ajax Tires swept the field in 237 gruelling dirt track contests—winning the title, Dirt Track Champion of America. On performance Ajax Tires are the natural selection—the money-saving tires for the farmer. Ajax Tires have the special patented feature-

SHOULDERS of STRENGTH

These supports are built into

Ajax Tires, giving them "more tread on the road"—more rubber where it should be. These shoulders make Ajax the long fasting, easy riding the for all roads. "Shoul-ders of Strength" mean longer wear because road friction does not come in one spot to wear through to the fabric

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AJAX ROAD KING "More Tread on the Road"

Ajas Road King proves its superiority on all roads.
Guaranteed to uphold Ajax reputation for service. Ajax Road King gives proved surety under wheel. Truly, a monarch in quality, a democrat in service. Note the triangle barb tread an added safety factor.

97% Owners' Choice

Of the total output of Ajax Tires, 97% are singled out by car owners to take the place of other tires that came on their cars. This is an unequalled endorsement of Ajax quality.

Write for booklet on "Ajax Shoulders of Strength." Mailed free.

AJAX RUBBER COMPANY, Inc., 1796 Broadway, New York
Factories: Trenton, N. J.

"While Others Are Claiming Quality, We Are Guaranteeing It"

Cut this ad out and save it.

Cotton Seed Meal and Cracked Cake

-Our Brands-

JAY DOVE 36% Protein 381/2 % Protein 41% Protein

OWL

LONE STAR 43% Protein

PEANUT MEAL

B. B. Brand

VELVET BEAN MEAL

V. V. Brand, 18% Protein 4% Fat 55% Carbohydrate

WRITE FOR PRICES-COME TO HEADQUARTERS.

F. W. BRODE & CO., MEMPHIS, TENNESSEE Established 1875. Incorporated 1915. Branch Office, Dallas, Tex.

Our Brands Are Standard-We Take Pride in Them.



GUARANTEED 5 YEARS Day a Great Wastern by yourself it is a better sprin. Will'E TODAY. GREAT WESTERN ENGINE CO. 1364 Waldnein Bidge.



This Beautiful Set Ring Free



Warranted genuine gold filled—will wear for years. Most valuable ring ever of-fered on such easy terms. Set with two im. Rubles and two Brilliants, latest style and most substantial mounting. A ring that is Be sure to say what size.

SPECIAL OFFER: We will send this ring free and prepaid to all who send us two yearly subscriptions to the Household at 25 cents each. Show this copy of our paper to your friends. They will gladly give you their subscription when they see a copy. THE HOUSEHOLD, DEPT. SR-7, TOPENA, MANSAS

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Sunday School Lesson Helps

BY SIDNEY W. HOLT

Golden Text. Freely ye received, freely give. Matt. 10:8.

Another title for this lesson would be "An extended personality," for in reality that is just what Jesus did when He sent forth the 12 men He had been training. Gradually He had gathered them together and in the middle of His public ministry He set them apart to be with Him the rest of them apart to be with Him the rest of His life, and however undeveloped they may have been in the beginning they possessed the largest possibilities of any of His true followers. Day after day as the natural result

of the companionship and the continual example of Jesus's perfectness there grew in the hearts of these simple, imperfect men a deep, intense love which, backed by their devotion and admiration, finally developed men of such character that they afterward proved to be the most influential instruments in handing the Gospel down thru the ages. Had Jesus taken perfect men to to work in pairs.

Endowing the disciples with the Gospel a beautiful story, but it would never have held the wonderful appeal over unclean spirits Jesus started them be declared by quite prominent people to be declining, despite its steadily in-

that the growth of these men holds, for out on their new task just as ordinary we realize from their difficulties and men in their ordinary dress, walking their temptations just what Jesus from place to place and earning their their temptations just what Jesus from place to place and earning their means to our inner life and what the humble needs as occasion demanded. result will be if we follow the goal They were given a definite field to the place and earning their means to our inner life and what the ever held before us.

After six months of intensive train-Lesson for March 17. Jesus sending forth the twelve. Mark 6:1-31.

Golden Text. Freely ye received, was growing every day to such an thru an extensive method. The work was growing every day to such an extent that their field of endeavor also must increase. Jesus also wished to see how they would work without His visible presence, for in a short while they would have to work alone. This first journey of spreading the love of Jesus was their testing time.

And He called unto Him the 12, and began to send them forth by two and two.

"So when two work together each for

Is quick to plan, and the other teach; But when alone one seeks the best to

know, His skill is weaker and his thoughts

In all works of definite purpose twice one is more than two. Very few persons are fitted to fill all the demands of any public gathering, and the wisest and the most successful way is

They were given a definite field to work in: that is, they were commanded not to go into the way of the Gentiles. the road that led to the surrounding nations, but to go rather to the lost sheep of Israel. This is not so selfish as it at first seems for it does not say that they are never to go outside, only that in Galilee was the best starting point. And this was true, for the Jews as a nation had had a long training in the religion of the true God and His-expected Messiah. They had the prom-ises of the new kingdom and were therefore expecting it. The disciples were acquainted with the people, and as poor men they could the more easily get work enough to sustain them while in Galilee.

On reaching any city or village, they were first to seek for some family that had heard Jesus or one that was worthy of being associated with them in their message of peace and hope. Here in this quiet manner they were to live their gospel, teaching it thru the example of their daily lives, per-forming the tender acts of mercy and healing that Jesus had given them

creasing numbers and gifts, because much of its work is done thru the ganization outside of the church. idea comes from a misconception the work of the church. The great ligious organizations like the Y. C. A., Y. W. C. A., rescue mission, h pitals, schools and colleges are and the instruments that are making a world better, healthier and happy They are simply the church at wo doing the things for which the chur is training its members.

Care in Hardening Plants

No plant should be taken direct from a hotbed or from a box in a house and exposed at once to me weather conditions. The change should be taken direct from a hot be to me weather conditions. be made gradually. Sometimes this accomplished by first removing a sash on warm days, then on codays, then on warm nights, and find on cool nights. With plants shifted beds or flats, however, it is better move them to cold frames covered. move them to cold frames covered w glass, and gradually harden them of there. The cool-season plants maintainly be subjected to even a in finally be subjected to even a lift frost, but the warm-season conshould never be exposed to so low temperature. Besides exposing the plants to cool conditions, they show be given only enough water to keep them healthy, so they will become a customed also to the dryer conditions of the open field. One should not consider the open field. of the open field. One should not surprised if the cabbage plants to purple and the head lettuce to a bronze-red color. These are indice tions of well-hardened plants.

Fistulous Withers

I have a horse which has had fistule withers for three years. There is a constal discharge. How can I cure him?

Nebraska.

I do not believe that there is an medicine that will cause the fistiles withers affecting this animal to he up. The constant discharge is endence that there is some discased a dence that there is some discased at the pottom of the world. dend tissue in the bottom of the wom and that the wound does not have sif-ficient drainage. Correct treatment therefore, consists in a surgical open-tion which will remove such dead the sue and which will give proper drain age to the wound, after which the co dition is to be treated by daily washings with some mild antiseptic. It view of the fact that this condition has existed for three years and longer, in my opinion the chances of obtaining a permanent cure are not very good. The surgical work in a case of the kind should be performed by a comp tent graduate veterinarian.
K. S. A. C. Dr. R. R

Dr. R. R. Dykstra

Improved breeds of hogs improve the

Very Much Awake

The Farmers' Union of Kansas at its recent annual meeting went on record with some resolutions which show that the headpiece of the man on the farm is working. Here are a few of them:

Here are a few of them:

We heartily endorse the government policy of price-fixing and ask that the government control of prices be extended to cover every commodity in the market.

We demand government ownership of railroads and all other public utilities, such properties to be acquired and pald for at their actual physical value

Be it resolved that the president appoint a committee of three livestock men at this meeting to investigate some of the independent packing plants and formulate a plan to coperate co-operatively with such plants; that the state lecturers and organizers solicit pledges for stock at a par value of \$100 a share, and when the necessary amount is pledged to make it safe to buy, build or coperate, that a meeting of the pledged stockholders be called to perfect an organization.

Be it further resolved that the Food Administration be urged to take immediate steps to equalize the price of feed and livestock prices to insure fair compensation and increased insure fair compensation the fair resolution by wired to Mr. Hoover at once.

This is precisely the way to

This is precisely the way to grapple with the packing trust. cannot do business without the help of the producer.

The request telegraphed Hoover if acted on immediately, will stop the landslide of farm stock to the butcher now going on because the feed costs more than the animals produced by it will sell for.



United States Rubber Company

Clothing Division, New York and Boston

Feeding Calves for Market

BY H. J. GRAMLICH

I have some 10-month-old calves on feed, would it pay me to grind corn and oats and feed this mixed, with alfalfa hay? Would you advise feeding them cottonseed meal?

Early in the winter and later last fall, when oats were as cheap as 50 fall, when oats were as cheap as 50 cents a bushel, it was quite advisable to feed them to fattening animals, especially calves. However, with the market up to its present high figure, I doubt very much the wisdom of feedall At present they represent a price of about 2½ cents to 2¾ cents a pound, and for fattening calves cottonseed meal at 3 cents a pound should prove to be the better and more economical feed, in conjunction with corn and alfalfa hay. A small amount of oats might be fed with the corn and the cottonseed, largely for variety, say 2 pounds of oats a head daily.

These calves, 10 months old, on full feed, would probably be consuming at feed, would probably be consuming at this time about 12 pounds of corn, 2 pounds of oats and 2 pounds of cottonseed, or in the proximity of 14 pounds of corn and 2 pounds of cottonseed, together with from 3 to 4 pounds of alfalfa hay. This should be rown satisfactory ration very satisfactory ration.

Where you have plenty of pigs following the calves, I doubt the wisdom of grinding the corn unless you are situated in such a way that you can grind it quite cheaply.

grind it quite cheaply.

These calves, on the ration mentioned, should be gaining from 2 to 2¼ pounds a day. On this basis you could very quickly figure the feed cost of a pound of gain. Taking the ration given with 14 pounds of corn at 2½ cents a pound you would have 35 cents. Two pounds of cottonseed at 3 cents a pound would be 6 cents more, and 3 pounds of alfalfa at 11/4 cents a pound would be approximately 4 cents more, giving a daily feed cost of about 45 cents. If your calves make 21/4 pounds a day, which they should do on this ration (and might even make 2½ pounds a day) your feed cost would be from 17 to 19 cents a pound of gain.

You are doubtless wondering on this basis where you are going to stand a chance of breaking even. It would seem as the calves should be bringing seem as the calves should be bringing considerably more money in another 60 days than they are at present. There is a possibility that you would have sufficient increase to let you out nicely on these calves, altho I doubt if they would make what might be termed a handsome profit.

You probably are feeding them a grade of corn which is not worth at present \$1.40 a bushel. It may be that you are feeding corn which is worth than 2 cents a pound and which would

i would be inclined to recommend the strongly the use of 2 pounds of cottonseed meal or oil meal in feeding these calves. Either of these protein supplements would prove satisfactory. would help to stimulate the appethes of the calves and would keep them in good thrifty condition.

Killing of Peach Buds

To a farmer with a peach orchard it is of great interest to know the condi-tion of the buds as the winter progesses, and such a knowledge also is of considerable practical value in plan-ing the orchard work, for the pruning of the bearing trees should be guided largely by the number of live buds in tent of the injury may be lessened somewhat by good orchard practice, reeping the trees vigorous, and planthardy varieties.

In examining peach twigs it will be Loticed that the buds are borne commonly in groups of three, the two outside buds being much larger and plumper than the central bud of the group. In practically all cases these cuter buds will be found to be fruit buds, altho occasionally only one, and semetimes all three, may be fruit buds, and again there may be but a single fruit buds. ruit bud or a single leaf bud. Being able to distinguish between fruit buds and leaf buds, the condition of the

sharp knife. If they have brown or

black centers, they are dead.

In order to obtain an accurate estimate of the probable crop as based on the number of live buds in an orchard, twigs should be cut from several rep-resentative trees and from different parts of a tree, and the buds counted carefully. If one bud in 10 is found alive, it is fair to assume that enough buds have survived to produce a good

A Demand for Draft Horses

The demand for draft horses on our farms is increasing at a phenomenal rate. Argument to convince an intelli-gent farmer of the advantage of using heavy horses is no longer needed. He knows it. Farm sales reflect the situation. Roomy, drafty mares—grades—standing from 16 to 16.2 hands, and weighing 1,600 pounds or over, will, if of reasonable age, command \$500 to \$600 a pair in almost any farm sale; and there are never enough of these and there are never enough of these animals to satisfy the clamorous de-mands of hard-headed farmers who wish good teams. Small stuff and animals of draft

breeding but too young to work may sell at a discount, but draft animals of serviceable ages are keenly sought after by farmers in all sections of this country. For a time last fall they

Big Dividends Still Piling Up

The dividends of 38 copper mining companies for 1917 amount to 192 million dollars. They have made more than 356 millions in

profits within the last two years.
The Dupont Powder Trust, an enormous profit-maker, is to be paid 2 million dollars for constructing a powder mill for the government at Nashville, Tenu. For operating this plant six months, it is to get 3½ cents for every pound of powder it turns out during that time.

These and all other trusts and big businesses go on piling up mil-lions of profits and when their billionaire and millionaire beneficiaries pay their income taxes they find they have twice as much

Why doesn't Congress draft 80 per cent of this money instead of squeezing it out of the desperately harried and burdened people who must pay toll on all sides to the profiteers for the right to live while their sons go to Europe to save and protect with their lives the property and profits of these profiteers?

sold below their real value, on account of the attempts of many owners to cut down on feed bills during the winter, in the hope that they might thereby be able to buy at a figure this spring which would make the venture profitable; but prices on good grade draft mares have advanced fully \$50 a head in the last 60 days, and men who sold themselves short last fall are destined to pay dearly for their experience this

Skunk Oil

Where can I sell skunk oil? Timken, Kan. H. J. P.

I doubt if you could secure a market for skunk oil. I have heard of its being used for rheumatism and other hargety by the number of live buds in the orchard. A knowledge of the various conditions by which fruit buds may be killed is of little benefit in alleviating the difficulty, altho the extent of the injury may be lessened ould smell and ma tient so sick that he would forget all about his other troubles That probably is about all the good it would do. However, I suggest that you inquire of your druggist. There are a few places in the country still holding to the idea that there is virtue in the

skunk oil or musk, or both. Dr. Robert K. Nabours. K. S. A. C.

In breeding it is the well settled rule that like produces like, but there is an additional clause which declares that this is doubly true where there is some defect; that is, that the tendency former may easily be told by cutting to transmit a defect is greater than them open thru the center with a the tendency to transmit a good trait.



Miller Announces Uniform Tires

Built by Crack Squads (96% Efficient)

OTORISTS today must choose between about 429 brands of tires. Even tires made side by side, in the same factory, differ in mileage enormously.

If you get a "lucky" tire it may run between 5,000 and 10,000 miles. The next may fail under 500.

Not so with Miller Tires. Once they varied as the rest do. Today less than one per cent ever call for adjustment.

It would seem that other makers, too, could attain this uniformity. For methods are standard — known to all.

But tires are mostly handwork. They differ as the men who build

Miller has triumphed by solving this human equation. By ridding these tires of "human variables."



99 Per Cent Excellent

Miller tire-builders are carefully recruited. Each must pass exacting standards.

He is marked on every tire that he builds. But more than that, he is penalized if ever one comes back.

Thus we've created a body of master tire-builders. They compose the crack regiment of the whole tire army. Their average personal efficiency is 96 per cent.

The tires they build - 99 in 100 — wear practically uniform under like conditions. That means these tires are 99 per cent excellent.

Tens of thousands of records furnish conclusive proof.

Give Them This Test

These are the only tires actually geared to the road. Note the ratchet-like-tread — how the cogs engage the ground at each

That gives positive traction on wet country roads; it keeps the wheels from spinning when you start your car. Thus the Miller Tread prevents scuffing and burning tires. And of course it makes all roads safer.

Next time don't buy only one tire — put a pair of Miller teammates on opposite wheels of your car. Then both will experience like wear.

After that test of Miller uniformity you'll never trust to luck.

THE MILLER RUBBER COMPANY, Akron, Ohio

Makers of Miller Red and Gray Inner Tubes— The Team-Mates of Uniform Tires

Miller Dealers In This Territory

Abllene, M. J. Rospray
Almena, Tellesen Bros.
Atchison, Atchison Vulc. Co.
Arkansas City, Red Cross Garage
Caney, Meeker Bros.
Chanute, Miller Oil Co.
Charleston, C. C. Isely Lumber Co.
Chetopa, McCormick & Morgan
Cinamon, C. C. Isely Lumber Co.
Codell, Lesher & Tucker
Coffeyville, Coffeyville Garage
Concordia, W. O. Jepson
Concordia, W. O. Jepson
Concordia, K. I. Pottinger
Cedar Vale, A. N. Shaver
Council Grove, Central Garage
Dexter, R. Beals
Dodge City, City Transfer Auto Livery Co.
Fulton, W. S. Dail & Co.
Frankfort, Swanson Auto & Supply Co.
Ft. Scott, C. C. Crane Hdw. Co.
Galena, White & Allen
Glasco, W. B. Newton
Goff, G. W. Sourk
Gorham, John Small
Greensburg, Brown & Tucker
Greeley, Oil Belt Garage
Greeley, H. C. Blandin
Hlawatha, F. M. Emerson
Horton, Martin Hardin
flutchinson, Moon Motor Car Co.
Iola, Miller Oil Co.
Iola, T. B. Shannon, 18 W. Jackson St.
Junction City, Auto Cycle & Supply Co.

Kansas City, Fred Herman, 1013 Minne-Kansas City, Fred Herman, 1612 Minnesota Ave.
Lawrence, E. W. Smith
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Liberty, H. E. Carson
Newton, Martens Motor Co.
Newton, F. E. Loper
Oberlin, Jos. H. Young
Otis, C. M. Brack
Parsons, M. A. Gamer
Parsons, W. C. Holmes & Son
Pittsburg, Pittsburg Tire Co.
Pittsburg, Pittsburg Auto Supply Co.
Pierceville, Jewell Garage
Prairle View, Fansler Garage
Riley, Chas. Kaup
Richmond, T. S. Semple & Co.
Russell, Radke Bros. Co.
Russell, Radke Bros. Co.
Russell Springs, Harry Ham
Salina, C. W. Bell
Salina, Belle Tire Service Co., 153 N.
7th St.
Salina, Interstate Vulcanizing Co.
Salina, Lee Hardware Co.
Smith Center, J. O. Smith
Spearville, R. E. Wood
Strong City, Strong City Garage
Stafford, D. M. Gay
Topeka, West Motor Car Co.
Topeka, Topeka Auto Tire Co.
Topeka, Topeka Capital
Winona, Thouvenell & Baker
Wellington, Galloup & Crow
Wichita, Jones Motor Car Co.

March 9

BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are reliable and bargains offered are worthy of consideration

Special Notice discontinuance or copy intended for the Real Estate Department must reach this office by 100 elock Sesturday morning, one toek in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

GOOD WHEAT SECTION; well located; will split; some in cultivation. \$25 per acre. Good terms.. C. W. West, Spearville, Kan.

600 ACRES, well improved, lays good. Price \$50 ger acre. Other farms for sale. John J. Wieland, Emporia, Kan.

360 ACRES GOVE CO., KAN.
190 cultivated, balance pasture. \$12.00 acre.
W. P. Dorman, Girard, Kan.

160 ACRES, 20 acres wheat, 4 miles county seat. Incumbrance \$5000, price \$75 acre. Triplett Land Co., Garnett, Kan.

RANCH 1500 A., part river bottom, improved.
About 6000 acres pasture, \$15 per acre.
Terms. Box 364, Syracuse, Kansas.

320 A., 3 MI. TOWN. ALL IN GRASS. All level, no imp. Price \$7,000. Terms on part. H. J. Settle, Dighton, Kan.

4 SECTIONS of good ranch land in a body located about 11 ml. S. W. of Elkhart, Kan. \$10 a. Earl Taylor, Elkhart, Kan.

720 ACRE STOCK AND GRAIN FARM. Well improved. 400 cult., bal. grass. \$60 acre. Investigate. W. P. Dorman, Girard, Kan.

I HAVE A GOOD BUNCH OF FARMS AND RANCHES FOR SALE. If you have anything for sale list it with me. Write Guss Schimpff, Burns. Kan.

290 ACRES, six room house, new barn, close to school and three towns. Possession March first. Price \$30 a. Easy terms,
The King -Realty Co., Scott City, Kan.

160 ACRES, well improved, abundance of water, 3 miles good town. Price \$9,000, good terms. Some good exchanges.

Holcomb Realty Co., Garnett, Kan.

FOR SALE—All kinds of farms in North-eastern Kansas. Send for printed list, Silas D. Warner, 727½ Commercial St., Atchison, Kan.

LANDS IN STEVENS and Morton Counties, Kansas, and Bacca County, Colorado. Write us for prices, John A. Firmin & Co., Hugoton, Kan.

185 ACRES \$55 PER ACRE.

Montgomery Co., 5 miles good town, 130 cult., 20 mowland, balance pasture; improved. Get details.

Foster Land Co., Independence, Kan.

Highly improved section, on state road, between 2 towns, terms \$30 an acre. Level quarter grass land \$10 an acre. Get a list of bargains. C. N. Owen, Dighton, Kan.

8000 A. RANCH. 7500 a. grass. 2 mi. of spring water. All fenced, cross fenced, good ranch improvements. 1500 a. alfalfa land. 4 mi. town, main line R. R. \$15 a. Terms. F. H. Templeton, Spearville, Kan.

INCOME PROPERTY wanted for 320 a. good smooth land. Good location for farming, or raising cattle. Price \$1,50. Mortgage \$1,000, 5 years 6 per cent.

J. M. Edmiston, Garden City, Kan.

IMMEDIATE POSSESSION of 80; 120; 150; 400 acres. No matter what size tract you may be interested in, come at once.

MANSFIELD LAND CO.,
Ottawa, Kansas.

175 A., ½ MI. AGRICOLA, 4½ Waverly, 10 alfalfa, 20 clover, 20 blue grass pasture, 18 wheat goes. New house and barn, granary and crib, two chicken houses, two good wells, never failing. Will carry \$4,500, 6%. \$12,000. \$12,000. W. H. Lathrom, Waverly, Kan.

227 ACRE FARM

in Polk County, Mo., highly imp., -1/2 valley land, to trade for good farm in Okla. Price \$55 per acre. R. L. Presson, Bolivar, Mo.

Improved 276 A. Alfalfa Farm All tillable, 60 acres in alfalfa, 160 acres fine hay land, good gas well on land, 14 mile to good oil wells. Price only \$65.00 M. T. Spong, Fredonia, Kan,

CHOICE QUARTER—\$2500.00 easy terms, 6%. No trades. No improvements Get busy if you want this bargain. Write owners. Griffith & Baughman, Liberal, Kan

160 ACRES FOR \$2500

Good wheat and alfalfa lands at from \$15 to \$30 per acre. Also some fine stock ranches. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kan.

A Good Stock Farm

160 a., 5 room house, cow and horse barn, sllo, sheds, scales, everlasting water, 50 a. alfalfa, good pasture, phone and mail, ½ mile school, 4½ miles to railroad, 70 acres wheat goes if sold soon. Reason for selling, old and boys at war. \$6.50 per acre if sold soon. Write owner.

Wm. Littlefield, Belvue, Kan.

60 A. IMP., ALL TILLABLE, \$45 a., \$800 down, bal. easy terms 6 per cent. 160 a. well imp., 2½ town, 100 a. cuit., 40 wheat goes, 40 pasture, 20 meadow-orchard, \$45 a. \$3,000 will handle. Limestone soil.
P. H. Atchison, Waverly, Kan.

CHASE COUNTY stock farm, 282 acres, 5 ml. Elmdale, ¼ mile school. Daily mail, telephone, good roads. 100 acres cultivated including 25 acres alfalfa, 20 acres wheat. 180 acres pasture, timber, creek. Fair improvements. No trades. Price \$15,000.

J. E. Bocook & Son, Cottonwood Falls, Kan.

160 ACRES creek bottom near Emporia, well Improved, 40 acres in alfalfa, near school; \$70 per acre. 80 acres, 3 miles from Emporia, 60 acres in alfalfa, 15 wheat, extra good improvements; \$10,000. 150 acres, well improved, 80 fine wheat, smooth land, 6 miles town; \$10,000. Write for list T. B. GODSEY, Emporia, Kun.

TWO 80 ACRE FARMS ON EASY PAYMENTS.

Both of these farms located in Franklin
county, Kansas.
railroad towns,

FOUR IMPROVED FARMS on Fort to Fort (concrete) road, Leavenworth county, 160175-320 and 425 acres, three fourths latter in
wheat, choice valley land. A tractor farm.
All farms join shipping stations, close to
school. Two Kaw Valley farms. 75 acres
highly improved potato land, close to high
school town. 123 acres improved, 100 acres
wheat, close to station. All priced to sell
quick.

Good terms.

HEMPHILL LAND CO.,
Lawrence, Kansas.

680 ACRES WELL IMPROVED, 216 miles of town, accredited high school, ½ mile of country school, R. F. D. and phone, 260 acres wheat all goes, half under cultivation, all tillable, best of soil, inexhaustible supply good soft water, new 5 room house with 23 ft. square basement, out door cave with underground entrance to out door, arched cave, two good granaries, windmill, chicken house, wash house, good barn 28x40 with loft, nearly all under fence, in good neighborhood, price \$35.09 per acre, easy terms or might take good quarter section as part pay in Central or Southern Kan., bal long time.

Box 141, Utica, Kansas.

ARKANSAS

160 ACRES 5 miles Leslie, 40 acres cultiva-tion, good improvements, good water, orchard, 140 acres can be farmed. \$1800, terms Wallace Realty Co., Leslie, Ark.

FARM LANDS

PRODUCTIVE LANDS. Crop payment on easy terms. Along the Northern Fac. Ry in Minnesota, North Dakota, Montana, Idaho, Washington, Oregon. Free literature. Say what states interest you L. J. Bricker, 81 Northern Pacific Ry., St. Paul, Minn.

MISSOURI

BATES CO., Mo., stock, grain, blue grass and clover farms. Duke, Adrian, Mo.

240 ACRES fine imps., all tillable, \$85 a. E. M. Houston, Archie, Mo.

SPECIAL BARGAINS, good investment on farms for sale. Write for free list. Terms to suit. J. H. Engelking, Diggins, Mo.

FOR STOCK and grain farms in Southwest Missouri and pure spring water, write, J. E. Loy, Flemington, Missouri.

BLUE GRASS, Corn and clover farms. 60 ml. south of Kansas City. Best buy you can make. Write me. Parish Real Estate Exchange, Adrian, Mo.

80 ACRES, 5 miles from Carthage, all smooth, all tiliable. Well improved, \$85 a. Farms of all sizes at special bargains.

D. W. Replogle, Carthage, Mo.

CASS COUNTY. 300 acres highly improved ideal for fine cattle ranch; close to Harrisonville; all second bottom and half grass. Charles Bird, Harrisonville, Mo.

POOR MAN'S CHANCE-\$5 down, \$5 month-ly, buys 40 acres, productive land, near town, ly, buys 40 acres, productive land, near town, some timber, healthy location. Price \$200. Other bargains. Box 425-0, Carthage, Mo.

280 A., 10 MI. COUNTY SEAT.

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Republic County Notes

BY D. M. HESSENFLOW

With the coming of warmer the hens have begun to do their bit and we are gathering from 3 to 4 dozen eggs a day now. They had not laid a dozen of eggs all winter until about three weeks ago when we put them on a regular system of feeding. Many articles have been written concerning the different methods of feeding and management of hens if they are to produce winter eggs. There is no best method. To get a full egg basket one should adopt a regular system of feeding and adhere to it consistently.

I never realized the value of consistent feeding until I made up my American.

mind to try it. I built a self-feeder in which I feed a dry mash consisting of equal parts by weight of wheat bran, shorts, cornmeal, corn gluten and alfalfa meal, to 3 parts meat meal and crushed charcoal. This mash should be kept before the birds at all times. which can be done only with the use of the self-feeder. Water should be kept before them also and if the weather is cold give warm water often. I have a self-heating water fountain that overcomes the water question in cold weather.

One cold windy day last week we made an attempt at oiling the harness with the result that one full set was oiled and the hames painted, which improves the looks as well as the lasting qualities. This is the first time the set has been oiled since I owned it, which has been three years, and the newness had worn off pretty badly in places. We used the ready prepared oil, applying it with a paint brush freely. If a good shine is desired it can be had by adding a small quantity of ivory black to the oil. After the harness is dry take a rag and rub it but do not use lamp black, as it will rub off on the hands and clothing.

Cheap Lime for the Farm

BY GEORGE CASSEL

My brother and I decided last year that it was necessary to get some lime into the soil on one of our farms. This looked easy as we had a large lime-stone cliff about a mile from the place where we needed the lime. We started to get this rock out to make a lime kiln and burn the lime ourselves, but we soon found ourselves up against Mother Nature's plan for the rock to stay put. We could not quarry the rock economically. At last I remembered that I had heard of the use of dynamite for this work.

I bought a case of 50 per cent straight nitroglycerine dynamite and proceeded to try out my theory. The proceeded to try out my theory. results were just what we wished for after we had drilled holes in the cliff and loaded them they were fired and a large amount of the rock thrown down. We then found some of the boulders too large to handle and again the giant explosive was called in. A stick placed on the top of a large boulder and covered with mud produced the desired result. In this way, we also exploded our neighbors' excuse for not applying lime. They had said that it was cheaper to do without than to quarry the stone and burn it. We demonstrated that getting the rock in small enough pieces to build the kila was the easiest part of the whole job.

I am now keeping a stock of dynamite at my home simply to accommodate my neighbors who said that they could not get the explosive. A little experimenting also convinced me that was a good preventive of temper to know that whenever I broke a plow or mowing machine on an old stump that there was a case of something at the barn that would get the stump and give me the chance to put the cussing usually resorted to under the circumstances to a more practicable use.

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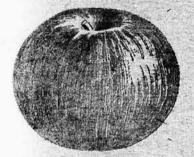
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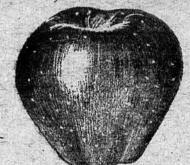
"Does your son who is abroad with the troops understand French?"

"Oh, yes, but he says the people he meets there don't seem to."—Baltimore

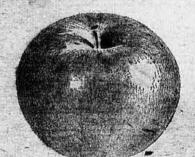
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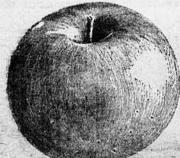


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is made possible by an arrangement which we have made with one of the most reliable most progressive nursery concerns in Middle West. These trees are true to healthy, vigorous and this dependconcern guarantees that you can rest

assured that you will get exactly the set of trees as described in this page.

Description of Varieties

NORTHWESTERN GREENING. This variety was originated in Wisconsin some years ago. It is a splendid, vigorous, hardy grower. The fruit itself is large and sometimes exceptionally large. It is green as the name implies, but when ripe, it becomes a yellowish green. The flesh is yellow—fine grained and firm. The flavor is a good sub-acid very smooth and attractive to the good sub-acid, very smooth and attractive to the palate. The Northwestern Greening is one of the best growers we have and is prolific and bears regularly when mature.

JONATHAN. A brilliant flashing red apple with a spicy, rich acidity that has made it a prime favorite with all lovers of an acid apple. The favorite with all lovers of an acid apple. The tree is adapted to many sections. Orchards of them are found in the northeast, south and west and they always pay. The Jonathan is a splendid family sort. For many years, Jonathans have been the standard of quality by which other sorts have been gauged.

WEALTHY. This variety is an enduring monument to its originator, M. Gideon, of Minnesota. The fruit is large and is a beautiful light yellow shade with crimson stripes and splashes. The flesh is white, often stained with red. The Weelthy Apple is splendid as a dessert or cook-Wealthy Apple is splendid as a dessert or cooking apple. This variety is especially adapted to home gardens, as well as for commercial orch-

THE DELICIOUS is first of all a quality apple. It hardly needs an introduction to anyone who knows anything about Apple Trees. Many authorities claim that the Delicious has no peer, that it is the finest apple grown. The yields are excellent and as the trees grow older, they bear more and even larger fruit. Almost all of the prominent apple growers have a good supply of the Delicious variety in their orchards. Higher prices are being paid for this variety than for most any other apple. They frequently sell on the fruit stands in cities at from

All for only

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honest enforcement of those we have; a permanent peace alliance for the total abolition of war; a square deal to everybody irrespective of condition race color or condition, race, color or politics.

When to Plant

Planting season is not regulated by date or by planter's location. This Nursery's method of growing, packing and shipping trees assures arrival of trees in proper planting conditions. Annually they ship thousands of trees to planters in the South, weeks after the season has opened, and the trees are planted with entire success.

Arrival of Trees

When your ten trees have arrived, unpack them immediately, carefully shaking out all of the packing and if possible, plant them at once. Full directions as to just how to plant with pest success will be sent you.



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EGGS FOR HATCHING S. C. REDS. WRITE at once. Mrs. B. Anderson, Blue Mound, Kan. R. C. RED EGGS, FARM RANGE, 50 \$3.50, 100 \$6.00. Mrs. Geo. Lobaugh, Greenleaf,

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PUREBRED BOURBON REDS. EGGS 11\$3.25. Mrs. Forrest Peckenpaugh, Lake
City, Kan.

SINGLE COMB RHODE ISLAND RED
eggs, fifty-\$3.50; 100, \$6.00. Chas, Olsen,
Alta Vista, Kan.

SINGLE COMB RHODE ISLAND RED
cockerels \$5.00 each. E. H. Durham,
St. John, Kansas.

cockerels \$5.00 each. E. H. Durham, St. John, Kansas.

SINGLE COMB REDS BHAT ARE RED. eggs fifteen \$1.00; hundred \$5.00. Mrs. F. Meyer, Garnett, Kan.

SINGLE COMB RHODE ISLAND RED cockerels. Extra fine, \$2 to \$5. Mrs. C. A. Finney, Ogden. Han.

LUNCEFORD'S S. C. QUALITY REDS. EGGS. \$7 hundred. Pens \$4 to \$10 fifteen. Sadie Lunceford, Mapleton, Kan.

ROSE COMB REDS—GOOD WINTER LAYers. Eggs \$1.25 per 15, \$6.00 per 100. J. O. Spencer, Hesston, Kansas.

ROSE COMB REDS. COCKERELS \$2 AND \$3.50 each, eggs \$3 per 15. Mrs. Frank Murphy, R. I. Mankato, Kan.

PURE ROSE COMB REDS. ROSE COMB Brown Leghorn eggs \$1.50, fifteen. Everett Brubaker, Wichita, Kan., R. 3.

SINGLE COMB REDS. PEN EGGS \$5.00, \$3.00, \$2.00, range \$5.00 one hundred. J. A. Bockenstette, Fairview, Kan.

S. C. R. I. RED COCKERELS FOR SALE.

A. Bockenstette, Fairview, Kan.

S. C. R.-I. RED COCKERELS FOR SALE.

3 at \$10.00 each; 1 for \$5.00; 1 for \$2.00.

F. L. Blaine, Hutchinson, Kan.

RED, VELVETY, DARK, BOTH, COMBS,
Eggs 15-\$1.25; 100-\$7.50. Mrs, Forrest
Peckenpaugh, Lake City, Kan.

Eggs 10-91.13, 100-91.30. Mrs. Poffest Peckenpaugh, Lake City, Kan. BRAMAN POULTRY YARD, S. C. RHODE Island Red eggs for sale, \$2 a setting of 17. S. B. Rawlings, Braman, Okla. R. C. RHODE ISLAND WHITE EGGS FROM large excellent layers 15, \$1.09; 100, \$5.00. Mrs. Frank Sloman, Effingham, Kan. SINGLE COMB RED CHIX 12½C EACH. Eggs 15-\$1.25, 100-\$5.00. Choice farm range. Lelah Works, Humboldt, Kan. LARGE DARK RICH EVEN RED R. C. Reds. 15 eggs \$1.50; 30-\$2.50. Nora Luthye, North Topeka, Kan, R. No. 6. LARGE, DEEP BRILLIANT ROSE COMB

Luthye, North Topeka, Kan., R. No. 6.

LARGE, DEEP BRILLIANT ROSE COMB
Reds, Long back, low tail, yellow legs.
Guaranteed. Highland Farm, Hedrick, Ia.
ROSE COMB RHODE ISLAND RED COCKers 2 dollars each or 7 for 12 dollars, Mrs.
M. S. Fridley, Wamego, Kan., R. No. 1.
PUREBRED ROSE COMB RHODE ISLAND
Reds. Ergs for hatching \$1.25 for 15: \$6

PUREBRED ROSE COMB RHODE ISLAND Reds. Eggs for hatching \$1.25 for 15; \$6 for 100, Mrs L. F. Hinson, Stockdale, Kan, EGGS—VELVETY, DARK, ROSE COMB Reds, correct size, shape, color. Layers not loafers. 15, \$1.50, 100-\$6. Charles Sigle, Lucas. Kan.

ROSE COMB R. I. RED EGGS FROM extra large, great laying stock, \$1.50 for 15, \$7.50 for 100. Mrs. A. J. Meholson, Manhatan, Kan.

CHOICE SINGLE COMB RHODE ISLAND Reds, good winter layers. Eggs \$1.50 set-ting; \$6.00 hundred. Mrs. Claude Landon, Eudora, Kan.

THOROUGHBRED ROSE COMBRED EGGS.

Free range \$5 per 100; choice yard \$1.50 per 15 or \$6.00 per 100. Mrs. C. B. Johnson, Garrison, Kan.

SINGLE COMB REDS. WINTER LAYERS.
Eggs. 15, \$1.00; 50, \$3.00; 100, \$5.00. Choice
farm range. Mrs. Carrie Cooper, Lawrence,
Kall, Route No. 2.
R. C. RED EGGS FROM GOOD COLORED.

farm range. Mrs. Carrie Cooper, Lawrence, Kan., Route No. 2.

R. C. RED EGGS FROM GOOD COLORED, good winter layers, \$1.50 per 15. \$6 per 100. Mrs. M. S. Corr. Cedar Knoll Poultry Farm, Soldier, Kan.

MEIER'S SINGLE COMB REDS. FIRST prize winners at Chicago, the dark red kind. Eggs \$6 per 100; \$3.25 per 50. H. A. Meier. Abliene, Kan.

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ROSE COMB REDS. ADE YEARLING hens, Harris strain. Eggs \$1.50-15; \$3.50-50; \$6.00-100. Janes A. Harris, Latham Poultry Farm. Latham, Kan.

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TROUGHTON'S S. C. REDS, AN EXHIBI-tion egg laying strain. None better, Cat-alog free. Cockerels \$2.50 and higher. Thos: D. Troughton. Wetmore, Kan.

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ROSE COMB RED EGGS. 245 EGG STRAIN
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Ribbon State Show winners \$4 per 15. Range
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EGGS FROM SELECTED SINGLE COMB
R. I. Reds (Mahood strain) also Rose Comb
Red eggs from heavy winter layers, premium
stock, pen and range. Write Mrs. E. S.
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ROSE COMB REDS. BLOOD LINES OF
San Francisco and Chicago winners. Pen
eggs \$2.50 to \$5.00. Good range flock. Get
our prices before you order. Mrs. Alice
Clinkenbeard, Wetmore, Kan.

eggs \$2.50 to \$5.00. Good range flock. Get our prices before you order. Mrs. Alice Clinkenbeard, Wetmore, Kan.

100 ROSE COMB RHODE ISLAND RED cockerels and cocks. Sired by roosters costing \$15.00 to \$50.00. \$3.50, \$5.00, \$7.50, \$10.00 each and up. 1918 matings best ever. W. R. Husten, Americus, Kan.

SAFE ARRIVAL AND FERTILITY GUARanteed on hatching eggs, from big boned, good colored, heavy laying strain both rombs. Heds. at peace prices. Mating list free. H. A. Sibley, Lawrence, Kan.

ROSE COMB REDS—Fine YARDS, STRONG in the blood of my Missouri and Kansas State show winners. Eggs \$3 to \$5 per 15. Choice farm range flocks, \$6 per 100. Fire catalog. Mrs. Clyde Meyers, Fredonia, Kan. R. C. R. I. REDS EXCLUSIVE. EGGS FOR sale. Pen 1 headed by cockerel scoring. \$3, mated to my best hens. \$5.00, 15. Pen 2 headed by fine cockerel from 245 egg. strain, \$3.00, 15. Utility pen \$2, 15. Mrs. W. H. Smith, Raymond, Kan.

COWDREY'S CHAMPION ROSE COMB Redoor. Kansas City, St. Joseph, Topeka, Kansas, Mrs. Simmons' Rose Comb Redo of Kansas. True to type and color. Kansas City, St. Joseph, Topeka, Kansas, Mrs. Simmons' Rose Comb Rhode is and Kansas Federation winners. Send for mating list. Eggs ready for delivery. J. R. Cowdrey, R. 7, Topeka, Kansas, Mrs. Simmons' Rose Comb Rhode Island Reds win in Oklahoma, Kansas and Missouri. Dark velvety Reds. 15 eggs. \$1.50; 100-\$3.00. Special matings \$5.00 and \$3.50 per 15 eggs. Satisfaction guaranteed. Redview Poultry Farm, R. No. 3, Erie, Kan.

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BOURBON RED TOMS. J. E. VAN PELT, Great Bend, Kan.

Great Bend, Kan.

THOROUGHBRED BOURBON RED TOMS, \$8. D. Knevels, Natoma. Kan.

BOURBON RED TURKEYS. TOMS \$6.

Hens \$4. Mrs. H. Passmore, Wayne, Kan.

Hens \$4. Mrs. H. Passmore, Wayne, Kan. CHOICE MAMMOTH BRONZE 26 TO 30 Ib. toms \$10. 16 to 20 Ib. hens \$7. Laura Ullom, Lamar, Colo.
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THOROUGHBRED MAMMOTH BRONZE turkey eggs from hens weighing 25 pounds, tom 49. Eggs, 50 cents each. Maggie Burch, Oyer, Mo.

tom 49. Eggs, 50 cents each. Margie Burch, Oyer, Mo. BOURBON RED TURKEYS, FOURTEEN years a breeder of the best. Eggs from choicest matings, \$5 and \$4-per II. Free catalog. Mrs. Clyde Meyers, Fredonia, Kan.

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WHITE WYANDOTTES. STOCK AND EGGS.
Glnettel & Glnette, Florence, Kin.
SILVER WYANDOTTE COCKERELS AND
eggs. Chas. Martin, Fredonia, Kan.

eggs. Chas. Martin, Fredonia, Kan.
WHITE WYANDOTTE EGGS, 15-\$1.50; 100\$6.00. H. O. Collins, Fontama, Kan.
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WHITE WYANDOTTE EGGS, FISHEL
strain, \$1.50-15. R. A. McPhef, Plains, Ks.
WHITE WYANDOTTES, RANGE EGGS,
\$4.50-106. Bertha Rogers, Garnett, Kan.
GOLDEN WYANDOTTES. COCKERELS, \$2.
Eggs 50-\$3. Vivian Anderson, R. 5. Oswego,
Kan. Kan.

PURE WHITE WYANDOTTES. LAYING strain; cockerels, eggs. Ira Ives, Liberal, Kan

WHITE WYANDOTTE EGGS \$1 PER SET-ting; \$5-100. Mrs. Geo. Rankin, Gardner, WHITE WYANDOTTE EGGS \$1.25 PER 15; \$7.00 per 100. Homer Ruth, Moundridge,

COLUMBIAN WYANDOTTE COCKERELS \$2.00. 15 eggs for \$2.00. Mrs. Janie Hunt, Lebo. Kan. WOOD'S SILVER WYANDOTTES PLEASE, ask for prices and guarantee. Earl Wood, Grainfield, Kan.

Grainfield, Kan.

FOR SALE—BUFF AND PARTRIDGE Wyandotte cockerels \$2.00 each. F. L. Smith, Beloit, Kan.

PURE BRED WHITE WYANDOTTE COCKerels for sale, \$2.50 a piece, Maude Wundelly, Redfield, Kan.

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WHITE WYANDOTTES, BRED FOR EGGS.
Eggs \$1.50-15. \$7.00-100 prepaid. Dwight
Osborn, Deiphos, Kan.

R. C. WHITE WYANDOTTE EGGS \$1.50
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CHOICE GOLDEN WYANDOTTE EGGS.
Farm range \$1.50-15; \$7.00-100. Mrs. H. O.

Mott White City, Kan.

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Mott, White City. Kan. *

PURE COLUMBIAN WYANDOTTE EGGS
for hatching. Choice selected stock. Mrs.

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SILVER WYANDOTTES, PRIZE WINNERS.
Eggs \$2.00 per setting. Stock reasonable
Wm. Royer, Coffeyville, Kan.

CHOICE SILVER WYANDOTTE EGGS.
Farm range \$1.00-15; \$6.00-100. Mrs. Norman Worley, White City. Kan.

LAYER-PAYER SILVER WYANDOTTE
eggs 15, \$1.50; 100, \$7.00; fancy pen, 15.

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LAYER-PAYER SILVER WYANDOTTE eggs 15, \$1.50; 100, \$7.00; fancy pen, 15, \$3.50. Irve Wright, Clifton, Kan.

CHOICE WHITE WYANDOTTE EGGS \$2.00 per setting. Range eggs, \$5.00 per 100.

Mrs. M. E. Johnson, Humboldt, Kan.

ROSE COMB SILVER WYANDOTTE COCKerels, price \$2.00 and \$2.50 each while they last. C. E. Dieffenbaugh, Talmage, Kan.

Additional Poultry Ads. on Following Page

March

WYANDOTTES.

white Wyandotte Eggs from High scoring birds at \$2.00 per 15. Martin strain. Frank Henderson, Solomon, Kan.
COLUMBIAN WYANDOTTE COCKERELS.
Three, five and ten dollars. Eggs choice stock. Ten cents each. H. C. Rice, Durham, Kan.

WHITE WYANDOTTES, BLUE RIBBON winners, record layers. Eggs only. Cata-log free. Mrs. A. J. Higgins, Effingham,

TARBOX STRAIN OF SILVER WYAN-dottes. Eggs \$1.50 per setting, \$6.00 per 100. Henry L. Brunner, Route No. 5, Newton,

SILVER WYANDOTTES. BEST FOR beauty and profit, grand open lacing. Eggs 15, \$1.25; 100, \$6. Mrs. Ed. Bergman, Paola, Kansas.

PURB BRED WHITE WYANDOTTE EGGS \$1.00 per setting; \$4.50 per 100. Parcel post \$1.30 setting. Mrs. G. Stewart, Tampa,

ROSE COMB WHITE WYANDOTTES. Good ones. Eggs 15-\$1.50. Parcel post, Hundred \$6 not prepaid, R. M. Weaver, Harper, Kan. GOLUMBIAN WYANDOTTES FROM PRIZE winning strain. Eggs \$1.50 per 15 or \$6.00 per 106. Mrs. Wm. Heltmann, Clay Center, Ran., R. No. 3.

WHITE WYANDOTTES. TRIO WON FIRST Topeka Free Fair (Junior Department). Limited supply of eggs, \$2 per 15. Clara Edng, Idana, Kan.

Eong, Idana, Kan.

WATTLES' COLUMBIAN WYANDOTTES.
Most famous winners in the West. Eggs
\$3 and \$2 per 15. H. A. Wattles, 1149 University, Wichita, Kan.

WHITE, WYANDOTTES, EGGS FOR hatching from purebred, heavy laying flock. Fiften \$1.50; fifty \$4.00. H. W. Douglass. Lamont, Kan.

WHITE WYANDOTTE EGGS EXCELLENT laying strain. Blue ribbon winners, \$5.50 hundred; \$1.00 fifteen. Express prepaid.

Mrs. Bert Ireland, Holton, Kan.

PURE BLOOD WHITE WYANDOTTE EGGS

Mrs. Bert Ireland, Holton, Kan.

PURB BLOOD WHITE WYANDOTTE EGGS
Flock mated with fine cockerels, all pure
white Rose Comb, \$1.50-fifteen; \$3.50-fifty;
\$6.60-hundred. John H. Summer, LeRoy, Kan.
SILVER LACED WYANDOTTES. PUREbred, eggs fifteen \$1.50; hundred \$6.50. I
guarantee a 60% hatch or will duplicate
order at half price. S. B. Dressler, Lebo,
Kan.

order at half price. S. B. Dressler, Lebo, Kan.

EGGS. WHITE WYANDOTTES. LAYING strain. Utility \$1.25 fifteen, \$3.50 fifty, \$6 hundred. Pen headed by \$15 cockerel direct from Keeler, \$2 fifteen. M. M. Weaver, Newton, Kan.

EGGS FOR HATCHING FROM WHITE Wyandottes. Blue ribbon winners, extra fine, pure white, heavy layers. 15-\$1.50; 50-\$4.00; 100-\$7.00, Frank E. Mayer, Marys-ville, Kan.. R. 1.

SANDERS SILVERY WYANDOTTE S, beautiful open laced plump birds. Experienced breeder. Eggs \$1.50 per 15; \$4.00 per 50. Ralph Sanders, Springdale Stock Farm, Osage City, Kan.

JUST A FEW SETTINGS TO SPARE FROM our prize winning Silver Laced Wyandottes. Pen headed by \$25 prize winning cockerels. \$3 per 15 eggs. Order early. H. J. Olivier, Danville, Kan.

WHITE WYANDOTTE EGGS. PEN NO. 1

J. Olivier, Danville, Kan.

WHITE WYANDOTTE EGGS. PEN NO. 1
headed by Regal King direct from Canada,
\$5 for 15; No. 2 headed by Shawnee Chief,
\$2 for 15; Free range, \$1 for 15; \$6 per 100.

Mrs. J. Schubler, Minneapolis, Kan.

WHITE WYANDOTTE EGGS; "STEVEN'S
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strains. 15-\$2.00. 100-\$9.00, prepaid. Guartantee 60% hatch or duplicate order, one-half
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WHITE WYANDOTTES BRED FOR OULLE. WHITE WYANDOTTES BRED FOR QUALity and heavy egg production. 100 eggs \$6,00. 50-\$3.50. 30-\$2.50. 15-\$1.50. Extra Ohoice pen 15-\$2.50. Safe arrival and satisfaction guaranteed. Garland Johnson, Mound City, Kan.

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1949/COCKERELS, 49 VARIETIES, FREE book, Aye Bros., Blair, Neb., Box 5.
EGGS FOR HATCHING, ROSE COMB Reds, S. C. Brown Leghorns, L. D. Speenburg, Belleville, Kan.

burg, Belleville, Kan.

SINGLE COMB REDS, MAMMOTH PEKIN ducks. Stock and eggs for sale. Mrs. Jas. Stewart, Crosses. Ark.

WHITE ROCKS, ORPINGTONS, WYAN-dottes. Settings \$1.50. Chicks 20. Hines Poultry Farm, Parsons, Kan.

EGGS TWO DOLLARS SETTING. RHODE Island Reds. Buff Rocks, stock for sale. E. H. Inman, Fredonia, Kan.

Island Reds. Buff Rocks, stock for sale.
E. H. Imman, Fredonia, Kan.
WHITE ROCK COCKERELS \$3 AND UP.
White Rock eggs \$2 per 15. Bourbon Red
turkey tom. Mrs. T. A. Case, Sterling, Kan.
S. C. BUFF LEGHORN AND S. C. RHODE
Island Red eggs. Special mated pens.
Write for mating list, J. W. Boyce, Rt. No.
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LIGHT BRAHMAS AND BARRED ROCKS.
Nine yards of grand matings, Winners for
30 years. Send for mating list, free W. H.
Ward, Nickerson, Kan.
BREEDERS CHEAP ALL VARIETIES
chickens, ducks, geese, turkeys, eggs, incubators, brooders, catalogue free. Bare
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FANCY S. C. WHITE LEGHORNS AND S.
C. Rhode Island Reds. Eggs, \$1.50 for 15;
\$4 for 50; \$7 for 100. Eggs from selected
show stock. \$2.50 for 15. W. A. Dunmire,
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HATCHING EGGS: PARTRIDGE WYAN-

HATCHING EGGS: PARTRIDGE WYANdottes, Rhode Island Reds, Campines, Single Comb White, Brown, Buff, Black and Silver Leghorns, Brahmas, Langshans, Cochins, Polish, Silkies, Bantams, Free circular. Modlin's Poultry Farm, Topeka, Kan.

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EGG CASES, CHICKEN COOPS LOANED free. Prices published in Topeka Daily Capital paid by The Copes, Topeka. WANTED—500 INDIAN RUNNER DUCKS and other leading varieties of thorobred poultry, also Belgian hares. Write quick what you have, give lowest wholesale price, P. W. Frehse, Clarinda, Iowa.

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Conwell. Wetmore, Kan.

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White pigs and one brood sow. Adolph
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Percheron stallion, 1900 lbs., reasonable.
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THREE REGISTERED, SOUND BLACK Jacks. 14% and 15 hands standard, \$375 to \$475. The money making kind. Lewis.Cox, Concordia, Kan.

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FOR SALE—DAPPLE GREY PERCHERON stallion, age 7, a ton horse. Extra heavy bone. Also three registered jacks. Age 2, 6 and 8. Colts to show, Albert Jones, Penalosa, Kan.

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Sire, Financier of Mound, by Oxford Brigadier 2nd, half bro. to Oxford Wardner. J.
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Dispensing Machine for the hog lot: To
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SCOTCH COLLIE PUPPIES. CECIL Hinds, Mound Valley, Kan.

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FEMALE COLLIES, FOUR MONTHS, Fancy, \$7.50. Frank Boyriants, Scass, Fancy, \$7.50. Frank Boyriants, Scass, Fancy, \$7.50. Frank

EMALE COLLIES, FOUR MONTHS, fancy, \$7.50. Frank Barrington, Sedan, an.

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REGISTERED HEREFORD BULL, 4 YEAR old. Geo. Dawson, Clements, Karn.

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DUROCS ALL AGES, BOTH SEX, SHIPPED on approval. John Lusk, Jr., Liberal, Kan.

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PINTO BEAMS: DELIVERED YOUR STAtion ten cents per pound fifty pound lots or more. C. F. Hines, Elkhart, Kansas.

BROOM CORN—EARLY DWARF SEED IS scarce. Transportation bad. Order early. \$3 per bushel. Len Sanders, Atlanta, Kan.

PURE KANSAS SUNFLOWER SEED FOR sale, shelled and tested \$3.25 per bushel. 10 bu, lots \$3.00. Fred Carlisie, Burrton, Ks., FOR SALE—1916 REID'S YELLOW DENT corn, shelled and graded; fine condition; \$5 a bushel. McCail & Williams, Oneida, Ks. KAFIR, BLACK HULLED WHITE \$5.00 hundred pounds. Dwarf Broom Corn seed \$5.00 bushel. Fred Priebe, Elk City, Okla. SCHROCK KAFIR SEED FOR SALE BY grower. Sample and price on request, James Wilson, Box 5, Route 5, Parsons, Kan. SELECTED PURE BLACK HULL WHITE kafir heads. Stillwater germination test \$98%. 6c lb. Claude Randall, Nardin, Okla. PROGRESSIVE EVERBEARING STRAW-berry plants cheap. Satisfaction guaranteed or money back. J. N. Wright, Emporia, Kan.

GOOD SEED CORN—BOONE COUNTY
White and Calico Corn, \$2.50 per bu.
Shelled. Sacks extra. John Casey, St. Paul,
Kan.

SEED CORN. BIG IOWA SILVER MINE. Matured early. Shelled and graded, \$3.50 per bu. Sack free. John Post, Mound City, Kan.

Kan.

CHOICE SUDAN SEED FREE FROM JOHNson grass in 100 lb. lots 20c: smaller quantity 22½c. R. C. Obrecht, R. No. 28, Topeka, Kan.

YELLOW SWEET CLOVER 20C LB., SORghum cane 10c lb., Sudan grass 20c lb.,
all recleaned and gradød. Zlatnik Bros.,
Delia. Kan.

SEED CORN—CHOICE WHITE, SELECTED
and hand shelled. For particulars address
G. H. Wittram, 840 S. Judson St., Fort
Scott, Kan.

SEED CORN: BOONE COUNTY WHITE

Scott, Kan.

SEED CORN: BOONE COUNTY WHITE,
Reid's yellow dent, Calico corn. \$3.50
bushel. None better. Geo. Milner, Neosho
Falls, Kan.

SPRING WHEAT SEED. MARQUIS, ACclimated, recleaned, \$3 bu. F. O. B. J. W.
Shoemaker, Narka, Kan.

BOONE CO. WHITE SEED CORN, TESTED,
sacked, direct from farm \$3.50 bu. S. R.
Huddleston, Garland, Kan.

1000 BU, CHOICE REID'S YELLOW DENT seed corn. My own growing. Good and dry. Will sure grow. J. O. Southerland, Windson Mo.

dry. Wi Windsor, FOR SALE—ALFALFA; Fall River bottom grown white Kaffir; black hull cane seed; all 1917 crop. Ask for samples. A. M. Brandt, Severy. Kan.

all 1917 crop. Ask for samples. A. M. Brandt, Severy. Kan.

SEED CORN FOR SALE. BOONE COUNTY White and Calico, at \$3 per bushel, sacks furnished. Tested. F. O. B. Yates Center, Kansas. F. W. Miller.

GUARANTEED, PURE, WHITE SWEET clover seed. Our own production only. Write for free sample and price. A. L. Woodhams, Grover, Colo.

ALEXANDER'S GOLD STANDARD, IOWA Silver Mine and Champion white dent seed corn, tested, \$4,00 per bu. J. G. Dempsey, Spring Hill, Kan., R. F. 2.

FIELD AND GARDEN SEEDS DIRECT TO grower at wholesale prices. Pinto beans, Cane, Sudan, Grass, etc. Inter-State Seed Co., Box 344, Clayton, N. Mex.

SUDAN—1917 CROP GUARANTEED FREE from Johnson grass, 20c per lb; \$18 per cwt.; also best arade alfalfa seed \$7.50 per bu. H. Struebing, Winfield, Kan.

ALFALFA SEED FROM NORTHWEST Kansas, 95% pure, good germination, \$7.50 per bushel. Order early. Freight will be slow. Geo. Bowman, Logan, Kan.

SUDAN SEED—GROWN ABOVE THE Johnson grass line; recleaned, sacks free. 25 lbs. or more 25c per lb, less quantities, 36c. H. G. Mosher, Schell City, Mo.

KAFIR CORN—BLACK HULLED WHITE, dwarf, graded, well matured, \$5 per cwt.

KAFIR CORN-BLACK HULLED WHITE, dwarf, graded, well matured, \$5 per cwt. Spanish peanuts \$3 per bushel. Sacked, our track. W. R. Hutton, Cordell, Okla.

rack. W. R. Hutton, Cordeil, Okla.

CHOICE, PUREBRED KANS. SUNFLOWER seed corn. Fully guaranteed. Reference, Agricultural College. \$5 bu. Order quick. Tom R. Williams, Valley Center, Kan.

SEND \$2 AND WE WILL SEND YOU 250 Senator Dunlap and 100 Progressive Everbearing Strawberry plants (postage prepaid). Catalog free. Welch Nursery. Shenandoah, Ia. FREED'S WHITE DENT SEED CORN. A drought resistant variety, shelled and graded. \$4.50 per bu. less quantities 10 cents per lb. Frank Carlson, Concordia, Kan. FOR SALE—WHITE SILVER SKIN ONION sets, 10.000 to bushel, \$4.50 per bushel F. O. B.; bushel lots only. Reference Citizens Bank, G. C. Curtis, R. R. No. 1, Hutchinson, Kansas. gene, Topeka, Kan.

SEEDS AND NURSERIES.

DRY LAND ALFALFA SEED. DE SHON, Logan, Kansas.

FETERITA HEADS 5C LB. 50 LBS. UP. H. Moyer. Danbury, Neb.

RECLEANED WHITE SWEET CLOVER seed. Alex Spong, Chanute, Kansas.

FETERITA SEED IN HEAD 5C PER LB. C. E. Grandle, Pittsburg, Kan., R. 3.

WANTED TO BUY 100 BU. ALFALFA Seed. Ernest Rassch, Norfolk, Neb. Seed. Ernest Rassch, Strawberry Blands, Seed. Ernest Rassch, Norfolk, Neb. Seed. Erne

SEEDS AND NURSERIES.

GOOD AMBER CANE SEED \$5.00 PER BE Sacks extra. C. J. Miller, Stratton, Net. 200 BUSHELS CHOICE RED AMBER CAN seed.\ \$10 cwt.\ J. W. Holm, White Cit, Kan.

WANT CANE SEED, MILLET SUDAY
Grass, Fancy Alfalfa, Hulled-Sweet Caver, Shallu or Egyptian Wheat, Blood
Butcher and Strawberry or Calico Con
O'Bannon, Claremore, Okla.

SEED CORN: YELLOW DENT. HAS TEST.
ed 97 per ct. Price \$3.50 per bushel; 10 bg
lots \$3.25. Why miss a crop when you can
get reliable seed? Bags free. M. R. Mitchel
El Dorado Springs, Mo., R. R. 2.

KAFIR SEED, BLACK HULLED WHITE Well matured and graded, 1917 crop. to per lb. Send South for early maturing seed. Send self addressed and stamped envelope for samples. JJ. C. Lawson, Pawnee, Okt. BLACK HULLED WHITE KAFIR. 100g germination. Test at Manhattan. 3per bu. in 2 bu. lots. Order direct from this ad. (Supply Limited). (Also 50 ba cane seed). H. W. Chestnut, Kincald. Kan this ad. (Supply Limited). (Also 50 by tane seed). H. W. Chestnut, Kincaid, Kan WHIPPOORWILL OR, SPECKLED PEAR DET ON THE PROOF OF THE

Springs, Kan.

ALFALFA SEED, ALL RECLEANED, non-irrigated, home grown, at from \$8.00 to \$12.00 per bu. Write for samples and prices on white or yellow Sweet clove, Sudan, Feterita, Red or White kaffir, Sumach, Orange or Amber Cane Seed. The L. C. Adam Mer. Co., Cedar Vale, Kan.

STRAWBERRY PLANTS FOR SALE—PRO-gressive Everbearers, \$1.00, 100; \$7.54, 1,000; \$35.00, 5,000. Dunlaps, \$2.25, 1.00; \$10.00, 5,000, as long as they last. Packed F. O. B. American or Wells Fargo express. Healthy, State inspected, G. W. N. Howdea, 726 Walnut St., Lawrence, Kan.

OKLA, DWARF AND STANDARD BROOM CORN Seed, cream and red dwarf mails and dwarf kaffir \$7.00, red kafir \$3.00, Feterita \$9.00, Amber orange and red top cane \$12.00. Sudan \$26.00. All per 100 lbs. Releaned, freight prepaid. Prepaid express \$1.00 more. Claycomb Seed Store, Guymon, Okl3.

EAR SEED CORN. HILDRETH'S YELLOW
Dent heavy yielding big yellow kind large
select ears 1917 crop well matured, will
germinate 80%, will ship 100 big ears weigh
ing about 85 pounds for one bushel. This
allows surplus for testing out. \$5 bushel
crated; fifty ears \$3. B. H. Pugh, R. F. B.
No. 27, Topeka, Kansas.

WE HAVE SOME FINE WHITE, WELL
matured Kafir seed, that is native grows
and of excellent germination. It is put up
in 2 bu, sacks only, 112 bbs. each. While
it lasts we will make price of \$3.65 per bu,
on cars here, in new sacks, sacks free,
Good seed like this will be hard to get. Don't
take a chance with inferior seed. Order
this while you can get it, and know that
it is good. Brooks Wholesale Co., Ft. Scott
Kan. Kar

FOR \$1 WE WILL SEND YOU, ALL charges prepaid, 20 Apple, Pear or Apricot, or 10 Cherry, all budded trees; or 25 grapes; of 100 Asparagus; or 50 Raspberry, Blackberry or Dewberry; 150 Spring or 75 Everbearing Strawberry plants; or 50 Red Cedar of Chinese Arbor-Vitae Seedlings; or 10 transplanted 4 year old Evergreens; or six climbing Roses 2 year old, Many other bargains Catalog free, Manhattan Nursery, Manhattan, Kansas.

tan, Kansas.

WE SELL, SIMPKINS FAMOUS UDEAbearly cotton seed. Ten to fifteen days earlier than other big boil cotton. Hundred pounds more lint per acre on account of early maturity. Gins 40 per cent lint. Packed in two and half bushel sacks two dollar fifty cents per bushel f.o.b. Chickasha Okla., or two sixty-five delivered. Send noney with order to First National Bank to be paid on delivery of shipping receipt. Special prices on car tots. Hundreds of bushels sold. Testimonials from growers her on request. Phone, wire or write Baker Grain Co., Chickasha, Okla.

PATENTS.

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FOR in 1 tor no Case plow, stock Yeage

THE FARMERS MAIL AND BREEZE

LANDS.

LAND ON CROP PAYMENT PLAN. JESS.
Kisner, Garden City, Kan.

SIX THOUSAND ACRES GRASS TO LEASE
Western Oklahoma. Address G., 711 E.
Harvey, Wellington, Kan.

365 ACRES, RUNNING WATER, MAIL
route, fine improvements, Act quick.
\$3,000, Mark R. Clay, Arlington, Colo.

WELL IMPROVED 320 ACRES STEVENS,
county, Kansas, \$5000. \$3400 cash. Terms
on balance. Write owner, P. R. Pearcy,
Raten, Colo. Colo.

SALE OR LEASE: THREE RANCHES
Flagler, Colorado. Two are well imd, abundant water, free range. Address
f, Pink Stone, Flagler, Colo.
SALE OR TRADE ON REAL ESe. An up-to-date garage and machine
in small central Kansas town. Good
ion. Melli and Eckhart, Beverly, Kan. A. CLAY CO., KAN., R. NO. 1 FOR or trade 160 acres Sherman Co. resim best town in Kan. 1 pair jack coming 3 and 4 years old, eastern Kan. estern Mo. land will assume. R. J.

P-HIGHLY IMPROVED 873 ACRES.
0 acres alfalfa first bottom, 40 acres now sifalfa, 350 pasture, bal, in cult.; 300 s in wheat ½ goes. 8 room house, large water in house and corrals, Work shop hen houses. \$40 acre. A. H, Karns, er, Ford, Kan.

n, water in house and corrain, work shop, hen houses, \$40 acre. A. H. Karns, ner. Ford, Kan.

AL ESTATE MEN EVERYWHERE LIST his snap. \$2,250 hog or chicken farmiss snap. \$2,250 hog or chicken farmiss nap. \$2,250 hog or chicken farmiss nap. \$2,250 hog or chicken farmiss nap. \$2,250 hog or chicken farmiss. Sample of the same partial for a plary, and the same pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber. Few rods rall-data for apiary, and pasture and timber of the same pasture and susiness opportunities offer you can dendence: Farm lands, \$11 to \$30 acre; gated lands, \$35 to \$50; Twenty years to \$2,000 loan in improvements. Loan of \$2,000 loan in improvements. Loan of stock. Taxes average under twenty is an acre; no taxes on improvements, sonal property or live stock. Good markething the same pasture and live stock prove Special homeseekers' fare certificates, ite for free booklets, Allen Cameron, Gen-lamper, Gen-lamper, Calgary, erta.

the Railway, 14 Ninth Avenue, Calgary, take Railway, 16 Ninth Avenue, Calgary, 16 Ninth Avenue, Calgary, 17 Ninth Avenue, Calgary, 18 Ninth Railway, 18 Ninth Rail

FARMS WANTED.

E SOME CASH BUYERS FOR SAL-farms, Will deal with owners only, full description, location, and cash James P. White, New Franklin, Mo.

FOR SALE.

NE LIGHT PLANT COMPLETE.
e of David Zook, Newton, Kan.
ALE—HEDGE POSTS; CARLOTS.
Porth, Winfield, Kan.
LE SEASONED CATALPA POSTS.

BALE SEASONED CATALPA POSTS.
Brookover, Eureka, Kan.
ALE—WALNUT AND WHITE OAK
Carlots, A. I. Armstrong, R. R. No.
ompton, Kan.
RIES, BEAUTIFUL SINGERS AND
Will also buy. Mrs. Iver Christenamestown, Kan.
SALE—500 TONS NO. 1 ALFALFA
Brairie hay. Ask for prices, Severy
Elevator Co., Severy, Kan.
IGRSEPOWER GAAR SCOTT EN1 26-56 Aultman Taylor Separator,
Larson, R. No. 1, Lindsborg, Kan.

RSE POWER ENGINE, 4 ROLL der and corn grinder, good as new. Mueller, R. 1, Bx. 206, Moline, Ill. SALE—LARGE NON-IRRIGATED to for eating or seed two dollars d. Vallery Greenacre Farms, Vallery,

W 1916 BULL TRACTOR, NEVER One rebuilt 1915-Bull Tractor, good For sale cheap. Chas Daenzer, Kan.

LE—PEERLESS THRESHING RIG te. 20 H. P. eng., a 36x56 separator, at disk eng. plow. Will Milne, Lock Sedgwick, Kan.

FOR SALE—CASE THRESHING RIG, 75 horse engine, 36 id. Separator, small tractor, 2 bottom plow, Hudson 6-40 Roadster, Want larger tractor, Case 20-49 preferred.

BALE—TRICK CORWIN, KAN.

BALE TIES WHOLESALE AND RETAIL, lumber direct from mill in car lots, send itemized bills for estimate. Shingles and rubber roofing in stock at Emporia. Hall-McKee Lumber & Grain Co., Emporia, Kan.

HIGH PRICES PAID FOR FARM AND dairy products by city people. A small classified advertisement in the Topeka Daily classified advertisement produce at small cost—only one cent a word each insertion. Try it.

Fortion, Try it,

FOR SALE—25-50 AVERY TRACTOR NEW
in 1917, same as new, 12-25 Avery tractor new in 1916, best of condition, 20-40
(Case tractor with new 6 bottom Ollivier
ploy, 2 Sanders dise plows. Will take
stock as part pay on any of these, Ralph
Veager Rozel, Kan.

MALE HELP WANTED.

WANTED—GOOD HAND, \$30 AND BOARD washing done free, near town. Chas. Weede, Walton, Kan.

BLACKSMITH WANTED FOR SHOP owned by company. Steady employment year round. Garden City Sugar & Land Co., Garden City, Kan.

TANNING.

LET US TAN YOUR HIDE: COW, HORSE, or calf skins for coat or robe. Catalogue on request. The Crosby Frisian Fur Co., Rochester, N. Y.

LIVESTOCK COMMISSION MERCHANTS.

SHIP YOUR LIVE STOCK TO US—COMpetent men in all departments. Twenty years on this market. Write us about your stock. Stockers and feeders bought on orders. Market information free. Ryan Robinson Com. Co., 425 Live Stock Exchange, Kansas City Stock Yards.

ACENTS WANTED.

AGENTS WANTED—AGE 30, \$14.19 A year per \$1000; Age 35, \$16.48 a year per \$1000; age 45. \$23.75 a year per \$1000. Other ages have similar rates. Life insurance at these rates sells. Agents wanted. Illinois Bankers Life Association, Kansas Agency, 209 Winne Bidg., Wichita, Kan.

EDUCATIONAL.

KANSAS CITY BUSINESS COLLEGE. THE great business Training School of the great Southwest. For free catalog address C. T. Smith, 1029 McGee St., Kansas City, Mo. LEARN SHORTHAND BY CORRESPOND-ence. Pltmanic System. Demand for stenographers greater than supply. Virginia School of Shorthand, Box 39, Roanoke, Va.

MISCELLANEOUS.

WANTED SORGHUM MILLS, MOTOR-cycles. Fred Scitz, Sutton, Neb.

CONTAGIOUS ABORTION PREVENTED by R. Harold, Manhattan, Kansas.

THE KNIFE WEEDER, FOR LISTED corn, has never yet been equaled for saving moisture and killing weeds. Send for circulars. H. D. Clayton, Hill City, Kan.

TRACTOR FARMING AND ENGINEERING 412 pages, 175 illustrations; finest book published on this subject, \$1.80 prepaid. Send 10c for catalogs, 100,000 book bargains. McCarthy, 217 Dearborn, Chicago, Ill.

PASTURE WANTED IN KANSAS FOR grazing season of 1918. Give location, number of acres, how watered, shipping point and price. Address F. L. Merchant, 425 Livestock Exchange Bidg., Kansas City, Mo. HIGH PRICES PAID FOR FARM AND dairy products by city people. A small classified advertisement in the Topeka Daily Capital will sell your apples, potatoes, pears tomatoes and other surplus farm produce at small cost—only one cent a word each insertion. Try it.

\$1 FOR YOU. WE WILL SEND \$1 CASH to first person in each neighborhood sending us the name of a farmer from whom we can buy white sweet clover seed. Small lots allowable. Standard Seed Co., Eureka, Kan. Note we buy field seeds.

BIG WESTERN WEEKLY SIX MONTHS 25 cents. Biggest and best general home and news weekly published in the West. Review of the weekly current events by Tomments for young and old. Special offer, six months' trial subscription—twenty-six big issues—25 cents. Address Capper's Weekly, Dept. W. A.-12, Topeka, Kan.

A Normal Hay Market

(Owing to the fact that this paper necessarily is printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication.)

Hay prices at Kansas City Saturday were unchanged, with trade fairly active. Receipts included 23 cars of prairie. 13 cars of timothy, two cars of clover mixed, 76 cars of alfalfa, two cars of straw, 116 cars in all compared with 187 cars a week ago and 124

of alfalfa, two cars of straw, 116 cars in all, compared with 187 cars a week ago and 124 cars a year ago.

Total receipts last week were 919 cars, compared with 1,016 cars the week before and 764 cars a year ago.

Quotations follow: Prairic, choice, \$24.50 to \$25.00; No. 1, \$23.00 to \$24.00; No. 2, \$19.00 to \$22.50; No. 3, \$14.00 to \$18.50. Low-land prairic, \$11.00 to \$19.00. Timothy, No. 1, \$29.00 to \$22.50; No. 2, \$27.00 to \$28.50; No. 3, \$20.00 to \$29.50; No. 2, \$27.00 to \$28.50; No. 3, \$20.00 to \$26.50. Light clover mixed, \$22.00 to \$26.50. Clover, No. 1, \$25.50 to \$25.50 to \$25.50; No. 2, \$20.00 to \$25.00. Alfalfa, choice, \$31.00 to \$32.00; No. 1, \$25.50 to \$30.50; No. 2, \$20.00 to \$25.50 to \$30.50; No. 2, \$22.00 to \$25.50. Straw, \$8.50 to \$9.50. Packing hay, \$9.00 to \$13.50. Strength in carlot prices of corn at outside markets caused holders to sell slowly Saturday morning, and there was only a moderate early trade. The committee representing terminal elevators raised their bids for mixed and took a fair amount. Liberal offerings of white corn were in good definand at michanged to 2 cents lower prices. Inquiry for ear corn was good at an advance of 5 cents. No. 2 mixed corn, nominally \$1.74 to \$1.90.

at michanged to 2 cents lower prices. Inquiry for ear corn was good at an advance of 5 cents.

No. 2 mixed corn, nominally \$1.74 to \$1.90, sales \$1.80 to \$1.85; No. 3 mixed, nominally \$1.69 to \$1.72, sales \$1.69 to \$1.70; white, \$1.87 to \$1.82, No. 5 mixed, nominally \$1.83 to \$1.88; No. 4 mixed, sales \$1.58 to \$1.62; No. 5 mixed, nominally \$1.45 to \$1.64, Independent of the sales \$1.81 to \$1.62; No. 5 mixed, nominally \$1.45 to \$1.64, Independent of the sales \$1.50; No. 2 white, nominally \$2.00 to \$2.10; No. 3 white, sales \$1.55; No. 4 white, sales \$1.83 to \$1.87; No. 2 yellow, nominally \$1.83 to \$2.00, sales, choice, \$2.00; No. 3 yellow, sales \$1.63; No. 5 yellow, sales \$1.51; ear corn, sales \$1.35 to \$1.50; white \$1.60 to \$1.80. Oats were in fair demand at steady to 1c lower prices.

No. 2 white oats, nominally \$1c to \$2c. No. 3 white, sales \$90c; No. 2 mixed, nominally \$86 to \$6.46; c, sales \$8.4c; No. 2 mixed nominally \$86 to \$6.4c; c, sales \$6.4c; No. 3 red, nominally \$6.0 to \$7.4c; sales \$7.7c; No. 3 red, nominally \$6.0 to \$6.45c.

Kafir—No. 2 white, nominally \$1.75 to \$1.95; No. 3, nominally \$1.79 to \$1.77; No. 4, sales \$3.72.

Milo Maize—No. 2, nominally \$1.71 to

\$1.77; No. 3, nominally \$1.70 to \$1.75. Rye—No. 2, nominally \$2.50 to \$2.60; sales, bulkhead, \$2.50. Barley—No. 4, nominally \$1.95 to \$2.05. Bran—Nominally \$1.65 to \$2.00. Shorts—Nominally \$1.75 to \$1.95; sales, \$2.10

Shorts—Nominally \$1.75 to \$1.95; sales, \$2.10.

The receipts of hogs at Kansas City Saturday were 3,000 head, and the market was 10 to 15 cents higher. Bulk, \$16.40 to \$16.65; heavy, \$16.55 to \$16.70; packers and butchers, \$16.50 to \$16.65; light, \$16.40 to \$16.65; pigs, \$12.50 to \$15.50.

Cattle—Receipts 1.200. Market steady. Prime fed steers, \$13.00 to \$13.75; dressed beef steers, \$11.00 to \$13.00; Western steers, \$9.75 to \$12.00; Southern steers, \$7.50 to \$11.50; cows, \$7.00 to \$11.00; helters, \$8.00 to 12.00; stockets and feeders, \$7.50 to \$12.50; bulls, \$7.25 to \$10.25; calves, \$7.00 to \$12.50; bulls, \$7.25 to \$10.25; calves, \$7.00 to \$12.50; bulls, \$7.25 to \$10.25; calves, \$7.00 to \$12.50; bulls, \$7.25 to \$10.25; calves, \$7.50 to \$12.50; bulls, \$7.25 to \$10.25; calves, \$7.00 to \$12.50; stockers and feeders, \$8.00 to \$12.50; stockers and feeders, \$8.00 to \$15.85.

Horses for the Government

How farmers and stockmen may profit in the sale of horses and mules to the government, thru the elimina-tion of middlemen's profit, is explained by Governor Capper in a proclamation issued a few days ago in which he asked that Kansas supply every available animal possible. The proclamation of the proclamation tion follows:

"To Kansas Farmers and Breeders:
"The United States is now the chief source of supply of horses and mules for the allies as well as our war de-partment. About 750,000 animals are needed now for our army, and since some 47,000 are destroyed every month on the west front, this number will need to be replenished constantly. In addition, heavy and regular shipments must be made for the French and English. Artillery is the great factor in this war and it is horses that make it mobile and effective.

"The War Department has been purchasing horses and mules thru contractors but wishes to deal directly with farmers and breeders, giving them the benefit of the middleman's profit. Whether this plan is continued will depend upon the support received.

"The animals at present specially wanted are cavalry horses and wheel and lead mules.

'Cavalry horses must weigh between 950 and 1,200 pounds; must be between 15 and 16 hands high and between 6 and 10 years of age.

"Lead mules must weigh from 1,000 to 1,150 pounds, must be 15 to 15% hands high and between 5 and 10 years

"Wheel mules must weigh from 1,150 to 1,200 pounds; must be from 15% to 1614 hands high and between 5 and 10 years of age.

"For animals of good conformation, the government will pay the following

Cavalry horses

"Inspection boards have already begun work in different parts of the state. You will know when the board will be in your district by a notice in your local paper and by placards posted in prominent places, giving date and location of inspection. The board cannot make a farm to farm convass, but wishes all animals assembled at one point for inspection. A man with one horse or mule will be given just as much consideration as one with 20. Payment will be made immediately upon delivery of the animals.

"It is your patriotic duty to see that all the available horses and mules in your community are assembled at the point designated, so that the suitable ones may be selected. It is an oppor-tunity to render first aid to the gov-ernment. Your son, your brother, your neighbor's boy, perhaps even you, may be called upon to ride the horse you sell to the government; hence, be sure that you supply only the right kind of animals and those that will do real work when called upon.

"The army headquarters for the pur-chase of public animals is 410 Scarritt Arcade, Kansas City, Mo. Information

will be furnished upon request.

"Therefore I, Arthur Capper, governor of the state of Kansas, call upon all farmers and breeders thruout the state to get together and devise ways and means of rendering prompt assistance to the government in the purchase of the kind of horses and mules required. ARTHUR CAPPER,

Governor."

The more stock is exposed to cold and storms the greater will be the amount of feed required to maintain animal heat.

Even low grade stock may be made to look well if kept in good condition.



Don't Get Caught Like This! You'll need horse badly from now on. Why take risk or lay up because of lameness? Send for SAVE-THE-HORSE

THE humane remedy for lame and blemished horses. It's sold with signed Contract-Bond to refund money if it fails to cure SPAVIN, Ringbone, Thoropin and ALL Shoulder, Knee, Ankle, Hoos and Tendon Diseases, and while horse works, and I endon Diseases, and while horse works.

Our 96-page FREE BOOK is the last word in the treatment of 58 kinds of lameness. It's our 22 years experience. Expert veterinary advice, Sample Contract and BOOK—ALL FREE.

TROY CHEMICAL CO., 15 Stric Street, Singhamton, N.Y., Druggists everywhere sell Eave-The-Horse with CONTRACT, or we send by Parcel Post or Express Paid.











BRILLION TRON WORKS, Dept. 6, Brillion, Wisconsin

The Tuttle Self-Feeder and Self-Threader



Capacity 3 tons per hour. Self-threader saves 40% of the tying work. Fully guaranteed for one year, and sold on 10 days free field trial. Time allowed on part payment, or liberal

Tuttle Tractor Co., 1306 Ottawa St., Leavenworth, Kan.

Moisture Helps the Wheat

Rain or snow has fallen generally, the crop situation is brighter. Oats sowing has started in many communities. The farm labor shortage is beginning to develop.

Gray County—Dry weather continues. Some wheat is alive but the general prospect is very poor. Stock has wintered well despite the shortage of feed. Corn and other grains are so high that hogs are fed at a toss.—A. E. Alexander, March 2.

Wilson County—Snow that fell February 27 provided some stock water. Wheat fields are greening up a bit and there is more corn in shock than for many years. Help is very scarce. Cattle are in fair condition and are high—S. Canty, March 2.

high—S. Canty, March 2.

Doniphan County—We had a light shower and 2 inches of snow February 28. Wheat appears to be in good condition. The county is having many sales and everything sells well. Most of the fat hogs have been shipped to market. Roads have been passable all winter,—C. Culp, Jr., March I.

Osage County—We had a good rain February 28, but farmers still are compelled to have plenty of feed. More than the usual acreage of corn will be planted, this season. Fat hogs are scarce.—H. L. Ferris, Mar. 1.

Lyon County—A heavy rain March 2

Lyon County—A heavy rain March 2 greatly benefited wheat and grass. With moderate weather this month pasture will be ready in April. We have plenty of feed. Thousands of bushels of wheat will be saved by our recent rain—E. R. Griffith, March 3.

Jackson County—Wheat is showing green and apparently is in very good condition. There are numerous sales and everything is bringing high prices. Lots of corn has been marketed at \$1.50 to \$1.60. Hay \$20 to \$25. There is a big demand for rental farms.—F. O. Grubbs, March 2.

Biley County—Wheat secured plenty of moisture from a fine rain February 28. Many fat cattle and hogs have been sold. Not much spring work has been done. Little barley or spring wheat will be sown here, but a large acreage of oats will be planted. About the usual number of brood sows are on hand. Farmers are buying seeds for feed crops. Eggs 32c; corn § 1.50; cane seed \$7.—P. O. Hawkinson, March 2.

Morris County—Wheat has withstood the dry winter remarkably well. Oats sowing will begin March 4 if good weather continues. Ground is in fine condition to work, Seed corn is scarce and high. Mules are in demand at high prices, but horses drag. Farmers are discouraged over the hog market situation.—J. R. Henry, March 2.

Ret situation.—J. R. Henry, March 2.

Allen County—A nice rain February 27 helped the wheat that lived thru the dry winter. A large acreage of oats will be put out this spring. Little fall plowing was done so the spring work will be heavy. Nearly all fat hogs have gone to market. Cattle have been well picked over. Hay \$20; eggs 29c; butterfat 50c.—George O. Johnson. Mar. 27—J. R. Whisler, Watonga, Okla. Sale at Oklahoma City.

March 1.

Shorthorn Week, Fair Grounds, Oklahoma Shorthorn so the spring work will be heavy. Nearly all fat hogs have gone to market. Cattle have been well picked over. Hay \$20; eggs 29c; butterfat 50c.—George O. Johnson. Mar. 28—Scott & Wolsey, Watonga, Okla. Sale at Oklahoma City.

March 1.

Elk County—We had a good rain March 2 and 3. Wheat is fine. Some farmers have sowed oats. Gardens are being planted. Pasture is \$4 a head. Hogs are very scarce. Corn \$1.25; oats 80c; eggs 28c; cream 40c.—C. C. Jones, Feb. 28.

Marshall County-Farmers are ready to Marshall County—Farmers are ready to begin operations as soon as spring sets in. About the usual acreage of oats will be sown. Public sailes have been numerous. Car shortage remains about the same and a large amount of corn still is in the farmers hands. Wheat is doing nicely since a good rain February 27. Good cows \$120 to \$150; corn \$1.40 to \$1.65; oats \$5c; eggs 20c; cream 50c.—C. A. Kjellberg, March 2.

cream 50c.—C. A. Kjellberg, March 2.

Pottawatomie County—Wheat prospects have improved since a good rain and snow on February 27 and 28. We may get one-half a crop now.—S. L. Knapp, March-1.

Graham County—We are having ideal spring weather. Stock is doing nicely and we have sufficient feed. Wheat does not look promising.—C. f., Kobler, March 2.

Rearney County—A good snow fell February 27 but high winds blew it off the wheat fields. Stock is wintering well, but feed is becoming searce. No spring work has been done. Butterfat 50c; eggs 27c; no market for broomcorn.—A. M. Long, March 2.

Sheridan County—About 6 inches of wet

for broomcorn.—A. M. Long, March 2.

Sherklan County—About 6 inches of wet snow fell February 27 and the warm sun is meiting it rapidly. We look for a great improvement in the wheat, now. Livestock has wintered well. Eggs 36c: cream 52c; corn \$1.70.—R. S. Patterson, March 1.

Cloud County—Wheat was greatly benefited by a heavy snow February 27 and 28. The ground is in good condition for sowing oats. Very little disking has been done. Feed is holding out well. Some farmers report horses dying from an unknown cause. Roads are bad, seed corn is scarce.—W. H. Plumly, March 1.

Nemals County—Livestock wintered well

Nemain County—Livestock wintered well and is free of disease. Feed is plentiful. Good farm help is scarce. Numerous public saies are well attended. Wheat is in good condition in this county—C. W. Ridgway, March 2.

March 2.

Kingman County—Wheat in this county, especially on sandy soil, is doing nicely. The crop that did not come up last fall is growing well now, and with seasonable weather and a pormal amount of rainfall Kingman county will produce an average crop. Farmers have spread lots of straw on the wheat fields which has helped, too. A number of straw spreaders have been ordered, but dealers cannot get them from the factory.—H. H. Rodman, March 1.

Republic County—The county is covered.

Republic County—The county is covered with a 3-inch blanket of wet snow which will soak down to the wheat roots and liven them considerably. Some oats have been sowed. Farmers are preparing the ground for spring crops. Eggs 35c; corn \$1.35; oats 86c; butterfat 52c.—E. L. Shepard, Feb. 28.

See; butterfat 52c.—E. L. Shepard, Feb. 28,
Phillips County—A good snow which fell
last week will put the wheat in fine condition, Feed is scarce and fodder sells at 75
cents a shock. Machinery and horses sell
at good prices. Very few cattle or fiogs
are for sale. Eggs 28c; cream 47c; corn
\$1.60.—Roy Stanley, March 2.

Rooks County—Some wheat fields are
greening up while others are badly blown.
Spring work will begin as soon as the frost
is out of the ground. Some incubators have
been set.—C. O. Thomas, March 1.

Decatur County—Several good snows have

Decatur County—Several good snows have put the wheat in good condition. Perhaps 20 per cent was winter killed. Feed is becoming scarce, but stock is doing nicely. Farm sales are increasing in number. The pig crop will be light, as feed is too high in comparison with hog prices.—G. A. Jorn, March 2.

WHAT BREEDERS ARE DOING

FRANK HOWARD, Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 128
Grace St., Wichita, Kan.
John W. Johnson, N. Kansas, S. Neb. and
Ia. 820 Lincoln St., Topeka, Kan.
Jesse R. Johnson, Nebraska and Iowa, 1937
South 16th St., Lincoln, Neb.
C. H. Hay, S. E. Kan. and Missourl. 4204
Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Jacks, Jennets and Stallions.

March 14—G. M. Scott, Rea, Mo., sale at Savannah, Mo. March 20—W. J. Finley, Higginsville, Mo. Mar. 26—H. T. Hineman, Dighton, Kan. Aberdeen Angus Cattle.

Apr. 5-Wm. Palmer, Liberty, Neb. April 9-Carroll Co. Breeders' and Feeders' association, Carrollton, Mo.

Hereford Cattle.

April 2—W. I. Bowman & Co., Noss City, Kan. Sale at Hutchinson, Kan. April 5, 6—S. E. Kan. Hereford Breeder, Coffeyville, Kan., Sam'l Drybread, Elk City, Kan., Mgr. Holstein Cattle.

March 19-Standard Dairy Co., Wichitg, 20—E. J. Dixon and Chas. A. Smedley,

Mar. 20—E. J. Dixon and Chas. A. Smedley, Agra, Kan.
Mar. 26—Kansas State Holstein Breeders' salo at Topeka Fair Grounds, W. H. Mott, Sec., Herington, Kan.
Mar. 27—F. J. Searle, Oskaloosa, Kan., dis-persion. Sale at Topeka Fair Grounds. April 17—Nebraska Holstein Breeders, State Fair Grounds, Lincoln, Neb.

Polled Durham Cattle.

Mar. 26-27-28-29—H. C. McKelvie, Sale Mgr., Lincoln, Neb., sale at Omaha, Neb. April 10—T. M. Willson, Lebanon, Kan.

Shorthorn Cattle.

Shorthorn Cattle.

Mar. 16—Interstate Breeders' Association,
Hebron, Neb. M. C. McMahan, Sec.
Mar. 26-27-27-29—H. C. McKelvie, Sale Mgr.,
Lincoln, Neb., sale at Omaha, Neb.
Shorthorn Week, Fair Grounds, Oklahoma
City, Okia, Under auspices Oklahoma Shorthorn Breeders' Assn., S. B. Jackson, Mgr.,
El Reno, Okia,
Mar. 26—Breeders' Shorthorn Sale, Oklahoma
City.

City.

March 30—Southwest: Missouri Shorthorn
Breeders' Association Sale at Springfield,
Mo. T. A. Ewing, Morrisville, Mo., Sale
Manager.

April 2—Blank Bros. & Kleen, Franklin,
Neb. Sale at Hastings, Neb.

Apr. 3-4—Highline Shorthorn Breeders' Association, Farnam, Neb. E. W. Crossgrove,
Mgr.

Mgr. April 5, 6-S. E. Kan. Shorthorn Breeder, Coffeyville, Kan., H. M. Hill, Lafontaine,

Kan., Mgr.

April 6—Thomas Andrews, Cambridge, Neb., and A. C. Shellenberger, Alma, Neb. Sale at Cambridge.

April 25—Richard Foenigk, Morganville, Kan. April 25—Richard Roenigh, Morganville, Kan., at Clay Center, Kan.

Duroc Jersey Hogs.

Mar. 18—Geo. Briggs & Sons, Cas, Neb. Mar. 19—Robt. E. Steele, Falis City, Neb. Apr. 24—Laptad Stock Farm, Lawrence, Kan. Poland China Hogs.

March 15—H. E. Myers, Gardner, Kan. April 3—Ross & Vlucent, Sterling, Kan. April 4—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan. April 10—T. M. Willson, Lebanon, Kan. Apr. 24—Laptad Stock Farm, Lawrence, Kan.

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

If you want a Red Polled bull worth the money asked, write or call on I, W. Poulton, Medora, Kan. Do it now.—Advertisement.

W. W. Jones Sells Duroes March 15.

W. W. Jones Sells Duroes March 15.

W. W. Jones, Clay Center, Kan., is a well known breeder of Duroe Jerseys of the very highest quality and the best of breeding, who has decided to further reduce his herd and will on March 15 hold a sale at the farm just west of town. He will sell nine sows that will farrow soon after the sale or will be sold with litters. Also nine fall gilts will be sold and a fall boar. The breeding is of the most popular blood lines and every animal sold is a real attraction. Write-him today for the catalog. Bids may be sent to J. W. Johnson care of Mr. Jones, Clay Center. He will also sell six high grade Holstein cows that are bred to registered bulls and to freshen soon. Remember the date, March 15.—Advertisement.

Searle & Cottle's Durocs.

The well known firm of Searle & Cottle of Berryton, Kan., breeders of high class Duroc Jersey hogs, change their card announcement in this issue of Farmers Mail and Breeze, They have sold the last of their bred glits. Their offering at this time includes fall pigs of either sex. These pigs have made a nice growth. They will weigh in the neighborhood of 150 pounds and are in good condition. Searle & Cottle have the reputation of winning the lion's share of the ribbons at the Topeka Fair for the last several years. The firm is thoroly reliable and guarantees all the descriptions. The prices are always reasonable. Write them if intorested in good Durocs.—Advertisement.

Slate Sells Poland Chinas March 14.

Slate Sells Poland Chinas March 14.

D. A. Slate, Glen Elder, Kan., is a well known Poland China breeder of that place that has bred registered Poland Chinas for years. On March 14 he will sell at the J. M. Kepple farm joining town 19 choice sows, 11 of them that are registered and the rest cannot be recorded. All are good and bred for spring farrow. Included in the sale will be four September, boars that are eligible to registry and well bred and mighty desirable for either breeders or farmers needing boars for use this spring. He is also selling 15 high grade Shorthorn cows that are good milkers and fresh now. Also a few young horses. His catalog is out and ready to mail as soon as you request it. But just get ready and go to the sale and you will find everything just as represented. "Dave" Slate is well known as a breeder who is absolutely reliable and his word is as good as his bond. Write him for the catalog today.—Advertisement.

Turinskey's Duroes Averaged \$63.

Turinskey's Durocs Averaged \$63.

A. J. Turinskey's Duroc Jersey bred sow sale at Barnes, Kan., last Saturday, resulted in an average of \$63 on 44 head. \$2,775.50 was received for the 44 head. The top, number nine in the catalog, went to Col. Jesse Howell, Herkimer, Kan., at \$8. It was a very even sale and was satisfactory to Mr. Turinskey. Glen Keesecker, Washington, Kan., was as usual a good bidder on the tops and the glit offered by Mr. Turinskey for the benefit of the Red Cross, She brought \$76 and was one of the choice glits in the sale but bred a little late. The entire offering was April and May glits with the exception of a few very choice tried sows, all bred for late farrow. W. H. Schroyer, Miltonvale, Kan., was the heaviest buyer, buying 13 head on a mail order. The offering was exceptionally good and well grown and a very even bunch of young gilts,—Advertisement.

Morrill's Holstein Sale.

Last Call—Meyers's Poland Sale.

As we advertised in the last issue of the Mail and Breeze, Harry E. Meyers of Gardner, Kan., will offer you March 15, a class of sows and gilts second to none that have sold in this section this year. They are by such sires as Giant Joe, Wedd's Long King, Bridge's Bob Wonder, King of Wonders, King of Birt Defender, Long Jumbo 2nd, Giant King and Model Big Bob; and are bred for seasonable lighters to Giant Joe, Big Timm's Best, King of All 2nd and others. There are several queen of Wonders, four daughters of the great brood sow sire Wedd's Long King, some good ones by Giant Joe and Giant King, all sows and gilts are immune and we are sure that you will be highly picased with them if you come to the sale. Mail bids should be sent to C. H. Hay in care of Mr. Meyers.—Advertisement.

Morrill's Holstein Sale.

The W. O. Morrill & Son sale of registered Holstein cattle at Summerfield, Kan., last Wednesday, was well attended by a representative to of Kansas and Nebraska breeders sold for \$4,470 and averaged \$155,25. There were a number of Northern Kansas preeders who consigned one or more animals to the sale. Ira Collins of the Collins Farms, Sabetha, consigned won was not enough, but those present did not seem to be in the market for buils. It was a very fair sale and satisfactory to all concerned but much of the offering was sold below its real value as that class of Holstein cattle at Summerfield, Kan., last Wednesday, was well attended by a representative loof Kansas and Nebraska breeders. Twenty cows and helfers sold for \$4,470 and averaged \$225,50. Four buils of serviseable, averaged \$155,25. There were a number of Northern Kansas, breeders who consigned one or more animals to the sale. Ira Collins of the Collins Farms, Sabetha, consigned one or more animals to the sale. It was not enough, but those present did not every fair sale and satisfactory to all concerned but much of the offering was not enough, but those present did not every fair sale and satisfactory to all concerned b

Combination Hoistein Sale,

Hereford Sale at Hutchinson.

W. I. Bowman & Co., Ness City, Kan., will sell Herefords at auction at Hutchinson, Kansas, April 2. The offering will consist of 80 cows and heifers and 50 young bulls mostly yearling and soming two-year olds. They will also sell two carloads of yearling range bulls. These cattle are all Bowman & Co. bred and raised Herefords at meetings will be held in the rooms of the Bowman & Co. bred and raised Herefords and are by and bred to such great sires as Generous 5th, Imported Shucknail Monarch and Lawrence Fairfax. This great there of Herefords has not only stamped its effect on the whole Hereford cattle sitteffect on the whole Hereford cattle sitteffect on the whole Hereford cattle sitted at the stongest organizations of its kind in the strongest organizations of its kind in the estrongest orga

rugged big boned Bowman bulls. Please read display at this issue regarding their sale at Hutchinson, April 2. Write today for catalog mentioning Farmers Mail and Breeze.—Advertisement.

N. Kansas, S. Nebr. and Ia.

By John W. Johnson.

In reporting the combination sale of Duroc Jerseys at Clay Center, Kan., last week I failed to say the top was \$270 paid by Lester Coad fag a splendid glit consigned by Glen Keesecker. Washington, Kan, In the report of the Milton Poland Duroc Jersey sale at Sabetha, Kan., the printer made me say the top was \$30 when it should have been \$130.—Advertisement.

Meall Brothers, Cawker City, Kan., are advertising in the Farmers Mail and Breeze some, choice Scotch and Scotch topped bulls from 10 to 22 months old. They are very choice and priced right. Rods and roans. They also have for sale some choice bred cows that are real producers. They have over 100 head in their herd and must reduce it. Write them for descriptions and prices. Look up their advertisement in this issue of the Farmers Mail and Breeze.—Advertisement.

W. W. Jones Salla Durses March 15.

Holstein Dispersion March 20 E. J. Dixon, Agra, Kan., and C. Aley, Kensington, Kan., are breeders bred Holstein Prieslan cattle at spective points who have recently disperse their herds. In their big deale of both herds at the sale paville.

- BERKSHIRE HOGS.

A Few Choice Bred Berkshire Soms R. C. OBRECHT, R. 28, TOPEKA, KANSAS

HORSES.

For Sale Or Trade Registered French Priced right. D. D. HOLCOMB, CANTON

Pleasant View Stock Farm For sale: two yearling, registered Percheron stall on, well 1600 lbs.cach. Priced right. HALLOREN & CAMERILL, CHARL OF

FOR SALE OR TRADE Registered French Draft Stallion, 8 year old, weight 1850 pounds, dapple grey exta heavy bone, extra good breeder, and aux, kind disposition. Will trade for your seek J. W. LOCK, BURLINGTON, KANSAS.

Prize Winning Percherons at a bargam. 2 stallions coming 2 years old. Reg. in P. S. of A. 2 westud coits. One span of aged brood both in roal. C. H. WEMPE, Seneca, is

50—Registered Statlions—50 30 Belgians. Biggest collection in the We-Percherons and Shires. One to five years of out of imported sires and dams. Barn in

M. T. BERNARD, GRAND ISLAND, NEBRASKA For Sale-One Registered Black Percheron Stallion four year old, will make a ton horse. One mod to black lack with white points, 6 year old black breeders. R. W. MILLER, NEKOMA, KARSAS.

For Sale:One Black Percheron Stallion

six years old, a ton horse; One black Perchandra five years old. Both are registered. Both of M own raising. JOHN LORTSCHER, Fairviss, Kan

Percherons—Belgians—Shires
2, 3, 4 and 5-yr, stallions, ton and heavier; also yearlings, I can spaye 77 young registered mares in foll. One of the largest breeding herds in the world.

FRED CHANDLER, Route 7, Chariton, Iowa. Above Kan. City.

FOR SALE TWO REGISTERED STALLIONS

coming 2 years old in March. Large grov Casino breeding. One pair Registered Mar-registered of Illies Farmer's prices Cotton registered fillies. Farmer's prices. Cottonw Farm, Rock Island Highway, I Mi. west of Cla

Percheron Stallion to Trade

For Holstein cows or heffers. He bettered, black, four years old. A good write soon. ALEX C. HILL, HOPE. (Dickinson County)

For Sale: Pure Bred Percheron Stallion Bay, 7 yrs. old, weight 2000 pounds, sound extra good breeders. He has colts, comweight 1500. SAM BORK, Miltonya

Riley County Breeding

Headed by-the Grand Champion Jenn 7610 5075,
Sired by the \$10,090 Champion Carnot. Sind of help forces me to reduce my herd.

Offering for sale my old herd horse Cassin 53,
St. Louis Word's Fair.) Cayartier 94839, bis old, weight 1900 bbs., sound, 2 statilious years old and some young fittles. 2 for jacks, 1 will weigh 1200 pounds.

ED. NICKELSON, LEONARDVILLE, KAN.

WOODS BROS. CO. LINCOLN, NEBR., Imported and Home-Bre

Percherons, Belgians and Shires 75 young stallions of the three breeds—coming 2, 3 and 4, years old and a few older horses. We have never had such a collection of real drafters

ers.
Come and make your choice. Our prices, terms, and guarantee will suit

Barns opposite A. P. COON, MANAGES

HAMPSHIRE HOGS.

EGISTERED HAMPSHIRES 150 gilts and boars, all ages, Cholera immuned attention guaranteed. C. E. LOWRY, Oxford, Kan.

HOICE SPRING BOARS AND GILTS bred or open, n Lad, a son of the undefeated Messenger Hoy; also are fold fall pigs. F. T. Howell, Frankfort, Kan.

Hampshires On Approval few choice bred gilts for sale. Fall pigs, either sex, and trios, F. B. WEMPE, FRANKFORT, KAN.



SHAW'S HAMPSHIRES
200 head Messenger Boy breeding.
Bred sows and glits, service boars,
fall pigs, all-timmune, satisfaction
unranteed. WALTER SHAW, fl. 6,
Phone 3918, Berby, Kan. WICHITA, KAN.

500 HAMPSHIRES BRED ills bred to Grand Champion boars nicely e litters, healthlest and best hustlers in Will make more dollars from pasture than

SCUDDER BROS., DONIPHAN, NEBRASKA.

POLAND CHINA HOGS

POTTED POLANDS Boars large enough for the state of the st

Spotted Poland China Gilts all and spring gilts bred and open. A few good spring boars. All well Best breeding condition. Write at once.

H. McCUNE, (Clay Co.) LONGFORD, KANSAS.

pecial Prices on Some Choice Boar Pigs ery nicely spotted, heavy boned, the big type with size and quality. ARL F. SMITH, LEONARDVILLE, KAN.

AIRVIEW POLAND CHINAS 40 heavy-boned fall pigs. Can furnish pairs, ir related. Also a few serviceable boars. edigred and priced to sell.
L. WARE & SON, PAOLA, KANSAS

Townview Polands hesded by the great young boar, King Wonders Glant 1 can ship spring pigs, either sex, or young herds not de Boars-ready for service. Bred glits. Prices and are right. Chas. E. Greene, Peabody, Kansas

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AGER

FORTY BIG TYPE BOARS rty big husky spring boars, sired by Illustrator 2nd
G. M.'s Defender, G. M.'s Crimson Wonder, C. W.
ain Jr., Great Wonder and Critic D. These are
m big mature sows. Immunized. Priced to sell.
M. SHEPHERD,

ERHARTS' BIG POLANDS

A few September and October boars and choice spring pigs either sex out of seme of our best herd sows and sired by the grand champion Big Hadley Jr. and Columbus Defender, first in class at Topicka State Fair and second in futurity class at Nebraska State Fair, Priced right, quality considered.

A. J. ERHART & SONS, Ness City, Kan.

50 BRED POLAND CHINA SOWS AND GILTS

100 fall pigs, either sex, at private sale. Best of Big Type breeding.

PLAINVIEW HOG AND SEED FARM, Frank J. Rist, Prop. Humboldt, Nebraska.



and gilts sired by Hercules 2d and Grandview Wonder. 75 fall pigs for sale, in pairs and trios not related. (Picture of Hercules 2d.)

ANDREW KOSAR, DELPHOS, KAN.

standing spring yearling son of the Bob Wonder now at head of herd. first in Junior Yearling class at and second at the National Swine Omaha, against the world. holce spring boars priced for quick ite your wants today.

V. O. Johnson, Aulne, Kan.

Engleman's POLANDS

that the bree I have decided not to hold a sale and am offering at private treaty 25 of the best bred gilts in the southwest. Every one an outstanding individual and immune. They are bred to

Buster King by Giant Buster. Blackhawk by Storey's A Wonder. Chief Model by Chief Leader.

We are pricing these gilts at about one half of what you would bay for them in a sale. Write for prices. We guarantee satisfaction or your money back.

ENGLEMAN STOCK FARMS, Fredonia, Kans.

sington, Kan., March 20, they will offer 45 head of purebred cattle, 31 of them registered and the other 14 cannot be registered because the papers are not procurable. Of the 31 that are now registered, seven are cows, all giving milk but one and she will be fresh soon, seven two-year-old heifers just fresh or to be fresh soon, five yearling heifers fresh hext September and October. There will be 12 calves in all, eight heifers and four bulls. Sixteen of these registered cattle are by a splendid grandson of King of Pontiacs. The balance of them are closely related to De Kol 2nd's Butter Boy 3rd and Sarcastic Lad. The sale will be held in a comfortable sale barn and the catalogs are ready to mail now. Address either E. J. Dixon, Agra, Kan., or C. A. Smedley, Kensington, Kan., or W. H. Mott, Herington, Kan., who will manage the sale,—Advertisement.

\$400 Top on Neff's Holsteins.

\$400 Top on Neff's Holsteins.

The dispersion sale of Warren S. Neff's Holsteins at Gien Elder, Kan., last Monday was highly satisfactory. The herd bull, which was the big attraction was not sold, owing to the fact that he was out of condition and Mr. Neff withdrew him from the sale. He will be offered later at private sale. Among the prominent breeders who attended was Ben Schneider, Nortonville, Kan., who is the president of the Holstein Friesian Association of Kansas. He made a short talk at the beginning of the sale which wawell received. His son, William, was with him. G. Reynolds, Kirwin, Kan.; C. L. Brown, Beloit, Kan.; Mr. Hurlock, Lincoln, Kan.; Grant Crawford, Lincoln, Kan.; Mr. Gish, Enterprise, Kan.; Mr. Koenig, Solomon, Kan.; Geo. Moorehead, Gien Elder, Kan.; Mr. Schwartz, Bancroft, Kan., and a numbe of others were the principal bidders and buyers. C. L. Brown topped the sale when he paid \$400 for the six-year-old cow. Lady Hermine Mr. Neff was well pleased with the result of the sale. Twenty-nine head of cows, helfers and calves sold for \$3,800 and averaged \$139. Only a few of them were purebreds that could be recorded. But it was a splendid offering and reflected credit on Mr. Neff. Col. Will Myers and Col. Branson of Lincoln, Neb., conducted the sale.—Advertisement.

Searle's Holstein Dispersion Sale.

Searle's Holstein Dispersion Sale.

F. J. Searle, Oskaloosa, Kan. has sold his fine dairy farm and Holstein breeding establishment at that place and will disperse his great herd of registered Holsteins at the fair grounds, Topeka, Kan., the day following the combination sale. The date of Mr. Searle's sale is Wednesday, March 27. The catalog is being compiled now and will be ready to mail by the time this soft the press. No dispersion of Holsteins in recent years should attract buyers who really want the best like this sale should do. Following as it does the big consignment sale at the Topeka fair grounds the day before (March 26) it affords a great opportunity to attend both sales with the same expense. One of the great herd bulls of the breed will be sold in this big dispersion. It is impossible to tell of all the good things in this sale in this fieldnote. You must get the catalog if you are a Holstein breeder or admirer and read the story yourself. Mr. Searle is well and favorably known all over the west because of the high glass Holsteins he has owned and developed. Poor't overlook this conportunity as dispersions of this character are rare indeed.
Write Mr. Searle at once for his big catalog
and for any other information you desire.
Look up his advertisement in this issue of
the Farmers Mail and Breeze and write him
before you forget it.—Advertisement.

Nebraska and lowa

BY JESSE R. JOHNSON.

Geo. Briggs & Sons, Clay Center, Neb. announce in this issue of the Farmers Mail and Breeze a public sale to be held March 18. Their offering will include 60 bred sows. and 5 fall boars by a son of Orion Cherry King. The sows are by Illustrator 2nd, Joe Orion 5th, Pal's Glant and Pal's Col., and are bred to Great Wonder 2nd, Joe Orion 5th, Pal's Chief and Illustrator 2nd. The hogs that will go in this sale have had the run of the farm and they are in fine breeding condition. A few of the sows will have litters by sale day, and the balance are due to farrew soon. Write today for a catalog of this sale to Geo. Briggs & Son, Clay Center, Neb., and mention Farmers Mail and Breeze.—Advertisement.

Another Big Duroc Bred Sow Sale.

Another Big Duroc Bred Sow Sale.

Robt. E. Steele, one of Nebraska's leading Duroc Jersey breeders, will hold another bred sow sale on March 19. Mr. Steele is located at Falls City and his Durocs are finding great favor over Nebraska and adjoining states. Since his sale in February Mr. Steele has picked up a few mighty choice bred gilts that will go into this sale as attractions. Among them will be a half dozen good ones sired by the great breeding boar, National Chief, and bred to the noted lowa boar, Disturber Of Idlewild. These good gilts, together with some picked from his own raising, will make up the March 19 sale. It will be a first class offering in every way and readers of this paper that are unable to attend should send bids to Jesse R. Johnson in Mr. Steele's care at Falls City, Neb.—Advertisement.

Shorthorn Sale at Hebron, Neb.

The Interstate Pure Bred Live Stock breeders will hold their first annual Shorthorn sale on Saturday, March 16. The sale will be held in the big new sale pavilion at Hebron, Neb., and everyone attending will be accorded first class treatment. The cattle consigned to this sale come from the good herds located in the counties adjoining Thayer both in Nebraska and Kansas. None of the breeders living in this locality breed large numbers but they breed good ones and this sale will afford-a good opportunity for buyers to make good selections. About 40 will be sold, mostly young bulls and heifers and some choice mature bred cows. A catalog is being issued that gives all information. It will be sent upon request. Please mention this paper when writing. Parties asking for catalog should address M. C. McMahan, secretary, Hebron Sales Pavilion Co., Hebron, Neb.—Advertisement. Shorthorn Sale at Hebron, Neb.

Bob Steele Sells Durocs March 19th.

Bob Steele Sells Durocs March 19th.

Robt. E. Steele, Falls City, Neb., one of Nebraska's foremost Duroc Jersey breeders, announces another sale to be held March 19th. Mr. Steele has already held one of the best bred sow sales of the season, but has plenty of mighty good ones left for the second sale. The offering is the same as the first one, only of course bred a trifle later and showing better. Of the 40 head selling, several will be fall yearlings, the remainder big well grown spring glits, bred for the latter part of March and April

JACKS AND JENNETS.

Stallions and Jacks 40 Percheron stallions and mares from Jacks weanlings up. 20 big boned Mammoth Jacks. 10 fine jennets at reasonable prices. Al E. Smith, Lawrence, Kan.

JACKS, JENNETS, PERCHERONS

Four good jacks, one good Percheron stal-lion, all registered or eligible. Two good jennets. Priced right. ALFRED LOCKWOOD, Mound City, Kans.

34 — MULES — 34

For Sale—34 Weanling mules. Mostly mares. Heavy bone and best quality. Carefully selected Mothers are high grade Percheron mares, Priced right. F. M. GILTNER, WINFIELD, KANSAS

Jacks, Jennys and Percherons Four good Jacks and four good Percheron Stallions of breeding age; also a number of extra good Jennys. Priced to sell. M. G. BIGHAM & SON, OZAWKIE, KAN., 20 Mi. N.E. Topeka

– Malone Bros., – **Jacks and Percherons**

We have 2 barns full of extra good jacks ranging in age from weanlings to 6 yrs. old, all over 2 yrs, well broke to serve. Several fine herd headers among them. Also jennets in foal to home bred and imported jacks. A few imported Percheron stallions royally bred. We may deal Wilso ye sall on

J. P. & M. H. MALONE, CHASE, KAN.

40 jacks and jennets, 3 to 7 years old. Big boned, young jacks, broke to service. A good assortment from which to select. Marked down to rock bottom prices.

Philip Walker moline, elk county, kansas

CHESTER WHITE AND O. I. C. HOGS.

CHESTER WHITE HOGS Five good smooth spring boars for sale. E. SMILEY, PERTH, KANSAS,

must close out my entire herd of Chester Whites If you want a good tried sow or herd boar write me at once.

Also summer boars and gilts. F. C. GOOKIN, RUSSELL, KANSAS.

For Sale—Registered Bred Chester-White Gilts G. A. STERBENZ, OSAWATOMIE, KAN.

Kansas Herd of Chester Whites

25 Fall boars for sale, extra choice. A few bred gilts still on hand. ARTHUR MOSSE, R. 5, Leavenworth, Kan.

DUROC JERSEYS.

GARRETTS' DUROCS Bred gilts special prices on Sept. male pigs with up to date breeding. R. T. & W. J. GARRETT, STEELE CITY, NEB.

Duroc Bred Gilts

Spring gilts bred to farrow this spring. Popular breeding. Farmers prices. Write at once. W. J. HARRISON, AXTELL, KANSAS

IMMUNE RECORDED DUROC GILTS
with size, bone and stretch,
guaranteed in farrow.

with size, bone and stretch, guaranteed in farrow. Shipped to you before you pay. F. C. CROCKER, BOX B, FILLEY, NEBRASKA

Wooddell's Durocs

20 March and April boars ready for service. They are sons of Crimson Wonder IV, and out of large, roomy sows of dashionable breeding. Priced for quick sale. All fmmund and guaranteed. G. B. Wooddell, Winfield, Kan.

Durocs of Size and Quality

Herd headed by Reed's Gano, first prize boar at three state fairs. Special prices on bred gilts and boars, from Golden Model and Critic Breeding. JOHN A. REED & SONS, LYONS, KANSAS.

BONNIE VIEW STOCK FARM

DUROC-JERSEYS

Fall pigs, either sex, and prize winning blood for sale at reasonable prices.

SEARLE & COTTLE, BERRYTON, KANSAS



Duroc - Jersevs Johnson Workman, Russell, - Kansas

Jones Sells On Approval

Bred Sow Sale March 15 Write For Catalog W. W. Jones, Clay Center, Kan.

TAYLOR'S WORLD BEATERS

Service boars from 700-pound show sows at a bargain. Choice weaned pigs both sex, all registered. Pigs will be prepaid to your depot.

JAMES L. TAYLOR OLEAN, Miller County,

Bancroft's Durocs

September boars and gilts guaranteed immune; also my herd boar D. O.'s Critic, No. 185197, farrowed March 2, 1915, weighs 770 pounds in every day breeding shape. Easy a 1,000-pound boar in show condition.

D. O. BANCROFT, OSBORNE, KANSAS

DUROC JERSEY HOGS.

TRUMBO'S DUROCS

Herd Boars, Constructor 187651, and Con-structor Jr. 234259. First prize boar pig Kan-sas State Fair, 1917. A few fall pigs for sale. W. W. TRUMBO, PEABODY, KANSAS

Sept. and Oct. Boars and Gilts

20 Duroc Jersey boars and gilts of top breeding. Good individuals. I want to move them before my spring pigs arrive. F. J. MOSER, GOFF, KANSAS

ABERDEEN ANGUS CATTLE.



AberdeenAngus Cattle WORKMAN Herdheaded by Louis of Viewpoint 4th, 150624, half brother
to the Champion cow of America. Johnson Workman, Russell, Kan.

15 ANGUS BULLS

10 mos. to 2 yrs. old, out of Good Straus and a fine sire Milliale Prince Albert 157143. A few cows and heifers, H. L. KNISELY & SON, Talmage, Kansas.

FIVE ANGUS BULLS

20 months old. All registered and breeding of popular blood lines of today. For prices and descriptions address E. J. SAMPSON, OAK HILL, KANSAS

Sutton Angus Farms

40 Bulls-50 Heifers Also 25 Bred Heifers Prices and descriptions by return mail.

Sutton & Wells, Russell, Kan.



Duroc Jersey Bred Sows

At Auction

Clay Center, Kan. March 15

9 bred sows or with litters

These sows carry the best blood lines of the breed and

Jones Orion Cherry King King of Cols. 6th

9 fall gilts; best of up to date breeding.

One fall boar.

Six high grade Holstein cows bred to registered bulls.

Sale at farm west edge of town AND THE THE PROPERTY OF THE PR

W.W. Jones

Clay Center, Kan.

Jas T. McCulloch, Auctioneer. J. W. Johnson, Fieldman.

Catalogs ready to mail.

SHORTHORN CATTLE.

PURE BRED DAIRY SHORTHORNS

The Shorthorn Is The Breed For You

Shorthorn steers at the International, Chicago, made the highest dressed weight percentage of any breed. 60 yearlings averaged 65.3%. breed. 60 yearlings averaged 65.3%.
Shorthorn steers were grand champions at Denver, Portland, Salt Lake City and Chicago. Shorthorn cows are making records up to 17,564 lbs. of milk and 569.7 lbs. of butter fat per year. Address Dept. G

American Shorthorn Breeders' Ass'n. 13 Dexter Park Ave., Chicago, Ill.

Scotch and Scotch Topped Bulls for sale

15 head that are 10 to 12 months old, handled to insure future usefulness. Write for prices. C. W. TAYLOR ABILENE, KAN.
(Dickinson County)

Cumberland's Knight

by Cumberland's Last sired the five young bulls from 8 to 13 months old (reds and roans) that I offer for sale. Parties met at Wamego, Kan. Phone 2218, Wamego. These bulls are right and priced right.

W. F. Ferguson, Westmoreland, Kansas.

Stunkel's Shorthorns

Scotch and Scotch Topped Herd headed by Cumberland Diamond bulls, reds and roans 3 to 24 months old, out of cows strong in the blood of Victor Orange and Star Goods. No females at present to spare. 15 miles south of Wichita on Rock Island and Sarta Fe. E. L. STUNKEL, PECK, KANSAS.

SHORTHORN BULLS

5 that are ready for service—12 to months old. 15 that are from 8 to 10 months old. rom a working herd that will cod in your herd. Prices right.

V. A. Plymot, Barnard, Kansas

Shorthorns

Young Scotch Topped Buils Cows and Heifers For Sale Scarcity of pasture compels me to sell.

Poland China Bred Gilts

A few choice big type gilts bred for spring farrow. Address R. B. DONHAM, TALMO, KANS.
(Republic County.)

50—Bulls for Sale—50 Shorthorns and Herefords

in age from 12 to 24 months. Choice selections. Prices range from \$100 up. Also Shorthorn females of different ages. Inspection invited.

Elmendale Farm, Fairbury, Nebr.

Lancaster Shorthorns Lancaster, Kan., Atchison Co.

Imported and home bred cattle. Headquarters for herd bulls. All within three miles of Lancaster. Twelve miles from Atchison. Best shipping facilities.—

Ed Hegland Some choice cows and helfers and young

K. G. Gigstad
20 bulls, 9 to 7 months old. Reds and

W. H. Graner

H. C. Graner 4 yearling bulls, also bred cows.

C. A. Scholz

Bulls from six to eleven months old, by Rosedale 367, 546 and Orange Victor 454255.

ddress these Breeders at Lancaster, Kan

farrow, mostly to the big bred boars, Sensation Wonder 2d and Creator, one of the greatest young boars going. Among the real attractions will be six spring gilts sired by the noted boar National Chief and bred to the great breeding boar Disturber of Idle Wild. Many others come direct from the best Eastern herds and would be attractions in almost any sale, plenty of good ones are by Sensation Wonder 3d. A catalog has been issued that gives all necessary information. Write for it at once and mention this paper. Parties interested and unable to attend should send bids to Jesse R. or J. W. Johnson in Mr. Steele's care at Falls City, Neb.—Advertisement.

Where Are the Horses?

Where Are the Horses?

"The expected has happened," write Woods Bros. Company, Lincoln, Neb., in reference to the draft horse situation. "The letters that are coming in response to our advertising announcements clearly indicate that farm horses are scarce and high priced. During the winter, which has been a severe one, the buyers of farm horses have waited. Feed was too high to increase the stock during the winter except where absolutely necessary. Now that there are signs—of spring they have begun their search for the needed horse power, and the supply which they had hoped to find has been greatly diminished and is now very far below their former expectations. It is needless to suggest that the agricultural activities this year and the war will require an esormous increase in horse power. Indications are that farm labor will be scarce and it will be necessary to have the maximum horse power to overcome this condition and we began buying yearlings and 2-year-old draft staflions in the Iowa. Illinois and Wisconsin breeding districts. We rejected many that measured up to the fermer acceptable standards because we recognized that the demand would be for a much better and heavier drafter than formerly. Our correspondence indicates that we were correct in sizing up the situation: We have grown these coits out and we have today 75 stallions from 2-year-olds up that we have been assured are the most remarkable collection that has ever been assembled in one establishment in the Middle Western country. We do know that they are big, they are clean, and are well-brod and wherever we have exhibited them we have won the lion's share of the prizes. We invite inspection."—Advertisement.

S. E. Kan. and Missouri

BY C. H. HAY.

The Poland China sale of Homer Souders at Chetopa, Kam, held February 26 was very satisfactory. A good local crowd was present and enough from neighboring counties to make fair competition. It was Mr. Souders first sale and like the majority of "first" sales, most all the gilts were the same breeding. This condition cut the average to a certain extent, but when you consider he sold 48 head and every one a gilt (not a tried sow in the bunch) at an average of \$1.35, it was a very good sale. Mr. Souders is an artist at developing and he will have another good bunch to sell next year.—Advertisement.

Dean's Polands Average \$145.

Dean's Polands Average \$145.

One of the very best lots of Poland Chinas that has been offered to the public of Missouri was that made by Clarence Dean of Weston at Dearborn, Mo., February 28. The offering was first class individually, they were in the very best condition, most of them showing heavy with pig and the blood lines represented were the very best. Forest Rose of Hemple, Mo., topped the sale at \$355 for Miss Big Bone by Long Big Bone, dam, Lady Model by Big Bot. She was bred to Dean's Big Timm. The average on the 42 head was \$145. Col. P. M. Gross did the selling. Mr. Dean will hold his next sale February 28, 1919—Advertisement.

Two Days Cattle Sale at Coffeyville, Kan. The Southeastern Kansas Shorthorn and Hereford breeders will hold a two days sale of registered cattle at Coffeyville, Kansas, April 5 and 6. H. M. Hill, Lafontaine, Kan., will manage the Shorthorn sale and Samuel Drybread, Elk City, Kansas, the Hereford sale. Among the Shorthorn contributors are: O. O. Massa, Edna, Kan.; Wesley Jewel, Humboldt, Kan., H. M. Hill, Lafontaine, Kan.; H. I. Gaddes, McCune, Kan.; I. L. Swiney, Independence, Kan.; V. L. Polson, Fredonia, Kan.; J. C. Thorn & Son, Altoma, Kan.; Dave Romaine, Oswego, Kau. The Hereford consignors include such-breeders as Jno. Keith, Coffey-yille, Kan.; Sam'l Drybread, Elk City, Kan.; Brown Bros., Fall River, Kan.; E. S. Rea, Coffeyville, Kan., and Commercial Land & Cattle Co., Muskogee, Okla.—Advertisement. Two Days Cattle Sale at Coffeyville, Kan.

Coburn's Hoistein Calves.

Coburn's Hoistein Calves.

All dairy products are high and will continue to be so is the universal belief. This is not entirely due to the war, but to supply and demand as well. The population of the United States is increasing much faster than the production of dairy products. This alone will keep prices where good Profits will be made. The war must also be considered. All Europe will be depicted of dairy stock, as dairy cattle as well as beef cattle have been slaughtered to feed their vast armies. The Edgewood Farms, Whitewater, Wis., O. Coburn, Mgr., will dispose of about 100 Hoistein calves this spring, both sexes, all from heavy producing cows running 7-8ths to 31-32nds/pure, at \$25 each, crated singly, and can be safely and cheaply shipped long distances. They shipped the past month these calves at 4 to 6 weeks of age to Alabama, Colorado, Louisiana, North Carolina, Texas and Utah. They are now booking orders and have some ready for immediate shipments, and it will pay you to write them.—Advertisement.

A Report on Livestock

An excellent directory of the pure-bred livestock breeders of Kansas has just been issued by the Kansas state board of agriculture. It gives the names and addresses of all breeders of purebred stock, together with much other valuable information. This re-port is known as the Kansas Livestock Breeders' Directory, and it consists of 194 pages. It can be obtained free on application to J. C. Mohler, the secre-

John D. Snyder, Hutchinson, Kan. Auground Experienced all breeds. Wire, my expense Salt Creek Valley Jas. T. McCulloch, Clay Center, L. Shorthorn Cattle

For Sale—four herd bull Red Laddle 253594, by Capt. Archer 205741. Pure Scotch and a great bull. Guaranteed a breeder. Also ten Scotch top bulls from ten to twenty months old. All good ones. No cows of heifers for sale at present.

We also offer 25 bred Poland China gilts, cighing from 260 to 275 pounds.

E. A. Cory & Sons, Talmo, Kan. (Pioneer Republic County Herd)

New Buttergask Farm SHORTHORNS

Meall Bros., Cawker City, Kan.

RED POLLED CATTLE

FOSTER'S RED POLLS Write for price on breeding stock C. E. FOSTER, R. R. 4, Eldorado, Kansas Choice Holstein Calves

Pleasant View Stock Farm Registered Red Polled cattle. For sale: a few choice young bulls, cows and helfers. HALLOREN & GAMBRILL, STAWA, RANGAS

Morrison's Red Polls Nine bull menths old, by Cremo 2nd. Cows and helters. CHAS. MORRISON & SON. Phillipeburg. Kan.

Sunnyside Red Polls

I have young bulls with quality that will please the up to date breeder. Come and see them or write for description.

T. G. McKINLEY, JUNCTION CITY, KAN.

Red Polled Bulls of Bob Evens 25387, one of the best sires of They are in good condition, 10 months old ready for service. Priced for quick sale. N

males to offer at present.

L. W. POULTON, MEDORA, KANSAS. RED POLLS

2 bulls, 15 months old, 1 herd bull, coming years old, weighing over a ton. PLEASANT VIEW STOCK FARM, Albert Haag, Route 5, Holton, Kunsas.

POLIED DURHAM CATTLE.

STANDARD POLLED DURHAM BULLS for sale. Forest standard Polled DURHAM BULLS for sale. Forest shead of the berd. G. M. HOWARD, MAMMOND, KANSAS

FOR SALE Young registered Polled Durha and Shorthern breeding cattle. J. H. HELD, STERLING, COLORADO.

POLLED DURHAM BULLS From 10 to 16 months, including 2 extra hard prospects S. R. BLACKWELDER & SONS, isabel, Pratt Co., Kan

For Sale—Good Polled Durham Bulls

at \$100 to \$150, good grades at \$75. Full blood beffers at \$100 to \$125. Also good young coming year old Jack, and an extra good one coming three at reasonable price. D. C. Baumgartner, Halstead, Kan. J. C. BANBURY & SONS



25 BULLS, \$160 TO \$500.

Roan Grange and Sultan's Price in Service. We give tuberculin test, grate and deliver at Pratt or Sawyer; furnish certificate and transfer; meet trains and return free. Phone 1602. J. C. BANBURY & SONS, PRATT, KANSAS

2 High Grade Guernsey Cow four years old, one just fresh, one spring One aged registered cow, one registered made calf, one high grade made calf five mon old. Two yearling beifers, high grade, respectively. These are all extra good six Writes DR. E. G. L. HARBOUR, Box 113,

LIVESTOCK AUCTIONEERS

GUERNSEY CATTLE

JERSEY CATTLE.

Say, Jersey Breeder

I offer five young bulls, ready for sifer saie at attractive prices. Write breeding and prices.

J. A. CRAIK, OKETO, KANSAS.

HOLSTEIN CATTLE

Holstein Calves from high grade radither sex. Pricesson Blankinship & Blankinship, Rosalia, Kam

marked, \$20 each. Safe delivery and inteed. FERNWOOD FARMS, Wauw

OAK HILL FARM'S HOLSTEIN CATH

HOME DAIRY FARM, DENISON, HAL me young buils for sale. Also females. Member S. m. of Kansas. J. M. Chestnut & Sans, Denison, Ko

Segrist & Stephenson, Holton, Kallsa Braeders exclusively of purebred, prize-winning, rest broaking Holsteins. Correspondence solicited. Adventus

HOLSTEIN CALVES, 25 hefters and 4 bulls, 15-16 pu ors, 925 each. Crated for shipment anywhere. Send each or write EDGEWOOD FARMS, WHITEWAYER, W

Registered and High Grade Holstein Practically pure bred heiser calves, six weeks old, or and delivered to your station \$25 each. Safe arriva's satisfaction guaranteed. Write us your wants. CLOVER VALLEY HOLSTEIN FARM, Whitewater, W

Braeburn Holsteins Lots of bull calves, a week old to a year outcome of 25 years' improvement.

H. B. COWLES, 508 Kar. Ave., Topeka, Kar.

REGISTERED HOLSTEINS. "Tredico is the heard with wonderful constitutions." If the libbuilt you bought had a week constitution from a forced record or a disease, sist Tredico is own 5500. TREDICK, KINGMAN, KANSAS.

Registered Holsteins

For Sale: Hamilton Pully's Lad, born Juse it 917, a show bull; Hamilton Humbold Duke, ba Jun, 23, 1917. Also some younger bull cates wi end pictures. S. E. ROSS, R. 4, 10LA, KANSAS REGISTERED HOLSTEIN BULLS

From A.R.O. cows. All our ewn breeding. Bred for milk and fat production. LILAC DAIRY FARM TOPEKA, KANSIS B. F. D. 2,

Our 3 Year Old Registered Holstein Herd Bull

for sale, and his sons, ready for service and voted they are dandles and priced to sell. G. H. 1035 BONS, INDEPENDENCE, KANSAS. R. F. D.

The Cedarlane Holstein Hem

For Sale: Our 4 yr, old grandson Korndyke, guaranteed free from Tubercut agious diseases and a sure breeder. Da 27.79, sire's dam 31.01 pounds. Must se inbreeding. Price right. Also Special bull calves from above bull. Still have cows for sale.

T. M. Ewing, Independence, Kansas

SHORTHORNS AND POLLED DURHAMS IN BIG FOUR DAY SALE

So. Omaha, Neb., Mar. 26, 27, 28, 29

150 Shorthorns, 80 bulls and 70 cows and heifers sell on the first two days. 100 Double Standard Polled Durhams, 40 bulls, and 60 females sell on the last two days.

50 calves go free with dams in the four days. Car lot buyers will find this event attractive.

Write for illustrated catalog of the sale that you are interested in to

H. C. McKelvie, Sale Mgr. Lincoln, Neb.

HEREFORD CATTLE

STUBBS FARM Offers:

Sir Clara Gem De Kol, born 9, 1916, about half black, half w perfect individual, straight broad level rump, wonderful and a world of style and quality

His dam, sire, 30 sisters and all four grand parents are in A. R. O. Price \$175 crated f. e. b. Mulvane. Guaranteed free from tuberculosis and to be a breeder. A bargain for quick sale. Address

Stubbs Farm, Mulvane, Kansas

HEREFORD CATTLE.

Spring Creek Smith Center, Kansas III Old Established Herd SPECIAL BULL OFFER:

Two big coming two year old bulls. Six Younger bulls that will do for light service this season.

tary of the board, state house, Topeka. S.D. Seever, Smith Center, Kansas



1887. 1917.

Blu 450-

We start Bred Bred Bred Bush. C Price \$2 tubercul

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ULLS

Blue Ribbon Holsteins and a registered bull 4326. 450—Holsteins-Cows, Heifers and Bulls—450

We sell dealers in Kansas, Oklahoma and Texas. Why not sell direct to you? Fresh Cows, 100 Springing Cows, 100 Springing Heifers, 100 Open Heifers, 40 Pure d Bulls, all ages, many with A. R. O. breeding. Bring your dairy expert if you h. Calves well marked, high grade, either Heifers or Bulls, from 1 to 6 weeks old. a \$25.00 delivered to any express office in Kansas. We lovite you to our farms. Come to the fountain. We lead, others follow. Herd reculin tested and every animal sold under a positive guarantee.

50—REGISTERED COWS AND HEIFERS—50-

Some fresh, others fresh soon. Many with A. R. O. records. All ages from 6 weeks to 5 years old. Remember we have one of the Best Bulls in the World, Fairmont Johanna Pietertic 78903. A calf from him is a starter on the road to prosperity.

We want to reduce our herd to 250 head on account of room and will make very attractive price on either pure bred or grade stuff for 30 days only.

LEE BROS. & COOK, Harveyville, Wabaunsee County, Kansas wire, Phone, or write when you are coming.

Special Holstein Bargains For 60 Days

70 extra choice, high grade, heavy springing heifers to freshen in January and February.
50 choice, high grade heifers, (long yearlings), bred to my herd bull whose sister holds the world's record for milk production for a two-year-old.

Choice registered being the conditions of th

year-old.

Choice, registered heifers sired by a 40-pound bull and bred to a 40-pound bull. A few young bulls with A. R. O. backing for sale. Many of them old enough for service. Address

M. A. Anderson, Hope, Dickinson Co., Kan.

Note: Hope is on the Main line Missouri Pacific, Strong City branch of the Santa Fe and only 8 miles from Herington on the main line of the Rock Island.

M. E. Peek, Jr. M. E. Peck, Sr. M. E. PECK & SON

Oakwood Dairy Farm Holsteins-Special Feb. Prices

On 50 cows to freshen between now and March first. These cows, many of them, have given milk all summer, from 40 to 50 pounds per day. They are right every way.

60 two-year-old heifers to freshen between now and April first. We mean just what this says. If you want Holstein cows and heifers of the right kind write us at once.

We like to know where you saw our advertisement. Address

M. E. Peck & Son, Salina, Kan.

The Maplewood Consignment of Holsteins at The Breeders' sale at Topeka on March 28th will include Four Beautiful Baughters of that Greatest of Kansas Bulls. Canary Butter Boy King, one granddaughter of King of the Pontiacs from a 20 pound dam—a handsome lot of heifers. Come to the sale prepared to buy the lot for a foundation heid and stay until you get them.

Four of them bred to the Junior Herd sire of Maplewood, Duke Johanna Beets, who has a twenty-five pound dam and who has two thirty pound daughters, one of which is a full sister to our bull.

What will heifers from Canary Butter Boy King bred to a bull-like Duke Johanna Beets be worth? Your bids will be the answer.

MOTT & SEABORN, HERINGTON, KANSAS

50 Registered Holsteins At Auction, Tuesday, March 19

Included in the sale are 30 cows and heifers of milking age, 10 yearling ellers, 7 open heifers and heifer calves, 3 yearling bulls.

All females to be sold are bred by Sir Johanna De Kol 18th, 64143 who eighs 2500 pounds. He has 6 producing sons and 11 A. R. O. daughters.

STANDARD DAIRY CO, Walnut frove, Wichita, Kansas 1 P. M. starp. Auctionders, Newcom and Temple, Wichita, Kansas. Mark the date, March 19th. One mile north of city.

65 Head—Geo. Briggs & Son—65 Head At farm near Clay Center and Fairfield, Neb., March 18

60 bred sows by Illustrator 2nd, Joe Orion 5th, Pal's Giant and Pal's Chief. Bred to Great Wonder 2nd, Joe Orion 5th, Pal's Giant, Pal's Chief and Illustrator 2nd.

5 fall boars by a son of Orion Cherry King.

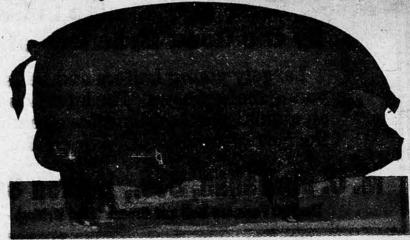
Not a sow in the sale that will not make big money for the man who buys her.

Write today for catalog and plan to attend this sale. Address

6eo. Briggs & Son, Clay Center, Nebraska

Steele Offers Another Great **Bunch of Duroc-Jersey Bred Sows**

Sale Pavilion Falls City, Neb., Tuesday, Mar. 19th



40 Head, just as well bred and the same kind of individuals that we always sell Some fall gilts. Remainder choice spring gilts.

Attractions—6 head sired by National Chief bred to Disturber of Idlewild.

As much choice new Eastern breeding as has gone into any sale this winter. Many sired by our great breeding boar SENSATION WONDER 2nd. A big per cent bred to CREATOR, one of the most promising sires to be found in the west. The catalog tells it all. Write new for it and mention this paper.

Robt. E. Steele, Falls City, Nebraska

Auct. Col. W. M. Putman. Jesse R. Johnson will represent this paper. Send him all bids in my care.

Poland China Sows High Grade Shorthorn Cows

Public Sale, Glen Elder, Kansas

Thursday, March 14th, 1918

19 choice Poland China bred sows, 11 that can be recorded and the rest not eligible to registry but otherwise equally as choice. Everything bred to farrow this spring. Four young September boars eligible to

registry.

15 High grade Shorthorn cows that are fresh now. One coming 215 High grade Shorthorn cows that are fresh now. One coming 2year-old filly, two coming year-old mare colts, one 3-year-old gelding, one 2-year-old mare mule. Catalogs ready to mail. Address

D. A. Slate, Glen Elder, Kansas Will Myers, Auctioneer.

We Are Offering Bargains in Yearling Bulls For the Next Thirty Days

Can Also Price You Several Cows and Heffers Reasonable ROSSVILLE, KANSAS HIGGINBOTHAM BROTHERS.

and more information on our sale of pure bred and high grade Holsteins, to be held some time in April.

Sale to include all ages, from calves to mature animals in females. Also some good young bulls.

Sale to be held on Grand View Farm, the new home of Eshel-

A. L. Eshelman, Abilene, Kansas

Interstate Shorthorn Breeders Sale

Sale Pavilion, Hebron, Neb., Saturday, March 16, 1918

40 HEAD

Nicely Bred and Choice Individuals Consigned by the Good Breeders of This Locality

Largely young heifers and bulls with a few choice young mature cows. The intention is to make this sale an annual event and parties attending will be assured the best of treatment. For catalog address



M. C. McMahan, Sec., Hebron Sales Pavilion Company, Hebron, Neb.

Mention Farmers Mail and Breeze When Writing. Col. H. S. Duncan, Auctioneer. Jesse R. Johnson, Fieldman

Grand Dispersion Sale of Two Pure Bred Holstein-Friesian Herds



Two foundation herds, closely culled and carefully bought and reserved. A complete dispersion of both herds at

Kensington, Kan., Wednesday, March 20th

45 Head in the sale

All pure bred. 31 are registered and 14 are purebreds with which no papers can be furnished.

The 31 registered cattle consist of 7 cows, three to nine years old, all giving milk but one and she will be fresh in March. Seven two year old heifers, just fresh or to freshen soon. Five yearling heifers to be fresh in September and October. 12 calves, four bulls and eight heifers. 16 of this number are by a grandson of King of the Pontiacs. The rest are closely related to De Kol 2nd's Butter Boy 3rd and Sarcastic Lad. The pure bred cattle not registered are of the same breeding. Catalog ready to mail. Address,

E. J. Dixon, Agra, Kan., or C. A. Smedley, Kensington, Kan. W. H. Mott, Herington, Kan., Sales Mgr.

Auctioneers: Jas. T. McCulloch, Clay Center, Kan.; W. Mendenhall, Oronoque, Kan.; L. C. Hopkins, Phillipsburg, Kan.; J. W. Johnson, Fieldman.



Roan's Clover Leaf Valley Farm Sale

20 Mammoth Jacks

15 Jennets

La Plata, Mo., Friday, March 29

MO. BOB, a 4-year-old by Mo. King, sire grand champion mules Missouri State Fair 1914-15-16, heads a great string of serviceable age jacks. All good colors, heavy bone, good bodies and ready for service. All carry Roan's guarantee. Col. Gross, auctioneer. Send for illustrated catalog. Address, mentioning this paper.

G. C. ROAN, ETHEL, MISSOURI

Big Missouri Jack Sale

Savannah, Missouri March 14th, 1918 24BigRegisteredBlackJacks,24

All serviceable age excepting one year ling. Will sell 4 Percheron mares and on Percheron stallion. HERD ESTABLISHEI 1884. Write for big illustrated catalog.

C. M. SCOTT, REA, IMO.

Col. P. M. Gross, Auctioneer. C. H. Hay Fieldman. Sale held in Savannah. Inter urban cars to St. Joseph.





The Famous
Bluestem Duroc-Jerseys

Hogs of all ages and both sexes.

Everything shipped on approval.



Registered Shorthorn Cattle. For Sale:
12 Bulls from 10 to 12 months old.
Scotch tops., Reds. Popular blood lines.
Big richly bred dams. Correspondence
promptly answered. Address

WARREN WATTS, Clay Center, Kansas

Cedarlawn Shorthorns

I have nine bulls from 11 to 14 months old for sale. They are Scotch topped, reds and roans Write of phone when to look for you and we will meet you at the train.

S. B. Amcoats, Clay Center, Kan.

Kansas Breeders' Consignme

Twenty of the leading Kansas breeders have consigned for sale in the big cattle pavilion of the Kansas State Fair association at Topeka, Kan., Tuesday, March 26th, following the annual meeting and big banquet of the Holstein-Friesian association the night before.

Fill In, Cut Out and Mail Coupon Today Sure W. H. MOTT, Sec'y Holstein-Friesian Ass'n, Herington, Kan.

Ass'n, Herington, Kan.

Please send me free catalog of the
Kansas Breeders' Consignment Sale
at Topeka, Kan., March 26, as advertised in Farmers Mail and Breeze.

The sale management has had much difficulty in persuading the breeders to consign the class of cattle that will be offered in this sale, as the cattle are the kind they want to keep, but in order to make this the greatest Holstein event and sale ever held in Kansas, they have made the sacrifice and are offering you the opportunity to purchase the cream of their herds. Every animal tuberculin tested and without a blemish, and positively guaranteed by the consignors, all of whom are members of the Kansas Holstein-Friesian Association and known by the sales management to be men of integrity. Resolve now to attend this sale of all Kansas sales where you may buy a foundation herd and procure cattle that will make you proud every day that you own them, and that will declare a dividend, not annually, or semi-annually, but 365 days in the year.

T. M. Ewing, Independence, Kan. Mott & Seaborn, Herington, Kan. David Coleman & Son, Denison, Kan. Schultz & Robinson, Independence, Kan. Lee Bros. and Cook, Harveyville, Kan. Segrist & Stephenson, Holton, Kan. Lee Bros. and Cook, Harveyville, Kan. Segrist & Stephenson, Holton, Kan. Lee Bros. and Cook, Harveyville, Kan. J. T. Axtell, Newton, Kan. J. T. Axtell, Newton, Kan. B. R. Gosney, Mulvane, Kan. B. R. Gosney, Mulvane, Kan. B. R. Gosney, Mulvane, Kan. H. D. Burger, Seneca, Kan. H. D. Burger, Seneca, Kan. Harry Mollhagen, Bushton, Kan. Geo. C. Tredick, Kingman, Kan.

Be Sure to Mail **Both Coupons** And Get the Two Catalogs

The annual meeting of the Holstein-Friesian Association of Kansas will be held in the rooms of the Chamber of Commerce Monday, March 25th. All visiting Holstein breeders are invited to attend a banquet to be given by the Chamber of Commerce Monday evening. If you are a Holstein breeder and not a member of the association, apply today for membership to W. H. Mott, Secretary, Herington, Kan.

Arrangements have been made at the Throop Hotel at reasonable rates and this will be the headquarters during the Association meeting and sale. This two days' sale affords a great chance to buy pure bred Heistein cattle. Make your plans now to attend.

Be Sure to Mail Both Coupons And Get the Two Catalogs

Also Big Dispersion Sale of F. J. Searle's Famous Sunflower Herd of Holsteins 75 Head of fashionably bred cows and heifers—also some choice young bulls, Mar. 27

Mr. Searle finds himself without a home, having sold his farm on February 16, and must give possession March 1st, 1918. This means the complete dispersion of his herd of registered Holsteins consisting of 75 head of cows and heifers of the most fashionable breeding, also some choice young bulls, some of them ready for service. The cattle are of superb individuality and will be dispersed on March 27th, the day following the Kansas Breeders' sale, at the same place. These cattle will be at the Fair Grounds Barn several days prior to the sale, and can be seen there.

Fill In, Cut Out and Mail Coupon Today Sure F. J. SEARLE, Oskaloosa, Kan.

Please send me free catalog of our dispersion sale of Holstein attle at Topeka, Kan., March 27, s advertised in Farmers Mail and

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... AUCTIONEERS B. V. Kelley, Syracuse, N. Y.

J. T. McCulloch, Clay Center, Kan. C. M. Crews, Topeka, Kan. . J. E. Mack, Fort Atkinson, Wis. Boyd Newcom, Wichita, Kan.

Topeka, Kansas in Big Sale Pavilion March 26-27

80 Head of the Sunflower Herd Holsteins

F. J. Searle, Prop., Oskaloosa, Kansas

Sale to be held at Fair Grounds Cattle Pavilion Topeka, Kansas, Wednesday, March 27th

My farm has been sold and immediate possession to be given. Ininded in this sale will be found:

12 daughters of Model Segis Butter Boy 115602, a grandson of King and from the three times thirty-pound cow, Annie DeKol Butter These heifers are a mighty fine bunch and have calves by side by the great young sire, King Pontiac Concordia Konigen 130856, whose sire, King Pontiac Konigen 75348, recently sold for \$10,000, and whose daughter, Lady Netherland Pontiac, recently has broken the world's records as a junior 4-year-old with over 43 pounds butter in 7 days. King Pontjac Concordia Konigen has for dam the 31.46-pound cow, Nellie Concordia De Kol.

A. R. O. cows of splendid breeding and great individuals.

bead now milking, heifers, heifer calves and a few choice young

WE HAVE ALWAYS USED GOOD HERD SIRES. Every animal WE HAVE ALWAYS USED GOOD HERD SIRES. Every animal in this dispersion will have been bred to either King Segis Pontiac Maia ta son of King Segis Pontiac from a 20-pound 2-year-old daughter of King of the Pontiacs, his weight 2,300 pounds) or Sunflower King Walker 134166, a splendid grandson of King Walker from a 25-pound wow of great quality, his weight 2,000 pounds at 4 years.

SUNFLOWER KING WALKER will be sold. Arrange to attend this sale and see the finest lot of cattle ever sold by Sunflower Herd, and our many customers know that we have sold some mighty good ones. Send for catalog to

F. J. Searle, Oskaloosa, Kansas

Anctioneers: Boyd Newcom. Wichita, Kan.; Jas. T. McCulloch, Clay Center, Kan.; C. M. Crews, Topeka, Kan.

Note: Remember that my sale follows the Kansas Breeders' Sale; also remember that we are consigning grand daughters of King of the Pontines, King Segis Pontine, Pontine Jewel Butter Boy and King Pontine thampion to the Breeders' Sale. A consignment of choice cattle from the herd of W. H. Mott. Secy. Holstein-Friesian Association of Kansas, will be included in the Sunflower dispersion.

Finley's Big Jack Sale

Higginsville, Missouri

March **20th**

All of serviceable age, including a number of herd jacks such as Dr. LOGAN by Gen. Logan by Dr. Wood; an extra good 4-year-old by Dr. Long; Choice McChord by Dr. Mc-Chord; a good 4-year-old by Dr. Leo 2d; one extra good young jack by Choice McChord, and a lot of first-class mule jacks. Will also sell a good yearling by Dr. Nelson, the jack that sold in my last year's sale at \$1,200; one jack colt by Choice Mc-Chord and one by Dr. McChord 3d.

30 JENNETS BRED TO DR. WOOD 30

If you are looking for herd jacks or the jacks that sire those good mules you will find them in this sale. Write for my big

Higginsville, Mo. W. J. Finley,

C. H. Hay, Fieldman.



farming-the saving in labor, lower maintenance cost than horses or mules, more timely and better prepared seed beds, resulting in bigger and better crops.

These things are apparent to the farmer of today, and we believe that the only reason for delaying the purchase of a tractor is-"Will It Work Satisfactorily On My Farm?"

The intelligent man knows that a tractor can't do the impossible, regardless of claims. We have appreciated this for many years. Realizing our own responsibilities in selling a Sandusky Tractor, and standing back of every machine as we do, it has always been our policy to fully determine each prospect's local conditions and requirements beore recommending the purchase of a Sandusky Tractor.

This anables us to know positively that "The Little Fellow With The Big Oul," either the 10-20 Model J or the 15-35 Model E, is satisfactorily and profitable, adapted to your requirements, and consequently "Our recommendation is an adapted guarantee of satisfactory work on your farm."

T ON YOUR OWN WORK

Is substantiation of this policy and as a further safeguard to your interests, all Sandusky Tractors, whether sold direct or thru a Dealer's Sales Room and Service Station, are delivered subject to satisfactory demonstration. A specially trained serviceman will personally instruct you in its care and operation. If for any reason it is impossible to fulfill our guarantee on your work, the tractor is taken off your hands and the purchase price refunded.

GUARANTEED FREE SERVICE

Each Sandusky Tractor further carries a definite and specific guarantee of free This ensures you efficient help and advice whenever wanted and completes a policy which absolutely protects your interests from every conceivable angle.

Write today for a copy of "Power On The Farm," issue J-63 or E-65, or both. It covers all details of design, construction, ability; guarantees and policies. Fully outline your requirements—the number of acres under cultivation and to be cleared, character of soils, crops, per cent of grades encountered both on the farm and on the road, together with your belt power requirements. We will gladly analyze this carefully, making a personal inspection if necessary, and advise you without obligation. Investigate now so as to ensure delivery when you wish it.

The Dauch Mfg. Co, Sandusky, Ohio, U.S.A.

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Principal Factory Branches, equipped with efficient service organizations, and carrying complete stock of parts: Bloomington, Ill.; Lincoln, Neb.; Fargo, N. Dak.; Sioux Falls, S. Dak.; Lewistown, Mont.; Wichita, Kans.; Los Angeles, Calif.; Sacramento, Calif.; Dauch Mfg. Co. of Texas, Dallas, Texas; Export office, 42 Broadway, Rooms 1001-1010, New York City.

SANDUSK

MANUFACTURING

15-35 Model-E

Emil Steege Says:

with 400 gallons of fuel and 50 gallons of oil. I pulled a 33-

inch separator and kept 8 teams

lons of fuel and 10 gallons of oil,

pulling 4 breaker bottoms, and I

and threshed for 30 days in the fall of 1916. It is lots cheaper than horses or steam power. sure like my Sandusky very much; also the treatment I have had

"The tractor will do a lot more

than it is guaranteed to do, and it is very simple to operate.

not hesitate to recommend it to

anybody in the market for a trac-

(Address upon request.)

pull 6 bottoms when plowing. "Plowed 300 acres last spring

from the company.

"This fall I threshed 20 days

I broke 80 acres last spring in 4 days, using 100 gal-

Sandusky 5 x 61/2 four cylinder motor. Sandusky Transmission Indestructible

Sanduskyspur gear drive throughout—no bevel gears;—direct drive on low speed and belt work.
Wheel base, 100 inches; weight 8080 pounds.
Protection throughout against sand and drift

grit.
Guaranteed Keroseme or Distillate

15-35 Model E BURNS KEROSENE