

North, East, West, South

Farmers are learning that dependable tractors must have dependable bearings

When the American farmer takes up a new type of machine, he demands results.

Experience has taught him to go thoroughly into every detail of design, construction and material that means lasting durability and economical operation.

In the short time the farm tractor has been in service he has already found out that no part of a tractor is more important than the bearings.

He wants bearings that have a record of years of dependable service back of them, that are designed to meet heavy side pressures and to carry heavy loads in one and the same bearing, that are slow to show effects of wear and can easily and quickly be adjusted to correct the effects of wear.

For he knows that only such bearings adequately protect the expensive gears of his tractor. Only such bearings are proof against costly delays and difficult replacements.

One reason for the extraordinary service records of Timken Bearings is

> THE TIMKEN ROLLER BEARING COMPANY Canton, Ohio

TIMKEN

BEARINGS

FOR FARM TRACTORS

this: They stand up as long or longer than other bearings before wear becomes evident. Then they can be easily adjusted to eliminate effects of wear and are made as good as new. Thus instead of expensive repairs and replacements, you can renew the same bearings indefinitely.

The few letters quoted on this page are samples of many — and the number is constantly increasing.

Write for our free booklet, F-55, "Timken Bearings in Farm Tractors," and you'll see why these men start their tractor buying by looking for Timken Bearings.

MONTANA:

Will you please send free booklet E-13, "Timken Bearings for Farm Tractors," and advise if Timken Bearings can be fitted to ______ 12-25 (7058) Motor, 1917 model.

NEW JERSEY:

Kindly send me a list of tractors capable of pulling three or four fourteen-inch bottom plows, that are equipped with your bearings, as I have decided that I cannot afford to buy a tractor without your bearings. I wish to consider the caterpillar type as well as the other.

FLORIDA:

I must have a Tractor on my 2point farm in 60 days. It is hard to select one for my purposes, so I am asking you for a booklet with all makes of Tractors using Timken Bearings only.

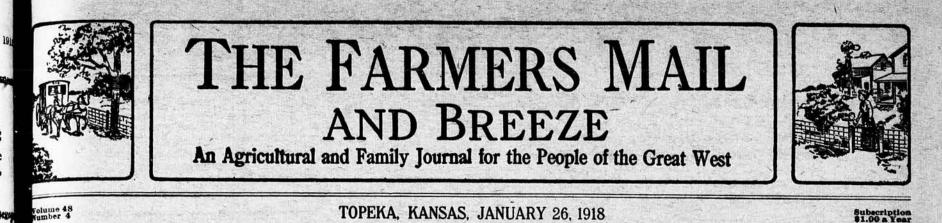
LOUISIANA:

Will you kindly give us the names of some tractor builders who use Timken Bearings. We are in need of tractors that do not require all of their rated horsepower merely to pull themselves along.

CALIFORNIA:

Your letter of the 15th at hand. Please let me know if you can furnish Timken Bearings for the bevel gear case for belt attachment on 12-24 <u>tractor</u>. The gear case is equipped with <u>bearings</u>. The outside bearing on the pulley shaft became worn causing the pulley to vibrate. Several teeth were broken out of drive gear at different times. **OKLAHOMA:**

We want a tractor with four cylinders, four wheels, i. e., two front and two driving wheels in rear, no objection to a chain drive—need about a 20 H. P. on the belt. Please advise the makes of this description that use your bearings, and to save time, please have them send illustration and quote price. January 26, 191



LANS should be made this winter for the careful conservation of the feeds produced in It is important to do 018 his while one is planning on he general methods that will used with the crops next son. We have seen some a soll. eason. We have seen some uite remarkable prices being haid this winter for feeds, and there is every indication hat they will be even more streme next winter. Re-orts indicate that in many ommunities as much as \$1 shock has been paid for mall kafir shocks with almall kafir shocks with al-nost no grain on the stalks. In other places \$10 a ton ras paid for the second rowth in the hay fields, for arvesting in the latter part f November. We are all miliar with the abnormal rises which have prevailed es which have prevailed alfalfa, prairie hay and

There has been much waste a saving the crops produced a this state in past years. o one has been more willg than farmers to admit his, but it has been justified in the ground that it would be pay to use the finer econthan farmers to admit production which in

we been known generally but which the producers we been more or less backward about adopting. Thile that was true in the past it will not be true ring the war and for some time afterward. Let's epare to get the very last unit of nutrition from e feeds which we grow.

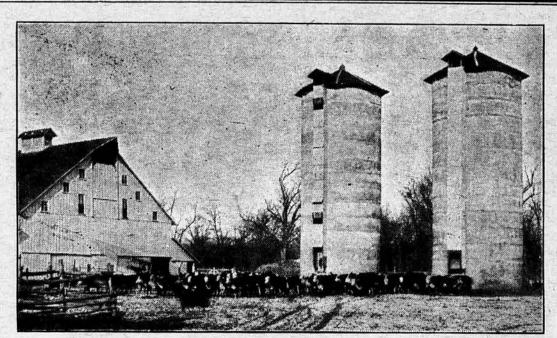
Consider the Labor Problems.

How can this be done in the face of the labor sittion which we all face? How can John Smith Brown county increase the efficiency of his tee in the production of livestock feeds? I don't ow, except in a general way, and neither, probably es John Smith know how Henry Jones of Green-de county and work out bottor methods. Excent John Smith know how Henry Jones of Green-county can work out better methods. Except le general fundamentals which we all know it y obvious that this is going to be a strictly problem which must be worked out on the in-tal farms. We do know, however, that times unormal and that the situation is entirely dif-from what it was in the past. That being ise, it is plain that every man must give the , it is plain that every man must give the possible attention to the factors of produc-they apply to his individual farm if he is to he most profit_and be the efficient helper in war times.

of the greatest needs in Kansas is for a more use of silos. In some cases it will be pos-build a silo between now and next fall; least it will be possible to make an effort to that are available. This was not done in Of course as with all other farm operations of that there will be a labor shortage at silo Of course as with all other farm operations net that there will be a labor shortage at silo g time must be faced. I think this will result in filling with small crews. Perhaps it will mighty good thing if this does occur. More have been discouraged with silos because of troubles at filling time than from any other w. It may be a good thing in some respects of the agony of silo filling at your farm over dy, but it is an infernal nuisance to then have o all the way around the "ring" to help the thors in silo filling for two or three weeks. Then a you get done with that work you

ip on your silo and discover to amazement that it has settled a e distance, and that you have a siderable lot of storage space up re that is not being used.

fuch of this trouble can be avoided filling silos with small crews, using same men in the field and at the and d running shorthanded all Here is the idea: the fundatal thing to consider in filling a on the average farm in Kansas is how quickly the work can be done how cheaply the work can be done how cheaply the cost is a ton of silage that actually goes "over the "The experience of most of the h who have filled silos with small ws, such as George Dornes of Bur-ton for example, has shown that how



Saving Farm Crops for the Stock By F. B. Nichols, Associate Editor

the tonnage cost is cheaper when just a few men are used. So fundamentally it may be a good thing next fall if the labor shortage does force farmers to take up the filling with small crews. Then another thing that will be needed is the cut-ting of a larger proportion of the corn and sorghum fodder. The prices for all baled hays probably will be abnormally high again, which makes it all the more important that the greatest possible use should be made of the roughage. I have heard many men say that they plan on cutture up all of the corn say that they plan on cutting up all of the corn next fall. The unfortunate experience which some farmers had last fall with the corn stalk disease has increased the effort that will be made in cutting the fodder. The pasturing of stalk fields is a waste-ful system of management and the experiences in ful system of management, and the experiences in ful system of management, and the experiences in 1917 showed that it was a very dangerous thing, also. Of course it is true that last fall was dry, and I know that some men are able, by the use of great care, to pasture fields without loss—which is a happy thing—but the fact remains that every fine a dry fall comes along there is much loss. time a dry fall comes along there is much loss. time a dry fall comes along there is much loss. This can be reduced by cutting a much larger pro-portion of the fodder, feeding some of it before turn-ing into the stalks that are not cut, and then al-lowing the animals to stay in but a half hour or so the first day, and then increasing the time very slowly. More than that, the livestock carrying capacity of the place can be increased greatly by cutting the fodder instead of pasturing the stalks. There is a need, of course, for the continuing of the refinements of harvesting such as were observed in 1917 on most places. Farmers in Kansas did the in 1917 on most places. Farmers in Kansas did the best job last year of raking up the scatterings in the hay fields, of cutting out the sloughs and cutting up close to the fences that they had ever done. I That is largely where the personal element enters in the management of the individual farm. One has much more enthusiasm for this when hay is selling for \$25 a ton than when it is selling for a third of that price, too. It is equally obvious that it is mighty important to get as much of the hay



Farm Labor Problems Will be Especially Acute on Kansas Farms in 1918 During Wheat Harvest if the State Produces an Average Crop.

under shelter as possible. I don't suppose that it will be possible to build barns in a great many cases, because of a labor shortage, but it will be possible in some cases, and it will pay to put up such improvements where possible just as much as it ever did. While building materials have While building materials have advanced a good deal in price the advance has not been nearly so much as the ad-vance in the price of hay. But if it isn't possible to build new barns we can at least use the ones which we have efficiently. This has not been done on a great many places in the past. A huge amount of barn room huge amount of barn room has been wasted because of a lack of care. It will pay mighty well to use it all next fall.

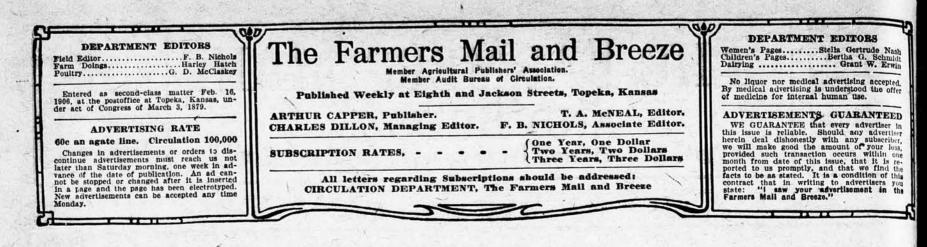
Careful thought also is needed in the planning of the harvesting of the small grain crops, especially wheat. And it may help some if we ad-mit now that the labor situa-

26 JAN 1915 which in the main wheat belt are not likely to when in the main wheat belt are not likely to when in the main wheat belt are not likely to of whe statistic in this state has shown that two failures in the main wheat belt are not likely to occur together. Of course it could come, but it is not probable. I think from what we can tell now that it is probable that we shall have a fairly large crop. If we do have such a crop we are justified now in viewing the labor situation "with alarm." There is going to be but little "floating labor" avail-able, and it is probable that much of this, judging from past experiences. will be almost worthless. from past experiences, will be almost worthless. How are you going to harvest your wheat, if you happen to have a fairly large acreage?

More Care in Harvesting.

More Care in Harvesting. In the face of this labor shortage there is a mighty obvious need for the greatest care in harvesting wheat that we have ever known. The guaranteed price of \$2 a bushel makes it important that none should be left in the fields to waste. It is im-portant to send all the grain across the scales that is possible. We should have less "cutting and kiver-ing" with the binder or header and do a little better job of stacking. Despite this many men will not have enough help, if we have a good crop, to "knock 'er down" at all, or at least it will be very slowly. Careful planning is in order on every wheat farm. These are some of the things which must be worked out in 1918. Nothing is more obvious than that they are individual problems. Things which may pay on one farm may be very unsatisfactory on a farm across the road. And I suppose that on many places, no matter how well the man in charge a farm across the road. And I suppose that on many places, no matter how well the man in charge uses his labor and equipment, there will be much waste. But the ideal which every man should have is to do the best possible work he can with the conditions he will be compelled to operate under. If he attacks the work of the year in this spirit, and then will think far into the future, to plan the work in the most efficient way, we will get the maximum results on Kansas farms from the season of 1918. And thru it all we shall be happier and accomplish more if we recognize that the conditions are ab-

recognize that the conditions are abnormal, and that the factors which formerly governed no longer rule. We are sailing on an uncharted sea, and no man can guess where we shall be when the season ends. There is an appeal in this condition, however, to the man of spirit and ambition. It brings us an opportunity for maximum profits and a call for service at the same time. That Kansas farmers will respond most loyally, as they always have done, goes without saying. That they will get re-sults is equally obvious. When the re-turns from the Kansas harvests of 1918 are counted it will be found that we have "fought a good fight." Good farm production will be developed greatly.



Passing Comment-By T.A. McNeal

The Farmer and the War

Once in a while I hear someone criticizing the farmers because they complain about taking the boys

from the farms to serve in the army. Generally speaking the person who makes the criticism knows little about the real situation. In other words he is shooting off his mouth without knowing what he is talking about. Let me give one or two illustrations to show what the situation or two really is.

The other day I met a farmer I have known for The other day 1 met a farmer 1 have known for many years. I knew him when he was so poor that he hardly knew where his next meal was coming from and probably all his earthly possessions, in-cluding his clothes, would not have invoiced more than \$25. He has hung on and prospered. He has no complaint to make about the opportunities he has enjoyed. I think that at a moderate estimate he is worth \$60,000. I know that his personal cheef has enjoyed. I think that at a moderate estimate the is worth \$60,000. I know that his personal check would be honored readily by his home bank for \$10,000. He is a successful grain and stock raiser. He is not an old man but is getting well up toward 60, and is rather broken down physically. He has 60, and is rather broken down physically. He has just one boy at home, who is within the draft age and unmarried. The boy is a capable young fellow, a splendid worker and endowed with good judgment. He is in class one. He can make no claim for ex-emption on the ground that he has dependent rela-tives, for his father has ample means to support what there is left of his family in comfort without doing any more work. "My earliest recollection," says the young man's father, "is holding my father by the hand and toddling by his side when he was going to enlist as a soldier during the Civil war. I have inherited a love for my country and would I have inherited a love for my country and would have to think that my boy would not be willing to fight for it now. But, if he is called, as I suppose he will be, I cannot for the life of me see how I can carry on my oig farm. I have found it impossible to get competent help at any price. So if the boy goes to war all I can do is to farm just a little of my land. Possibly I may be able to cultivate 80 acres, and the other 2,000 I am afraid will mostly go uncultivated. This means that my farm will pro-duce hardly more than enough to feed myself and the remaining members of my family while it each carry on my big farm. I have found it impossible duce hardly more than enough to feed myself and the remaining members of my family, while it ought to produce enough to supply 100 or more soldiers with grain and meat. Will the government be bene-fited by taking my boy away from the farm and putting him into the ranks? "It is idle to tell me that I can hire someone to the the heavy place. I know from experience that

take the boy's place. I know from experience that I cannot. I am no worse off than some of my neighbors. I have a neighbor with a big farm and stock France and the other is listed in class one. This boy is an exceptionally competent man with stock. My neighbor has 400 head of steers which the boy is taking care of. Now, if the young man is called into taking care of. Now, if the young man is called into the service his father, who is getting well along toward 70, simply cannot take care of the cattle or run the farm. What he will have to do will be to sell his stock and quit. That means that there will be 400 less beef cattle on that ranch next year. Would it not be better for the government to let this competent young man star at home and raise beef competent young man stay at home and raise beef steers and wheat than to send him to the trenches?" Now these two farmers and stock raisers are not

lacking in patriotism. They are both in complete sympathy with the government, and wish to do their duty and have their sons do their duty, but it is a condition and not a theory they are up against. Competent farm help is almost impossible to obtain. I have here an offer from a farmer and stock raiser who wishes to enlist in the service, altho more than 10 years beyond the draft age, to pay \$50 a month and board and washing for a competent hand to take his place. That would mean, unless the farmer earned a commission by merit in the service, that he would sacrifice his time and \$20 a month cash to get the opportunity to serve his country.

I have been out among the farmers in different parts of the state. I have not found them either lukewarm or ignorant concerning the causes of the war. I do not say that all of them are loyal and willing to do all they can, but I will say that so far as I have had an opportunity to talk with them they were entirely loyal. But a good many of them do talk to me like this: "They tell us that our govern-ment and the allies will need every bit of grain and meat that can be raised in this country, but how can we produce to the limit unless we can somehow get

labor that is worth something? It is not a question of wages. We simply cannot get the help that is worth having at any price." They admit that just as a selfish proposition they should be glad to pro-duce more while prices are high and profits large, but they cannot do it unless they can get competent farm labor.

If the government will grant furloughs to the men in the training camps for a month or six weeks next summer during the harvest season and let them go out and help harvest the crops it will aid a great deal. It will not solve the whole problem but it will help.

So before you criticize the farmer try to find out what the real facts are and then try to put yourself in his place.

There is a great deal of misapprehension concern-ing the knowledge and skill required to be a good farmer and stock raiser. Among a good many persons the impression still remains that about all that is required to make a first class farmer is physical strength and a willingness to work hard. That never was true, but it is true that before the age of modern machinery less skill was required. Now a farmer must have a fair knowledge of machinery and be capable of running and caring for an engine if he is a competent farmer. A hired man who is ignorant and careless may

easily do damage amounting to several times his wages. Here is an illustration. A farmer I know hired a man who said he knew how to run a tractor. As a result of the man's ignorance and carelessness he nearly ruined an expensive tractor in a few days. It cost this farmer \$300 and the loss of 10 days' time just when he needed the tractor to plow his wheat ground. The ignorance of the hired man in this case damaged the farmer many times the

There may be an impression that almost any man can feed stock, and yet a man who does not under-stand feeding stock is likely to waste half the feed and at the same time not keep the stock in a thriv-ing condition. Any man who has lived on a farm knows that it requires experience and judgment to know how to feed stock successfully, and it requires experience and good judgment to know how to care r stock generally. Take the case of sheep. I speak of sheep because

raising sheep was the principal business on the farm on which I was raised. There is greater profit in raising sheep today than in raising any other kind of stock and a greater profit than there ever was before in raising sheep, but a man who does not understand how to feed and care for the flock might easily make a failure of the business even now. Sheep are subject to many diseases which are fatal if not looked after and checked in time, but which generally can be cured by proper care. Then when it comes lambing time, unless the keeper of the sheep understands his business he is likely to lose more than half the lambs, while a careful shepherd will save practically all of them.

To get a good lamb crop it is necessary first to have the ewes in a healthy condition; second, the ewes should be kept where they are sheltered from the storms, and third, the weak lambs must be looked after as soon as born. An inexperienced man will not do the things necessary, and the result is a great loss. When we consider that fat lambs 5 or 6 months old are selling on the Kansas City market at \$17 a head we realize that the loss of a few means a good deal of money to a sheep raiser. I mention these facts to show how important it is

to the country at this time to have men on the farms who really know their business.

Looking Backward

(Continued from Last Week)

(Continued from Last Week) Buildings in the corporation center were heated and lighted from a central heating and lighting plant, and members of families had the choice of either doing their own cooking or of taking their meals at the corporation dining halls and paying for them at actual cost. It was soon discovered that not only better meals were served at the cor-poration dining halls than most of the private cooks were able to prepare, but that the cost was considerably less. The corporation had no police force but main-tained a small force of might watchmen whose duty it was to guard against fires. Immoral or disorderly conduct was sufficient cause for expul-sion from the corporation. The only rule of the corporation was that every resident should behave

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mattern and the preservation of the abstract that put departed in tasteful buildings erected for that put as the progressed it was found that few laws were needed. The incentives to crime cease to exist. It had been made apparent even as early as the latter part of the 19th century that crim was largely the result of education and environ-ment. It had been found even then that in cer-tain neighborhoods the policeman was neve needed and crimes were never committed. The remedy was apparent. Make the conditions which banished disorder from certain communities un-versal and the favorable conditions would be un-versal. It had long before been demonstrated the under unfavorable conditions the most moral with rapidly degenerate and that on the other hand with tions rapidly improve. The managers of the corporation farms recon-nized these well proved principles, and took can that the surroundings should be calculated to we considered little less than a crime and to true, boorish and uncultivated an intolerable dis-proved principles as much attention was find the surroundings should be calculated to dreat attention was find the enverted little less than a crime and to dreat pressing became an art. To dress in bad tast was considered little less than a crime and to dreat the surroundings was given as much attention

was considered iftile less than a crime and are integrate. Physical training was given as much attentians as mental and scientific training, so that even is as much attentians as meral and scientific training, so that even is general to be a solved with the grace. beauty and integrate of the people. With the development these corporation farms there grew up a reduced it was found that an average of else areas as a result there cannot to be as many and as a result there cannot be be as many and as a result there cannot be a many and as a result there cannot be be as many and as a result there cannot be be as many as the corporation farms there grew up a reduced it was found that an average of else acres was ample to support a family in luxing and as a result there cannot be as many as 3,200 families instead of 1600 to conduct the grace many of the citizens, so the population of every of poration center grew to be about 25,000 corporation center store grew up a passionate of and devotion to the republic. It has been and as the sitken folds of mission and as a further at substand as the sliken folds of mission the store at a passion to the star spangled banner are lowered to join in the second the store as the sliken folds of mission center are lowered to join in the store approach and as the sliken folds of mission center store are lowered to join in the store approach and as the sliken folds of mission center at submany second to join in the store spond at the sliken folds of mission center are lowered to join in the sliken folds of mission center store are lowered to join in the sliken folds of mission center as the sliken folds of mission center store are lowered to join in the sliken folds of mission center store are lowered to join in the sliken folds of mission center store are lowered to join in the sliken folds of mission center store are lowered to join in the sliken folds of mission center store are lowered to join in the sliken folds of mission center sliken folds of mission center sliken folds of mi

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mighty chorus in honor of their country and their flag. During 1917 there appeared before Congress a man who made the starthing statement that he had discovered the law of cosmic force and had an in-vention by which it might be applied to machinery. The members of Congress were so much impressed by the talk of the inventor that with little opposi-tion they passed a bill granting him the right to manufacture his invention, protecting him from outside infringement but granting to the govern-ment of the United States the full right without the machine and manufacture it. The possibilities of the invention as pictured by the inventor to use the machine and manufacture it. The possibilities of the invention as pictured by the inventor sounded like the dream of a disordered mind, but the inventor impressed the members of Congress with his sanity as well as his modesty. Like most great investions this ene met with miooked for difficulties and violent opposition. It was ridicule as the product of a disordered in. It was opposed on purely selfish grounds as well as by reason of the natural skepticism of the per-pice. The inventor struggled against the tide of proposition and mereiless ridicule but finally died broken-hearted and a nervous wreck in 1955, but not before he had completed a working model which demenstrated some of the possibilities of the invention.

prostention and a nervous wrock in 1925, but of before he had completed a working model which demonstrated some of the possibilities of is invention. A son of the great Italian inventor Marconi, even ork where the wearled inventor laid it down and vercame all of the difficulties that had hindered he progress of the inventor. As might be sur-lised the effect was more than startling; it was evolutionary. By the combination of certain etais the incomprehensible cosmic force, which able to take vast planets many times larger than-ur own and hurl them through space with vast apidity and for untoid millions of years with no dication of diminution of power, was harnessed in made to do the will of man. This did away in the necessity for the carrying of fuel, and he engines were reduced in weight so a child ight lift one amply capable of supplying power or an airship sufficient to carry at least 100 ersons with all necessary baggage and equip-nent for their comfort. Neither was it necessary or rest or stop except for taking on passengers r freight or for putting them off at their everal destinations. With unwearled wing the issup provided with the new mysterious power ould circle the earth in as uninterrupted flight. The possibilities of this new power suggested to aring inventors the possibility of passing outside he influence of our own planet and visiting our istant neighbors in other worlds. This, it was at nee secognized, would necessitate the building of vast airship on which could be carried not only he necessary to have apparatus for the anufacture of the interstellar spaces and also to anufacture of the interstellar spaces and also to anufacture of the interstellar spaces and also to anufacture of the interstellar space and that unless yven and heat could be manufactured in suffi-leni quantities to supply the voyagers after leav-us the atmosphere which surrounds the earth ath death would be the result. The possibility of all of approxi-ately 500 degrees below zero, and that unless were and heat could be m

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The earthy visitors were compelled to acknowl-edge that a family run on that plan would be re-garded with great should so treat the less on a store the chancellor that the the stronger and solve the strong-est children in the family the best clathes and the choicest foods and the best beds while the weak and site of the stronger and more favored brothers, and is it your custom? The asked with a maxement and choicest foods and the best beds while the weak and crippled have to take the scraps thrown to the chancellor that the families on earth. "Is it your custom? The asked with a maxement and choicest foods and the best beds while the weak and crippled have to take the scraps thrown to them by their stronger and more favored brothers, and is it your family custom to make these less favored children dress in rags and sleep in the outsheds in order that their stronger and more capable brothers and sisters may live in idle hux-ury and wear expensive clothing?" The earthly visitors were compelled to acknowl-edge that a family run on that plan would be re-sarded with great disfavor on earth by their meighbors and sisters should so treat their weaker brothers and sisters they might be subject to mob violence. They also hastened to inform the puz-zled chancellor that the custom in all families of standing on earth or at least in the republic of

the United States was to show especial kindness and favors to such children as were not well en-dowed by mature, that the strong brothers and sis-ters were expected to defer to their weaker broth-ers and sisters, to give them the best clothing, and the softest beds, holding that it was but fair-that the stronger should bear the burdens of the weaker. "And if this is praiseworthy in the fam-ily," asked the chancellor "why is it not a good policy also for the state?" As a result of this marvelous journey of Thomas and his companions, a regular system of com-munication was established between the two plan-ets, and within the last few years excursions to the moon and the various planets are not uncom-mon.

(The End)

Don't Forget the Boys in the Camps

From an Address by Governor Capper at a Patriotic Rally at Coldwater, Kan.

Did you ever try to put yourself in the place of Did you even try to put yourself in the place of the young fellow who is leaving home for the training camp and for the battlefield in a foreign fand? He goes bravely. Apparently he goes cheerfully. But he goes knowing he may never again see the dear faces and the familiar scenes of the dearest place in all the world to him-his home, his old home neighborhood, the town and the neeple he has always known.

and the people he has always known. Then comes the day when the shores of his native land fade from his view. For days he sees native land fade from his view. For days he sees nothing but water and sky. Home and the home folks seem a million miles away. Later he finds himself in a strange land, amid a strange people speaking a language he does not know. He is leading a new, a most trying, a vastly uncom-fortable mode of life. Nothing is familiar or natural, not even the place in which he jies down at night. All the time he is being trained to mast at night. All the time he is being trained to meet a strange and savage foe. There are nights of watchfulness, hours of idle waiting in the day time, a wretched existence in dark and cold and damp trenches, and finally the summons to go over the top. About all there is left in his con-sciousness of a world in which once dwelt the spirit of God, of kindness and fumanity is the memory of home and the home folks. It is said that homesickness even affects horses,

that amid strangers and strange surroundings, these dumb brutes have been known to refuse food. Imagine the ache then that often must come to the heart of the stoutest hearted young soldier, when in the strange world into which he is trans-ported there come to him thoughts of home. There is no feeling known to human beings that finds them so utterly forlorn and wretched, so pathet-logible and homelassile departed folden and he ically and hopelessly deserted, friendless and be-

reft, as homesickness. To be homesick is no reflection on a man's courage, or manhood. The best men are likely to feel it most. I have seen with my own eyes repeatedly at a training camp in which were thousands of young men not more than 100 miles from home, how eagerly mail time was awaited. How there was always a stampede for the hoped for letter and paper from home when the soldier mail carrier came in sight. How small scraps of information, bandled back and forth between men from the same locality, were given eager atten-tion. A spirit of happiness seemed to light up the entire camp.

If you were to ask me what in my opinion would do most to make the American soldier a firstclass fighting man and bring him home again safe, sound and clean of soul, my guess would be that it would be frequent letters from home and copies of the old home paper. Cheerful letters from mother, sister, wife, or sweetheart, filled with little inconsequential details of home affairs and the doings and the goings and comings of those at home, in the reighborhood and in the old home town. Letters from home make a soldier's life bearable. They hearten him like a strong tonic. He knows the love in that home is reaching out to him, far across the sea, to the land of hate and war, and that love is a shield and buckler to him in moments that try men's souls and test their manhood.

Some of these men virtually have had no home, other than the locality from which they entered the army or the navy. It is here that such admir-able organizations as the "Thirty-One Club" of Council Grove, Kan., help most. This club was Council Grove, Kan., nelp most. This club was formed to write letters and send papers to the Marris county boys in the service, and it is doing a most Christian and patriotic service. It keeps posted in a public place the name and address of every man who has entered the service from Morris county, and those who know them may write to them, which both the board and the club urge them to do. I cannot praise this plan too highly. I wish that this community and every community and the neighborhood having more than a very few men in the war would adopt it. Nothing will accomplish so much for the wellbeing of your young soldiers who are fighting for their homes and the homefolks in a foreign land, or are getting ready to fight for them, than the knowledge that thoughts and love

and affection of the Athen Cappen them day by day.

Governor.

Crop, Especially for the Home Gardens

UCH INTEREST has developed recently in Kansas in certain son. These so-called "everbearing" sorts produce fruit in early summer and under produce fruit in early summer and under favorable conditions continue to do so until autumn. Heretofore the everbear-ing varieties have been grown chiefly by amateurs and by commercial growers who have tested them in comparison with ordinary sorts; however, a suffi-cient number of trials of these varieties have been made to indicate their real has been made to indicate their real value for home use and for market in certain sections of the country.

Two leading varieties of this type of strawberry, the Progressive and the Superb, are notable not only because they produce fruit from the time of the usual crop until late summer or autumn, but also because they are ex-ceptionally resistant to leaf-spot dis-eases. They are also very hardy. The Progressive has been found to withstand the winters of the Middle West better than any other variety except the Dunlap, one of its parents. The Superb, also, is hardier than most varieties of strawberries. Another remarkable characteristic of these varieties is that if their blooms are killed by frost they soon flower again. Therefore, in sections subject to late spring frosts, which often destroy the crop, these varieties are particularly valuable. are particularly valuable.

During the latter part of the Nineteenth century During the latter part of the Nineteenth century the Alpine strawberry was hybridized with large-fruited varieties which bear crops only in early summer, and, as a result, many "perpetual-fruiting," "autumn-fruiting," or "four-season" varieties, as they are called, bearing good-sized fruit, are grown in Europe. Among the best of these are the St. Antoine de Padone, St. Fiacre, St. Joseph, Merveille de France, and Louis Gautier, none of which has proved desirable in North America.

In this country most of the everbearing straw-berries have had a very different origin. On Sep-tember 28, 1898, Samuel Cooper, of Western New York, while examining his field of strawberries, noted a plant with several runner plants attached, noted a plant with several runner plants attached, all of which were bearing blossoms and fruit in all stages of development. The plants among which these were found were of the Bismarck variety, which is reported to be a cross between the Van Deman and the Bubach. Mr. Cooper set apart these plants which were bearing fruit in the autumn and named the variety the Pan American. From the Pan American have been developed the

From the Pan American have been developed the From the Fan American have been developed the leading everbearing varieties. Mr. Cooper has intro-duced the Autumn, Productive, Superb, Peerless, Onward, Forward, and Advance—all descendants of the Pan American. Of the varieties which have been widely tested to date, the Superb is the most valu-able. The value of the Advance, Forward, Onward and Bearless wrighting has not been detarmined altho and Peerless varieties has not been determined, altho the Peerless seems to possess characteristics which may make it more desirable than the Superb.

Harlow Rockhill of Iowa also has produced many everbearing varieties, using in his work the Louis Gautier, one of the European everbearers, the Pan-American, and many of the standard varieties which under normal conditions fruit only in early summer. The Americus and the Francis are the result of a cross between the Louis Gautier and the Pan Americross between the Louis Gautier and the ran Ameri-can. Mr. Rockhill's best-known variety is the Pro-gressive, a cross between the Dunlap and the Pan American. Other varieties originated by Mr. Rock-hill are the Iowa and the Standpat, both of which are results of crosses between the Pan American and the Dunlar

are results of crosses between the Fan American and the Dunlap. The varieties of everbearing strawberries in the trade at present are Advance, Americus, Autumn, Forward, Francis, Iowa, Onward, Pan American, Peerless, Productive, Progressive, Stand-pat and Superb. In addition, a variety known as the Minnesota No. 1017, dis-tributed by the Minnesota State Horti.

tributed by the Minnesota State Horti-eultural society and the Minnesota Ag-ricultural Experiment station has been Only two of the varieties introduced. introduced, the Progressive and the Su-The Americus is grown to a slight ex-tent and the others very little. The Minnesota No. 1017 has been tested widely in Minnesota and is grown to a slight extent in surrounding states.

Growers of the Progressive and Americus varieties agree that a more fertile soil is required for them than for the ordinary sorts. The berries of both of these varieties are rather small, and a fertile soil is needed to increase their size. Another reason for their need of a fertile soil is that all the everbearers require a larger supply of moisture than do the sorts which produce only plants By George -M. Darrow



The Everbearing Strawberries Should be Mulched Carefully; This Will Hold Down the Weeds and Keep the Berries Out of the Dirt.

after the early-summer crop of fruit. A slight deficiency in the moisture supply seriously affects the size and quality of the berries, but does not notice-ably affect plants producing runners only. A soil classed as very fertile contains a large amount of humus, and one important effect of a large humus supply is to increase the moisture-holding capacity of the soil. Any soil, therefore, containing large amounts of humus, or to which humus has been added by turning under green-manure crops or by the application of stable manure, will be better able to supply sufficient moisture, and one especially well supplied with humus should be selected.

The Superb and other varieties having similar characteristics, however, should be grown on a soil which is rather low in nitrogen. In soils that are too rich, varieties of the Superb type bear a good crop in the early summer and then make a rank growth of leaves and runners thruout the rest of the growing season, just as do the ordinary early-summer sorts. Under such conditions, little fruit will be secured in the summer and autumn. For the will be secured in the summer and autumn. For the best results, these varieties should be grown on a soil in which the supply of nitrogen is somewhat deficient for ordinary vegetable and fruit crops. The soil, however, should have an ample supply of moisture thruout the season, or water should be supplied by irrigation. This peculiar soil require-ment of the Superb—that is, a soil somewhat lack-ing in nitrogen, but having a good supply of mois-ture—is one reason why it has not been so popular in some sections of the United States as the Pro-gressive. On the other hand, the irrigated sections are especially well adapted to the Superb on soil are especially well adapted to the Superb on soil types low in nitrogen.

Since the Superb and other varieties of its type should be grown on soil somewhat low in nitrogen, fertilizers containing nitrogen should not be applied ordinarily to plantations of these varieties. If fer-tilizer is applied, it should contain only phosphorie and potch. acid and potash.

Progressive and Americus need fertile soils, and stable manure usually can be applied with profit to plantations of these varieties. As much as 20 tons plantations of these varieties. As much as 20 tons an acre may be used with good results, and some growers use even larger quantities. It will be found most satisfactory to apply the stable manure to the land the year previous to that in which the straw-berries are set. Weed seeds in the stable manure can then germinate and be destroyed, while if the stable manure is availed directly to the plantation stable manure is applied directly to the plantation the cost of eradicating the weeds will often be con-siderable. Commercial fertilizers are rarely used with these varieties.

Plants of the everbearing type should be set at the same time as those of other varieties. The amount of fruit secured the first year, however, depends to some extent upon the time of setting. If the plants



Everbearing Strawberries Can be Grown on Many Farms in This State, and They are Popular With Most Families

are set as soon as the ground is in con-dition in the spring, a larger crop will be secured than if they are set later. The plants also have opportunity to become established and to develop better root systems before beginning to fruit. If they are set rather late in the season, they show less tendency to make runners than when set very early.

The everbearers are grown under the matted-row and the hill systems of cul-ture, and growers have been very suc-cessful with each. Under the hill system cessful with each. Under the hill system only the plants originally set are kept for fruiting, no runner plants being allowed to develop. Under the matted-row system, however, runner plants are allowed to root and form beds varying in width from a few inches to 3 or 4 feet. Larger crops of the everbearers probably can be secured the first year under the hill system than under the matted-row system. The cost of raising matted-row system. The cost of raising them, however, will be greater, as a much larger number of plants are set than under the matted-

row system.

One of the most important factors in determining which system is to be used is the fruiting habit of the variety selected. Thus, the Americus, Francis, Standpat and Progressive varieties fruit on the runner plants almost as soon as the runners take root, while the runner plants of other varieties bear very little fruit or none at all before the following very little fruit or none at all before the following year. During the first year, from a certain number of plants to start with, the varieties mentioned usually will produce larger crops if they are allowed to form runner plants freely than if kept in hills. The Superb, Peerless, Autumn, and some others bear more during the first year if not allowed to make runners than if runner plants are allowed to form.

runners than if runner plants are allowed to form. The plant-making ability of a variety, however, should be considered before deciding upon the system to be used. The Americus, Autumn, Francis, Pan American, Productive and Standpat do not make runner plants so freely as the Progressive, Superb, and certain others, and thus are better adapted to hill culture than the last-named sorts. In ordinary practice, therefore, the Progressive should be grown under the matted row system and the other varieties under the hill system, except, however, in sections where the Superb and others of its type are kept for a spring crop.

Under the matted-row system the plants should be Under the matted-row system the plants should be set at the same distance as ordinary varieties, such as the Dunlap, Gandy, and Glen Mary—that is, from 18 to 36 inches apart in rows which are $3\frac{1}{2}$ to 4 feet apart. When set 2 by 4 feet, 5,445 plants will be required to plant an acre. About 50 plants, the number needed to set a square rod, should supply a small family with befries thruout the season.

Under the hill system the plants should be set the same distance as are the ordinary varieties. If set 18 inches apart in rows 3 feet apart, 9,680 plants an acre will be needed; if 18 inches apart in double rows in which the single rows are 18 inches apart and the double rows 4 feet from center to center, 14,520 plants an acre will be required.

Flower stems begin to appear soon after the plants are set. Unless the plants are well established, these flower stems are a severe drain on the vigor of the/ flower stems are a severe drain on the vigor of the plants, while very little good fruit will be secured from them. For this reason all flower stems which appear before the plant is established thoroly should ordinarily be removed. If, however, growing condi-tions are favorable, the plants may become estab-lished very quickly and the removal of the flower stems will not be necessary. When growing condi-tions are not favorable, the flower stems should be kept nicked off until into July. Berries begin to kept picked off until into July. Berries begin to ripen about a month after the flower stems are allowed to develop fruit, and continue to ripen until freezing weather occurs.

Tillage should be very thoro, even more thoro than for the varieties that fruit in early summer, and unless a mulch is used it should be continued from early spring until late autumn. In periods of drouth, the cultivator should be used as often as once a week, jor without an adequate and constant moisture supply a large crop of fruit cannot be matured. Tillage should be shallow, especially near the plants, so as not to injure the root system or loosen the plants in the ground. A cultivator with many small teeth is best adapted to such use. The outer teeth of the culti-vator which run next to the rows should be shortened so they will not disturb the roots of the plants.

When planted on some types of soil the berries are likely to become gritty if the tillage is continued thru the fruiting season. To keep them clean, many growers use a mulch of hay or straw

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How Are You Helping to Win the War? Here's a Chance to Get \$10, and in Getting It Aid Some Other Patriot Who May Be Slow in Falling Into Line

E AMERICANS have learned the lesson of giving, since the Great War began. Our W E AMERICANS have learned the lesson of giving, since the Great War began. Our contributions to the relief funds of the time have proved it. And we are learning to tend and to save. But too many of us are in-dividualists—that is we seldom tell anyone how we manage our economies. Some otherwise perfectly normal human beings seem to consider it strictly private business, whereas the truth is that many a man and many a woman hasn't the faintest idea how to save altho willing enough to do it to the point of discomfort. point of discomfort.

January 26, 1918.

Of course we know the farmers of the country are going to produce the biggest crops they have ever turned out, and we know their families are more likely to do without things than are many families in the cities. But it won't do to stop at big crops.

in the cities. But it won't do to stop at big crops. We must help others to help the country. Once in a while we meet a man or a woman who says "I don't just see how my eating combread for a week or doing without meat for two days is going to help the soldiers in France." Such persons need enlightenment, the enlightenment you can give them by telling how you manage how you says, how by telling how you manage, how you save, how much can be set aside for the allies in a week if every one of the 20 million homes of America does without some article for a few days.

Here's Your Chance to Earn \$10.

Here's Your Chance to Earn \$10. In order to get this needed information and spread it among the hundred thousand or more readers of the Farmers Mail and Breeze we are offering, this week, to pay \$10 for the best article describing the way in which a farm family is doing its part in solving the big problem of the war—the food prob-lem. This story must not be more than 800 words in length, and it will be just as likely to win if it contains only 500 words. We want you to set down plainly just what is eaten in your home; how the meals are planned; how the men folks act about it; what your family and your neighbors say about the what your family and your neighbors say about the war—in short your article ought to be really help-ful to the person who needs help. We simply must get behind the National Food Administration and work hard.

Work hard. For the first acceptable article we shall pay \$10 immediately, and for the second best \$5. All manu-scripts should be in this office not later than Feb-ruary 9, and must be addressed The Food Editor, The Farmers Mail and Breeze, Topeka, Kansas. No manuscript improperly addressed will be considered. If you have a typewriter—and every farm family ought to have one—put the lines at least two spaces apart. If you use a pen or pencil write on only

one side of the paper and put the lines far enough apart to permit editing if necessary.

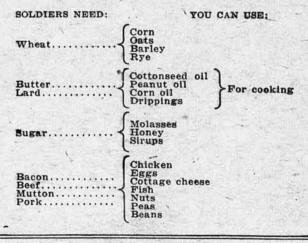
Never Mind the Grammar.

Don't worry about grammar or language. What we want is facts, and a person who loves America can save food in ungrammatical sentences just as well as a professor in Harvard could do it.

well as a professor in Harvard could do it. Those are the terms. Get busy. If by any chance you haven't entered into the saving spirit don't let another day go by without making your plans. The first and most important rule to put in force in your kitchen is substitution. You don't have to starve or even to go hungry; not for one mo-ment, altho it might be an illuminating experience for a few Americans to miss a meal or two. Substitute. You can fill up on combread if you try and let the wheat flour go to the soldiers. Can't you see how the supply would be increased imme-diately if 20 million housekeepers cut down their flour purchases one-half? The allies—the men who are fighting for you and

The allies—the men who are fighting for you and yours, need the foods which can be most readily shipped. These are wheat, meat, fats, and sugar. Now, this country has at its disposal just so many

tons of wheat, meat, fats, and sugar—just so many and no more. Out of this quantity the amount that can be shipped to the allies and our own soldiers depends on how much of that wheat, meat, fats, and sugar we as a nation can keep from using. Every bit we don't use means that much extra they can use. Just as a suggestion we are offering here this brief table showing how to substitute:



The most important single substitute in that list just at present is corn. And that means corn meal. Is corn meal being used at your home these days in-stead of wheat? And if not, why not?

Special Days for Saving.

And is your family observing the system of special saving by which the entire country is trying to aid in accumulating supplies for the allies? This is the plan:

pian: Every day-1 meatless meal. Every Tuesday-A meatless day. "Meatless" means that no meat (beef, pork, mut-ton, veal, and lamb) is to be eaten. And no pre-served meat-beef, bacon, ham, or lard. Every Day-1 wheatless meal. Every Wednesday-A wheatless day. "Wheatless" means that no wheat products are to be eaten.

be eaten.

Every Saturday-A porkless day. This is in addition to Tuesday. And "porkless" means that no fresh or salt pork, bacon, lard, or ham is to be eaten.

This scheme does not so radically change the pro-gram which most families have always followed as to create hardship. But it does create system. And it helps to make one big family out of the whole nation. The housekeeper in Portland, Maine, who serves only combread on Wednesdays knows that the women out in Portland Oregon are doing the serves only cornbread on Wednesdays knows that the women out in Portland, Oregon, are doing the same thing. It is just as if on every Tuesday, Wed-nesday, and Saturday, the whole nation were sitting down at one big dining table together, all united in the single endeavor to help win the war. Is your family at that table?

Answer These in Your Story.

How many wheatless meals a week does your family ordinarily have? How many mentless? To what extent has your family increased the number of wheatless and meatless meals a week since this country entered the war?

Do your men folks growl about the meatless days or the substitutes?

Do you grind your corn meal at home? Of what peculiar value to soldiers in the field and sailors aboard ship are each of these: wheat, meat, fats, and sugar? The domestic science department of your high school or the agricultural college will give you the information.

Remember the date, February 9, and don't forget to address your, article to the Food Editor, The Farmers Mail and Breeze, Topeka, Kansas.

Growing Sweet Clover on Kansas Farms The Acreage of This Profitable Legume is Increasing Rapidly; Excellent Returns are Obtained on Poor Soils

WEET CLOVER is often considered a pest. Such a conclusion has little foundation. Sweet clover can be more easily eradicated than al-falfa. It is much more difficult to secure a of Sweet clover than it is to get rid of the The opinion that Sweet clover is a pest probis drawn from its persistence on waste land. Nistence is due largely to the fact that the produce a large amount of seed which rein new plants every year. Any method which Prevents the plants every year. Any method which prevents the plants from producing seed for two sensons will completely destroy the entire crop. Sweet clover also may be cleared from a field by plowing the land and planting a cultivated crop, which should be handled in a manner similar to a crop following alfalfa or timothy sod. It is unsafe to assume that Sweet clover will there on all Kansas soils. It is, however, a com-mon opinion that it will grow on the poorest soil to be found. This conclusion usually is based on the fact that Sweet clover thrives well on waste areas.

act that Sweet clover thrives well on waste areas. It must be remembered that roadsides, draws, and other uncultivated areas usually are quite fertile. Any soil that is not subjected to continuous crop removal naturally contains a relatively large amount of plant food even tho the soil be in poor physical condition. That Sweet clover grows wild on heavy clay soils, and on sandy, gravelly, and other rocky points is an indication, however, that it is adapted to a wide range of soils. That it can be grown suc-tessfully on many soils unfit for profitable alfalfa or Red clover production has been demonstrated. It is apparent that on thin rocky or badly worn upland soils, sour soils, or soil having a tight sub-soil near the surface, Sweet clover should at first be tried on a small scale. The price of seed and difficulty in securing a stand, combined with the possible loss of the land for one season, makes this practice logical. temoval naturally contains a relatively large amount

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By C. A. Helm

Sweet clover will be most beneficial to the soil and produce a better yield if the soil is inoculated. A large area of Kansas soils is naturally inoculated for Sweet clover, since the same bacteria works on both alfalfa and Sweet clover. On rather worn or poor soils it is a good practice, if one is not cer-tain that the soil is inoculated, to inoculate before seeding. This can be done in two ways.

The soil culture method is the one that appeals most strongly to the farmer, especially when he knows of a field in the locality where the soil is thoroly inoculated for a given crop. The presence of such inoculation is indicated by numerous nodules on the roots of the particular leguminous Such soil when taken from the surface 6 inches

allowed to dry somewhat, and is thoroly sifted can be applied to the land to be inoculated with a ferti-lizer grain drill. When applied with the drill and seeded thru the holes directly into the ground, 200 pounds an acre will be ample.

Where no drill is available and it is necessary to broadcast by hand, the amount required an acre will be at least 100 pounds greater. When the field is to be ineculated by broadcasting the soil by hand, the harrow should follow immediately to cover the inoculating soil, as the sunlight is very injurious to the bacteria. Transferring large quantities of field soil great distances is expensive, and the farmer is always taking the risk of introducing new and troublesome weeds as well as plant pests.

Many farmers who prefer the soil culture method and yet who do not care to handle large quantities of soil use what is known as the glue method of applying the soil culture. The seed to be inoculated

should be moistened with a sticky solution which may be made of one part liquid glue to 19 parts of water, or if preferred, 1 part corn sirup or sor-ghum molasses to 5 to 10 parts water. The solution should be just sticky enough to be felt with the fingers. Very little of this solution will be required as 1 quart of solution will moisten a bushel of seed. After the seeds are moistened thoroly with this solution, the soil should be sifted carefully. Two thicknesses of common window screen will make a satisfactory sieve. The seed should be stirred all the time to insure a thoro distribution of soil on the seed. Five pounds of fine soil will be ample for every bushel of seed, but it should be thoroly sifted as it is applied so that no pebbles or large clods will go into the seed will go into the seed.

A stand of Sweet clover is as difficult to obtain as a stand of alfalfa. For best results, a well pre-pared seedbed is necessary. If fall seeding is prac-ticed, the land should be plowed early, and well compacted the well pulverized on the surface. A good wheat seedbed is a good seedbed for Sweet clover. If Sweet clover is to be spring sown, the land should be prepared in the fall as spring seeding should be done early.

Sweet clover may be sown with or without a nurse crop. If the land is relatively free from weed seed, seeding it alone is to be preferred. However, on weedy land a light seeding of wheat, rye or oats may constitute a nurse crop. It may be necessary, especially in dry seasons, to cut the nurse crop off for hear. Heavening the nurse crop for hear will be for hay. Harvesting the nurse crop for hay will be beneficial to the Sweet clover in practically any season. If this practice is followed, oats as a nurse crop is preferable. If the nurse crop is left until maturity, wheat is preferable to oats. In all cases the nurse crop should be seeded at not more than three-fourths, preferably one-half, the normal rate.



LAKIN-MEKEY

R. Scott,

THE FARMERS MAIL AND BREEZE

Jayhawker's Farm Notes

BY HARLEY HATCH

Real Winter Arrived at Gridley. The Cold Went to 64 Degrees Below The Cold Went to 64 Degrees A. Vermont. You Won't Forget a Real Blizzard. The Mail Carrier Failed to Come. Co-operation Pays at Burlington.

WINTER came down on us this week like a 10-ton sofe site Week like a 10-ton safe falling from the top of the Woolworth building. The largest part of 4 inches of snow which fell January 10 is piled the east and west roads again, especially along wheat fields and meadows. The wheat fields retain part of the snow, however, which will help greatly in protecting the plants from the 12-below weather we are having these nights. Luckily the sun shines out during the day, which allows the stock to get the kinks out of their backs for part of the time, at least.

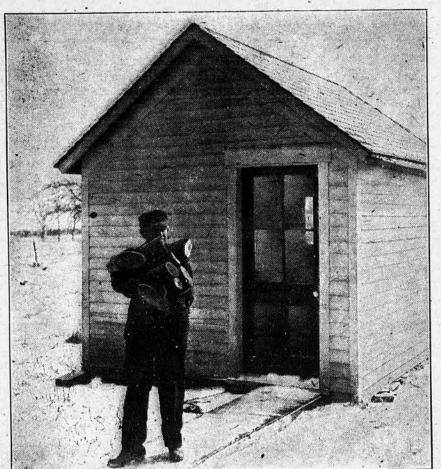
But if you think we are having it cold here in Kansas just listen to the news which came the first of the week from my old Vermont home. Barton, the town in which I was born, reports 48 degrees below zero while for three nights running the mercury went to more than 40 below, and at no time, day or night, did it go above zero during that cold week. Newport, the county seat or shire town as they call it back there, is located at as they can it back there, is located at the foot of Lake Memphremagog where the north wind gets a 25-mile sweep right down from Canada, and as a re-sult Newport reports 64 below zero, which is cold enough for anybody unless he belongs to the Bolsheviki.

Right here I wish to take exceptions to the tale you so often hear of not feeling the cold in the North. I notice that most of those persons who tell this tale have never lived in the North or else they have been there but a short time when the weather was exceptionally I lived for several years but 1/2 mild. mile from the Canada line, and since that time I have been gradually working south. So far from feeling the colder as I move south I find it warmer and more pleasant with each southern move. On a par with this tale is the one of not feeling the heat in the South as you do in the North; my experience has been that the farther south you go the hotter it gets and the more you mind it in the summer. In the matter of weather you can't eat your cake and

the division of profits for the last six months as follows: to the stockholders, 4 per cent; to stockholders who bought 4 per cent; to stockholders who bought, goods, 8 per cent on the amount bought, techholders 4 per cent. The and to non-stockholders 4 per cent. The number of stockholders is now about 280, and the amount of capital stock which the foregoing dividends and on rebates were declared is not quite \$4,000. The dividend to stockholders for the first half of 1917 was the usual 4 per cent, while rebates to stockholders and nonstockholders were 10 and 5 per cent re-spectively. The total net profits divided during the first six months was slightly more than \$2,400, while for the last half the amount was \$1,700. So the profits for the year were greater than the whole amount of the capital stock; not bad business, is it?

This store follows the Rochdale plan of dividing profits and extends credit to no one. It also does not attempt to cut prices; it takes the regular merchants' profit and at the end of every six months divides with its customers. To start a price cutting war is fatal to a business with limited capital and it makes plenty of enemies, and the friends who partake of the benefits of the price war are mighty transient ones. Price war are mighty transient ones. cutting and trade wars are responsible for most of the failures of farmers in co-operative ventures, and the founders of the big Burlington business knew this and determined to avoid it.

The stockholders of this store have always been paid 8 per cent per annum; any profits above that have always been divided among those who bought goods. Non-stockholders get just half the re-bates stockholders do, which is calculated to make every man who does any amount of trading become a stockholder. The immense trade this store has on so limited a capital is accounted for by the fact that the profits, aside from a fair interest, do not go to the stockholders but to the ones who buy the goods. This store has never paid less than 31/2 and 7 per cent rebates since it began business in 1913; in addition to this the prices are as low as any in the county, and the quality of the goods is the best. The it in the summer. In the matter of weather you can't eat your cake and have it too. The stockholders of the co-operative store at Burlington held their semi-annual meeting this week. They made



Cold Weather Arrived at Jayhawker Farm, and the Fuel Supply Available in the Shed Was Mighty Helpful in Making the House Comfortable,

January 26, 1918,

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Instead of having one Sunday this week we have had three. We had no mail from Thursday until Monday, which is a record for us. So far as I can re-member we have never before missed mail two days in succession. The car-riers from Burlington made their rounds on both days the Gridley carriers missed, but their roads are in different com. munities; the Gridley carriers pass thru much meadow land from which the snow much meadow land from which the snow blows and piles up in the roads. I did not blame the carriers for not coming, badly as I wanted the mail for Sunday reading. The fact that on one morning the mercury stood at 12 below and the next at 18 below fully excused them in mermind. I also am prepared to excuse my mind. I also am prepared to excuse the peaches for not bearing next summer.

That bitter cold morning of January 12 brought to my mind strong memories of that date just 30 years before—Jan-nary 12, 1888. On that day came the worst blizzard to Northern Nebraska that territory ever experienced. The air was filled with a flying mass of powdered ice which no living thing could face, and the mercury went to 40 de-grees below zero. That anyone caught in that storm could live seems a out in that storm could live seems a marvel, yet many did live and found shelter. In our county five persons lost their lives while the number of cattle which perished remains uncounted to this day. One neighbor lost 110 head; of his large herd the only ones saved were a few that found shelter in and around an abandoned claim shanty. I was going to school at the time and stayed that night in the school house, All iron articles were highly charged with electricity, and they remained so until about 4 o'clock the next morning, when the storm began to abate. We had early found that the stove was highly charged and frequently tested it with the hatchet used to chop kindling, and it was not until nearly morning that we found the stove had lost its electrical power. 'I have told this tale to many persons not acquainted with such storms and I knew by the way they looked at me they thought I was a liar, but to one familiar with that storm the truth is known.

I have often heard those not familiar with the genuine blizzard say that no storm could be bad enough to "lose them" within their own yard. Such persons cannot even imagine the terrible fury of the storm; no one can face it; his breath is taken, his face filled with the powdered ice with which the air is full, he cannot see his hand held out before his face and once the sense of direction is lost the terror of the storm is so great that few know what they are doing. If I were given my choice of passing thru a tornado or a real blizzard I would take the tornado every time. They talk of blizzards in Kansas but Kansas never saw a genuine blizzard. Language cannot describe such a storm but the genius who first found the name did as well as poor human limitations allow. Newspaper reporters dignify a snow squall by the name of blizzard but had they ever witnessed one they would save the name for the real thing-and would not use it perhaps once in 50 years and they might live in Northern Ne-braska, too, for not since 1888 has that, state been visited by such a storm. Let us hope it never will be again.

Successful Community Fairs

The educational and recreational benefits of community fairs may be had, in-expensively, by any community if the co-operative plan suggested by Farm-ers' Bulletin 870 of the United States Department of Agriculture is followed. The community fair is described as a county fair with commercialized amuse. serves as a feeder to the country and larger fairs. One Middle Western country recently had a county fair composed ty of 72 community exhibits. There were no races or side shows, and the 10,000 visitors spent their time in inspecting its exhibits and in wholesome recreation. This bulletin may be obtained free on application to the United States De-partment of Agriculture, Washington, D. C.

Where Work is Appreciated

There is nothing that gives me more pleasure than to boost for Capper for Senator. I hope to see Arthur Capper in the President's chair in the near fu-ture. I honestly believe he will be there sometime. T. E. Randall. Independence, Kan.

Here's Another of the Winners County Cleared \$561.28 in 1917

Ira Martin of Anderson County Cleared \$561.28 in 1917 BY EARLE H. WHITMAN Assistant Manager

When the light the light the light the light the light the light l



Ira Martin.

from W. A. McIntosh, Courtland, Kan., for \$35. She was shipped by express to Welda and arrived November 18.

"I fed my sow 1 pound of bran and 1 pound of shorts, mixed together in warm water, and four or five ears of corn a day. I weighed her February 5 corn a day. I weighed her February 5 and began keeping record. She weighed 310 pounds. When I got her, she

310 pounds. When I got her, she prize weighed 210 pounds. a \$25 "My sow farrowed eight fine pigs, Court February 12, three males and five fe-males. I put her in a small house and herd. kept a fire until the pigs were old The chough to stand the cold. I always to h gave them a good bed. when

"I fed my sow the same amount until March 1. I then increased the feed to $1\frac{1}{2}$ pounds each of bran and shorts and ¹⁷/₂ pounds each of bran and shorts and ¹⁷/₂ pounds of corn a day. From April ¹⁰ to April 20 I gave the sow and pigs only corn and water because they were getting a few spears of grass, which made their feed too rich. I weaned them April 20 and began giving them slop again. I gave them 2 pounds each of bran and shorts and let it soak from one feeding to the next. I always put in a handful of linseed meal. They were turned on rape and oats pasture May 1, and June 1 we ran out of corn and gave them 21/2 pounds each of bran and shorts.

"My sow weighed 300 pounds on July 1. having lost 10 pounds since February 5. I quit feeding the pigs August 15 and only gave them water. I had fed up to that time 357 pounds of bran and shorts, 100 pounds of linseed meal, 100 pounds of tankage and 494 pounds of

"When the pasture began to dry up, I fed a little green corn. From Sep-tember 20 to November 15 I fed them 6

care and feeding of swine.

sentatives for

10

THE CAPPER PIG CLUB

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

sentatives for county in the Capper Pig Club Contest. I will try to secure the required recom-mendations 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 concern-ing pig club work in the Farmers Mail and Breeze and will make every possible effort to acquire information concerning the breeding, care and feeding of swine

Signed Age

Approved Parent or Guardian

Postoffice Date

Age Limit 12 to 18

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

Why don't you join them this year?' I had sent pigs \$6, and two months for sow 30

year?' I had sent pigs \$6, and two months for sow or my name in for cents. 1916, but Mr. Case "I have enjoyed the contest work and taking care of my pigs. I am going to son county al-keep my sow and five gilts next year, ready had a mem-ber. This time I one of them separate. I was offered filled in the court \$50 for some of my gilts but did not filled in the cou- \$50 for some of my gilts, but did not pon right away sell them. and Mr. Case no- "I may not win a prize, but I have

"I may not win a prize, but I have made a good profit and I think it has been worth while for what I have learned." tified me that I had been chosen a member for 1917.

"I borrowed the money from Ar-facts. With his eight pigs he produced thur Capper and 1,758 pounds of pork at a contest price bought my sow of \$53.66, or an average cost a pound h, Courtland, Kan., of a fraction more than 3 cents. With ipped by express to November 18. pigs, five gilts now on hand worth \$50 apiece, his sow doubled in value, and nine fall pigs averaging 85 pounds, Ira figured that his total profit for his year's work amounted to \$521.28. That was before he knew he had won second prize of \$15 in the contest for 1917, and a \$25 pig offered by W. A. McIntosh of Courtland for the best record made by a boy who purchased a sow from his

The profit record that Ira Martin has to his credit is unusually large, but when you consider the fact that a large when you consider the fact that a large number of boys made \$300, and that the average profit was more than \$100 apiece for the 275 boys reporting, you may be sure that every boy in the Cap-per Pig Club for 1918 will have a cash. Mr. Jones, in an interesting letter, mighty good chance to finish the year says the boys in his county are all right, but that their fathers aren't sure they want their so to take up the cap be done and a boy who takes an in

by wouldn't let the matter rest until he knew his county was lined up for a long, hard pull in the 1918 contest, and when I tell you three boys were after the tenth place in his county you will know that Bill went after them right. tember 20 to November 15 I fed them 6 when I tell you three boys were after pounds of bran and 1 pound of linseed the tenth place in his county you will meal a day. I began to feed corn Oc-tober 1. I gave them 24 pounds a day Atchison was the county, you remem-until October 15, then increased it to 90 pounds. I increased it to 40 pounds on November 1. "I sold a male pig for \$35 on Novem-last year, but the pep the boys in those

ALLEN COUNTY.

Address Name. Age
 Name.
 Address.
 Age

 Lyle L. Lewis, Humboldt.
 15

 William A. Hees, Jr. Humboldt.
 12

 Matthew Williams, La Harpe.
 15

 William E. Osborn, Iola.
 14

 Hardin Lineback, La Harpe.
 14

 Ulfford Plerce, Moran
 16

 Paul Gurnell, Humboldt
 16

 Harry Dunlap, Carlyle
 16

 Wallace Wilhite, Humboldt
 13
 ATCHISON COUNTY.

ATCHISON COUNTY: William Brun, Muscotah Clarence Klefer, Horton Everett Drake, Cummings Marvin L. Harvey, Horton Ted Hendrickson, Muscotah Chester Thompson, Muscotah Hal Hutchens, Muscotah Vernon Klefer, Muscotah Charles C. Brown, Horton Claude H. West, Muscotah RENO COUNTY.

RENO COUNTY. Oren Dinwiddie, Sylvia Mayne A. Howell. Nickerson ... Albert McElroy. Sylvia Orvfile M. Clark, Abbyville... Haroid E. Miller, Langdon ... Floyd E. Warnock Turon Earl Kiger, Turon Clifford Snyder, Burrton Everett Yust, Sylvia Only two old mombase ...

only Oren Dinwiddie is a last year's member.

Say, fellows, I think we should give three cheers for the breeders who of-fered prize pigs to winners in the 1917 contest. At the time these pigs were offered, a \$25 gilt meant an animal of which any boy might be proud. Breed-ing stock has increased tremendously in price since that time, but the breeders are going to do the right thing by the boys who won their pigs. B. E. McAl-laster, who will give the prize Poland -China gilt to Harley Dawdy, first prize winner, says he is planning to send a gilt valued at \$50. Mr. McAllaster also says he wishes to offer a fall gilt to the boy in this year's club who makes the best record with Polands. W. W. Jones, Say, fellows, I think we should give best record with Polands. W. W. Jones, who offered the \$25 Duroc Jersey gilt for the red breeders in 1917, will send

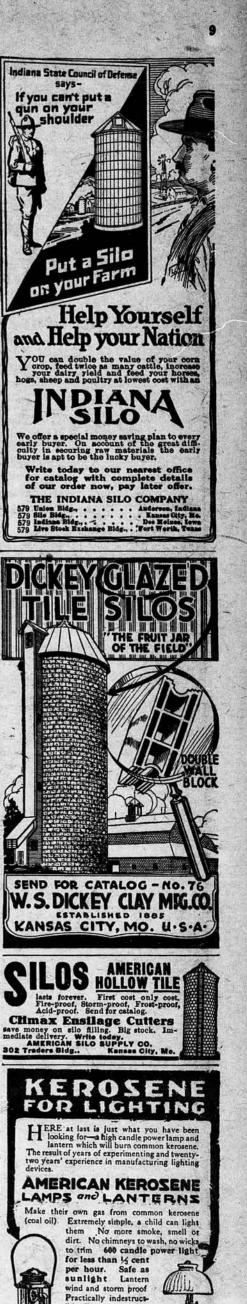
says the boys in his county are all right, but that their fathers aren't sure they want their sons to take up the contest work. Come on in, fellows, and bring your dads with you to show them what it means to them really to be in partnership with the boys they want to keep on the farm. I suspect the fine records made by members of the 1917 Pig Club made boys more eager to get into the club, for three counties have completed their membership since last week. They are Atchison, Allen and Reno. I think it is only fair to give Bill Brun, the live county leader of Atchison, much of the redit for filling his county. Bill sim-ply wouldn't let the matter rest until boys more was lined up for a credit for filling his county was lined up for a he knew his county was lined up for a boys more was lined up for a credit or jult in the 1016 cate the knew his county was lined up for a boys more was lined up for a county leader of atchison, was lined up for a boys more was lined up for a county leader of atchison, was lined up for a boys more was lined up for a county leader of atchison, was lined up for a boys more was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county leader of atchison, was lined up for a county line the supervise at the supervise supervise the other day from long. County line the supervise superv

to the boy making the best record with Duroc-Jersey hogs. I had a letter the other day from Ralph Stricklind. Ralph was a mem-ber of the 1916 club, and had a lot of bad luck. When the time came for him to pay his note the boy paid the interest and asked to have the note extended for a year, altho he would not be able to remain in the club. It was unusual. to remain in the club. It was unusual, but the note was extended, and in this letter came a check to take care of the note and interest, and many thanks to Mr. Capper for his kindness. There's no limit when you're trusting to a boy's honor.

And now, fellows, I've got some news that made Mr. Case and myself feel mighty bad. In a letter written Jan-uary 17, A. L. Butts of Point Rocks, Morton county, tells of a sad accident which resulted in the death of Seba Butts, a member of the 1917 Capper Pig Club. Seba was helping his brother Pig Club. Seba was helping his brother run a threshing machine, and was fa-tally injured by having his clothing caught in the belt. I know every one of the Capper Pig Club boys will sympa-thize sincerely with his parents, and if any of you care to tell them of your sympathy I know they will be glad to have your letters. have your letters.

The fact that grain is high in price makes it all the more necessary to feed well to get the best returns.

The number of silos in Kansas is increasing at the rate of about 12 per cent a year.



ible. Write for circular.

American Gas

Machine Co.

766 Clark St.

ALBERT LEA. MINN.



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An Excellent Show is Being Arranged at Kansas City O FFICIALS of the Kansas City Trac-tor club, under whose auspices the Third Annual National Tractor show will be held during the week of February 11 to 16, have accepted the plans for the special Exhibition Building to be averated on the Ulars interaction for the special Exhibition Building ad do

Fricials of the Kansas City Tractor for club, under whose auspices the Third Annual National Tractor show:
 The National Tractor show:
 The National Tractor Show:
 Tractor Companies: Square Turn Tractor Show:
 The National Tractor Show:
 Tractor Companies: Square Turn Tractor Co., Chicago, Lyons Atlas Co., Indianapolis Co., Chicago, Lyons Atlas Co., Indianapolis the Plaza just east of the Union Station. Building operations have started and it is expected that the entire structure will be ready for the exhibits soon. The huge structure will cost approximately \$25,000.
 The two previous tractor shows were held in a tent. The use of a tent was unsatisfactory from many standpoints. It was practically impossible to keep the tent comfortably heated or adequately lighted. It was this fact that led the officials of the Third Annual show to appropriate a large sum for the erection of a wooden structure. The special building will be unique in many respects. It will be one of the largest temporary buildings ever erected for show purposes, and, officials say, the opportunity for the disclass of the function.

for the Week of February 11 to 16

buildings ever erected for show purposes, and, officials say, the opportunity for the display of tractors, tractor acces-sories and power farming machinery in general will be much better than in any

permanent structure available in Kansas City. The scheme of ventilation will be something similar to that employed in the Billy Sunday Tabernacle. The build-ing will be heated by steam. Pipes for this purpose will be laid between the Tractor Show Building and the Union Station. The building will be lighted thruout by electricity. The decorations are on an elaborate scale. Supporting pillars of the roof will be covered with a mask of tree-bark and the supporting trusses of the roof will be entwined with

Developments of the farm tractor in recent years and the winning of its place as the most important equipment for the

tors will have the opportunity of com-

paring the primitive tractor of a few

tractor of today.

comforts for visitors.

years ago with the wonderfully efficient

There are 40,000 tractors in use in the United States, and practically all of this number are in use in the Middle West and Southwest. Illinois leads with Kansas a close second. A large number

of the dealers planning to attend the Implement Dealers' show in Kansas City

will stay over for the tractor show. The plans for the building include various

rooms will be provided and a military

band will supply music at intervals dur-ing the day and evening.

Spacious

rest-

land.

all similar shows in point of attendance and the volume of actual orders booked. Tractor dealers as far east as New York and as far west as California, and sep-resentatives of the Allied governments have signified their intention of being in Kansas City for the Tractor show. The English government is buying thousands of tractors to cope with the conditions brought about by the submarine cam-the state of the submarine cam-the submarine cam-the state of the state of t

English government is buying thousands Now, these are good sized towns; of tractors to cope with the conditions there are several trains a day—most of brought about by the submarine cam- them late—several depots, and any paign. It is estimated that 2 million number of places classed as hotels. acres of land heretofore uncultivated in The result is that people often spend the Beitich Take is now in use and trace many precious hours together with the British Isles is now in use, and trac- many precious hours, together with tors manufactured in the United States much worry and some strong language, have been employed extensively for plow- chasing each other around town and ing and other work in all parts of Eng- back and forth between the camp and land one or the other of these two towns, when a little forethought would prevent

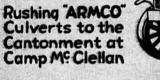
The growth of this comparatively re-cent farm necessity has in a very short time reached mammoth proportions. Few persons have any conception of the mag-Soldiere? towns have "Community Houses," which are sometimes known as here for men in case of emergency, altho the proper place to address mail and ordinary correspondence is to the regmodern farm will be shown in various ular camp address given by the men-stages. The officials of the show believe Both these places have Ladies' Par-that one mamifacturer in particular will lors, a list of clean rooms, a free teleever made in the United States. It is information, plenty of stationery and a crude looking machine—a freak, so to a place to write letters. speak. The first tractor had six wheels and developed about 4 horsenower. When

Visi- the War Camp Community Service of com- ganizations of these two towns in cooperation with the War Department Commission on Training Camp Activ-Commission on Training Camp Activi-ities, and no charge is made for any service each may render. V. P. RANDALL, Manhattan, E. L. ENGLISH, Junction City. Representatives for War Department Commission on Training Camp Activi-ties.

ties.

Sugar sent to the bottom of the sea by enemy submarines cannot always be prevented by Americans but sugar waste in the bottom of tea and coffee cups 1 to be severely condemned in this national crisis.

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Installed guicker - Last longer

PROBABLY some of the fastest road making ever done in this country was during the recent construction of the Nation's new training camps.

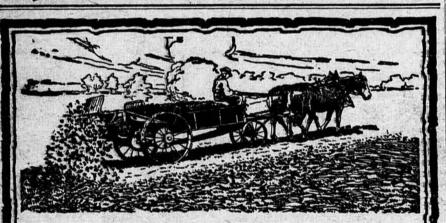
This speed was partly due to the fact that many

RMCO CORRUGATED CULVERTS

could be shipped on a day's notice, and could be installed in a few hours' time by inexperienced labor. Long years after the war is over these culverts will be

doing duty. Or if the camps are abolished the culverts can be dug up and used again, because they are made of "Armco" Iron. They resist rust for many, many years be-cause made of an iron practically free from impurities.

For full information as to rust-resisting "Armco" Iron Cul-verts, Flumes, Sheets, Roofing, and Formed Products, write to ARMOO IRON CULVERT MFRS. ASSOCIATION CINCINNATI, OHIO



No. 8 Spiral Wide Spreader Latest in Harvester Spreaders

WE have added the New No. 8 Spreader - spiral wide-spread, light-draft - to the Low Corn King, Cloverleaf and 20th Century lines. We are in a position to suit exactly any farmer, whatever his previous spreader experience has been.

whatever his previous spreader experience has been. If you have not yet had an opportunity to study the fea-tures of the No. 8, the spreader for every average farm, the lightest-draft spreader made, write us and we will put you in touch with the dealer. No. 8 has the famous International spiral wide-spread that has thoroughly demonstrated its suc-cess as a wide spreader for all-around use. In addition, the Low Corn King, Cloverleaf and 20th Century lines provide you with your choice of larger capacity spreaders, with the regular disk wide-spread (well known wherever spreaders are sold) or with the spiral spread on special order.

regular disk wide-spread (well known wherever spreaders are sold) or with the spiral spread on special order. The New No. 8 Spiral Wide Spreader and other Low Corn King, Cloverleaf and 20th Century spreaders will go onto many thousands of farms this year. They are all light-draft, low-loading, easy-handling, built of steel — and satisfactory. It will pay you to write us for catalogues. Write the address below: below.

International Harvester Company of America (Incorporated) USA CHICAGO Osborne H LY Champion Deering Milwauke McCormick



This Mark Appears on every section

A Much Better Use of Grass

Colorado Farmers are Using Modern Methods Profitably BY F. L. CLARK

doing far better than under the old sys-tem of grass feeding the year around. Hundreds of other stockmen, disgruntled by the encroachments of settlers, have either quit the cattle business or have been forced to the wall because they did not, on the curtailment of the range, supplement grazing with feeding.

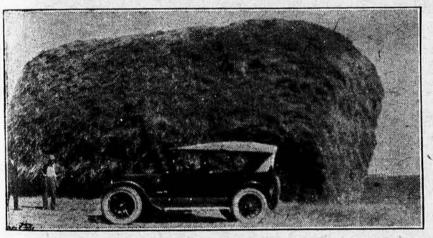
In the Range Country.

Q UALITY cattle are the money-makers today. Good blood and a full stomach are the secrets of success. While grass is still used to a imited extent to winter the animals on, cottonseed cake, alfalfa hay, wild hay, the silo and farm roughages are becoming the more dependable feeds for from four to five months of the winter season." The words are those of John E. Painter, a western stockman who, by adapting himself to new conditions, is doing far better than under the old sys-tem of grass feeding the year around. Hundreds of other stockmen, disgruntled

The Cropping System.

Mr. Klug's ranch now consists of 20,-000 acres of deeded land and 6000 acres of leased land. As high as 3000 cattle, all Herefords, have been on the ranch in the last year.

The uplands of the ranch are used In the Range Country. Mr. Painter's ranch is in the Platte River Valley in Northeastern Colorado, one of the most famous ranges of the days of the cattle kings. As the coun-try settled up and the range was re-stricted, the free range that was left became overstocked. The continual tramping and unrestricted grazing soon ruined the land for grazing purposes. It was about that time that many of the old outfits closed out. Mr. Painter bought up railroad land and all the



A Great Deal of Hay Was Stacked Last Summer in Eastern Colorado, and This is Helping Now in Taking Cattle Thru the Winter.

"The judicious use of pastures" is Denver. the key to success he believes. "Grass, grass, grass," he says, "our commonest, Suc grass, grass," he says, "our commonest, least recognized and yet most valuable of all agricultural products is once more gaining in this territory, and its value is being recognized more generally now that it has gone into private ownership. The settler as well as the stockman is being convinced mainly thru the hard school of experience that this is one of the places where it is hard to improve on nature—many of us yet have to learn the judicious use of our pastures. Nature never meant the roots of grasses Nature never meant the roots of grasses to be eaten as well as the blades. Furthermore, in this semi-arid region, our grasses will not give the results, if eaten so closely as is permissible in countries where the rainfall is greater."

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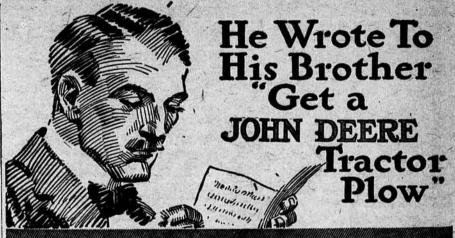
Hay is a Paying Crop. Mr. Painter believes also that there is more profit in keeping good wild hay and than in subjecting it to the plow for why plow it up, he says, "when it without the aid of that luxury and searcity, 'the farm hand." The photograph shows one of the im-mense stacks of wild hay that the stockmen in the vicinity of Mr. Painter's in the Infinite wind to be the largest single land holding in Northern Colorado. Mr. Klug has been ranching for 30 years in the same place. As the stock-raising constantly to the new changes and with excellent results. He arrived about nine years after Colorado

other land he could get hold of, and substituted for ranging the pasturing of stock in fenced lands, saved his meadows for wild hay for winter feed. ing and grew forage crops. At the same time he instituted "fewer and better cattle" as his policy. He now has one of the prize-winning Hereford herds of the West. "The judicious use of pastures" is

Success in Kansas Farming

BY STODDARD JESS

The success of the farmer requires a proper understanding-of his mission as a farmer. He should know that his first duty is to produce everything that is needed for the support of his family, that he can produce on his farm, devoting the part of his land remaining to the production of such crops as it may be best adapted to raise. The farmer who produces what his family consumes buys of himself and sells to himself, thus saving two profits, which he otherwise would have to pay to the middleman. The farmer who produces what his family consumes lives better, because he



6 B I

"You ask me what I think about your buying a tractor.

"Judging by my own experience, I'll say that you have done the right thing. But I want to give you some good advice that a neighbor gave me when I decided on tractor farming. 'Remember,' he said, 'that the tractor only pulls. It's the plow that makes the seed-bed.'

"You ought to get the best plow you can buy to use with your tractor. That's just as important as buying the tractor itself.

"I bought a John Deere plow when I bought my tractor and I am mighty well pleased with the work it does. It is unusually strong and light running. It saves fuel, and fuel costs a good deal these days. It doesn't have any chains and sprockets to cause trouble. It is so easily operated and dependable that I can keep my attention on the tractor while plowing. And best of all, it leaves a perfect job of plowing behind it. The best advice I can give you in connection with your tractor is 'Get a John Deere Plow."

And that is the best advice anyone can give to a man who intends to buy, or already owns, a tractor-get a



Use It With Any Makes a Good Tractor Pay

A John Deere Tractor Plow repeats its first great value to you year after year. It continues to make better seed beds. Its use means repeated plow profits for you instead of repeated plow invest-ments by you. Its seed bed-making service makes a good tractor pay.

Operating Economy

A John Deere Tractor Plow in your fields saves time, labor, fuel and plow up-keep. You operate it from the tractor seat. It requires little or no attention as you drive down the field. Its extraquality bottoms scour perfectly. Its extra clearance prevents clogging. In turning at the end of the field, a slight pull on the trip rope causes the powerful power lift to raise the bottoms high and level.

Because of the location of the axles, the bottoms, when lowered, reach full depth instantly and stay in the ground. Perfect balance and superior bottom qualities make the plow extremely light draft -fuel-saving. There are no chains or sprockets to cause trouble. Every part is as strong as the best of material and hip can make it.

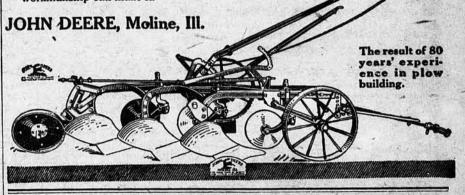
Standard Tractor You can use a John Deere Tractor Plow

You can use a john Deere Tractor Flow successfully with any standard tractor. If your tractor is small, get the No. 5, carrying two to three bottoms. If your tractor is of the larger type, get the No. 6, carrying three or four bottoms. Insist on a No. 5 or No. 6—see them at your Lohn Deere dealer's John Deere dealer's.

Get These Free Books/

Write today for our free booklet describ-Write today for our nee booklet describ-ing both the No. 5 and No. 6 John Deere Tractor Plows. It has a message on tractor plow value that you will find profitable reading. Ask also for our big free book, "Better Farm Implements and How to Use Them." Its 156 pages de-write of the search and search and scribe a full line of labor-saving implements—tells how to adjust and operate many of them. It is full of practical in-formation that will help you. Use it as a reference book. Worth dollars.

To get these books, indicate the farm implements in which you are interested and ask for package TP-210.



WHEN WRITING ADVERTISERS MENTION FARMERS MAIL AND BREEZE

Have You Cold Feet? BY MRS. DORA L. THOMPSON Jefferson County

"If I could keep my feet warm, I shouldn't mind cold weather so much," our neighbor said. Many farm women suffer with cold feet. Too often, the kitchen is a lean-to, a room really in-tended for summer use. In houses heated by stoves, it is a difficult mat-ter to get the floors well heated. The room must be kept too warm for com-fort awhile if the floor is to be thoroly warmed. As a covering, we find lin-oleum helps to make a room warmer but is, in itself, the coldest of materials to walk upon.

Casting pride to the winds, we have-several times worn felt shoes. In these there is little cause to complain of cold there is little cause to complain of cold feet. The difficulty one meets in wear-ing felts is that a change to a dress shoe is like putting off winter cloth-ing for summer apparel. One Kansas woman who accompanied a son and daughter when they took up home-steads in Dakota told how she kept her fort merry. She cut pieces the size and feet warm. She cut pieces the size and shape of her shoe soles from old furs and placed them in her shoes. She wasn't bothered with cold feet from that time.

We can believe the fur would prove a warm sole from a little personal exa warm sole from a little personal ex-perience. The other morning when the thermometer registered 20 degrees be-low zero, we took our turn at baking the buckwheat cakes. We knew the floor at that time would be unbearably cold so we slipped on the man's sheep-ekin boots. They are the warmest shoes we've ever tried. We shall get something of the sort to fit another season. season.

An excellent discussion of the train-ing of farm boys and girls may be found in The Country Gentleman for January 12. Nellie Kedzie Jones in a yet his stage of development makes tory, "Starting the Right Way," em-phasizes the value of chores. To quote one paragraph, let us select the one on chores especially, tho many others are equally good. Every man who loves his family likes to feel that they are comfortable. An uncomfortable and inconvenient house is usually the result of a woman's lack the children the old, old stories, for we lack of judgment. Men like things should tell them over until the usually contact and the tactful woman can An excellent discussion of the train-

habit I should try to develop in 8-year-old Mary and 6-year-old Tom. He is none too young for a regular program. A chore is something that must be done over and over again. A chore is hated for its sameness. A chore is what everyone dodges if he can. But chores, after all, are what make the average country lad more reliable than the average city boy. Chores mean two things—regularity and reliability. No child can plant its feet too early on these two foundation stones of char-acter." A chore is something that must be done

Carrying wood and kindling, taking water, milk and grain to the chickens, clearing away dishes, brushing the hearth and helping to set the table have been regular chores 10r our two older children. To be sure, the dishes suffer and sometimes the chickens are given a scare by their vigorous throwing of grain.

We have been sorry to see that some st of our choice roosters have frozen wat-tles and one has a frozen comb. This ar one was the last to moult. We have wondered if his condition would make him more sensitive to cold. We are told that we could prevent the frozen watthat we could prevent the flocal that. tles by rubbing vaseline or oil on them. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that they are dipped in the Nights. The fact that the Nights. The fact that the Nights. The fact that the Nights. The fact the Nights. The fact that the Nights. The fact the Nights. The fact the Nights. The fact the Nights. The Ni

not get many eggs but an average of a dozen a day or more has been kept up during the coldest weather. The fact that they lay at all, we think, is due to the milk they have to drink. Milk is more plentiful than soft water, at the house, and they get more of it. It is very seldom that our cistern is dry but that is draw at an event. The beginning of the year usually re-tractional of the Elephants--Kipling's Jungle Book. Take An Inventory of the Home BY HENRIETTA KOLSHORN The beginning of the year usually re-tractioned of the generation of the year usually rebut that is the case at present.

Prune Pone

Scald 1 cup of cornmeal with enough boiling water to make a very stiff batter. Stir in 1 cup of rye flour and 1 cup of wheat flour, add $\frac{1}{2}$ cup of mo-lasses, 1 cup of sour milk, 1 teaspoon of soda and 1 cup of washed chopped prunes Staam in a mold 3 hours or prunes. Steam in a mold 3 hours or bake 2 hours in a moderate oven. Serve or with sweet sauce or hot molasses.

With the Home Makers

Tell Me a Story, Mother

Tell Me a Story, Mother BY ANNA MAE BRADY S TORIES have been one of the chief means of developing the race. They play just as important a part in the development of the child has is line itself and the story is the best way of explaining it. Most mothers realize their importance not only in an educational way, but also for the different ages of their children, if the different ages of their children, the shoe brush, a rattling window to be

the drain for

for they well know that the fairy tale so pleasing to their 6-year-old would only year-old would only provoke laughter from the 12-year-old, with

his superior wisdom in regard to fairies. ironing stand or a kitchen stool.

have nothing better now-a-days. We should tell them over and over until the are equally good. "Remember for your own comfort and child knows them perfectly, but we afford to get for her, if she knows how encouragement that a good habit can need to have a sufficient number in to meet the situation thru wise sug-hold on just as hard and just as long mind so he will not tire of any of them. gestions and planning. It may often as a bad habit. 'Choring' is the first Below is a list of stories suitable for require years of patience. Women place mind so he will not the of any of them. gestions and planning. It may often Below is a list of stories suitable for require years of patience. Women place different ages of children. The books such a low value on their own worth. different ages of children. The books from which they are taken may be obtained from any book dealer. If he does not have them on hand, he can easily get them.

Stories for children 4 to 7 years:

The Gingerbread Boy-Stories to tell to

The Gingerbread Boy-Stories to tell to Children. Little Black Sambo-Bannerman. The Three Billy Goats Gruff-Grimm's Fairy Tales. How Brother Rabbit Fooled the Whale and the Elephant-Stories to Tell to Children. Briar Rose-Grimm's Fairy Tales. The Elves and the Shoemaker-Stories to Tell to Children. The Three Bears-The Three Bears. The Coal, the Bean and the Straw-Grimm's Fairy Tales. The Little Fir Tree-Andersen. Epaminondas and His Auntic-Stories to Tell to Children.

For children 7 to 9 years:

The Lad and the North Wind—Dasant. The Pea Blossom—Andersen's Fairy Tales. Why the Chimes Rang—Why the Chimes

Why the Chimes Nang-Way the Rang. The Brahmin, the Tiger, and the Jackal-Stories to tell to Children. The Little Hero of Harlaam-How to tell Stories to Children. The Ugiy Duckling-Andersen's Fairy Tales. Little Half Chick-Stories to tell to Chil-dren.

ren. Peter, Paul, and Espen—Dasant. Hansel and Gretel—Grimm. Beauty and the Beast—Grimm.

For children 9 to 12 years

The beginning of the year usually re-quires an accurate inventory for a well established business. The business of home making is no exception. Many women know without taking an inven-tory just what they have, but they often do not know what they do not have. Have you ever made a list of the needs in your home and ther begun have. Have you ever made a list of the needs in your home and then begun by satisfying those needs and checking them off the list? Why not try it with the aid of the men in the family? It is easiest to begin with the simple little things first, such as, a hook for

kitchen sink or station-ary wash tubs. He can adjust tables to the right height and make convenient 8

They will get along somehow rather than make the family realize that they should not do any heavy work that ma-chinery can do for them.

A man of moderate means was one day showing the extension workers a simple water system, a bath room, and a washing machine that he had in-stalled. This man had made all the plans and had done most of the work himself, thus reducing much of the cost. He displayed his work with much gen-uine pride and then said in a low voice, so his wife could not hear, "My wife thought she could get along somehow without these but I knew better. Why, she would have been an old woman before her years if I had let her do that heavy work, and she never could keep the house and family clean without this system." The man had better judgment than his wife, but he also had the good sense to know how to best use his superior knowledge so as to make his family the happiest.

Few women know as much about installing water, light and heating sys-tems as do men. Yet these are the three items that do the most to promote human happiness in the home. Why not let the men do the planning? Very few men will admit that they water when the rooster drinks accounts for their being frozen. Eggs, here, are 46 cents a dozen. It does not take very many eggs to place three figures in the credit list. We do dozen a day or more has been kept up during the coldest weather. The fact cannot improve these conditions in their soon become sour, unhappy, complaining drudges instead of light-hearted, happy, rested homemakers. It is a great pity that the men do not realize how very important a factor they are in the big task of keeping the women happy. If they only realized their own value they would do their share of the task better.

Pictures are Silent Companions

Pictures as well as individuals have

Agricultural College, says family por-traits have no place in the living room. She does not believe they should be paraded before strangers any more than private family affairs. The nature of the room determines the pictures, but the wall space to be filled as well as the color scheme of the room should be taken into consideration.

Raphael's Madonnas. Landscapes are appropriate.

Raphael's Madonnas. Landscapes are appropriate. In the bedroom, one's choice may have free sway so long as the effect produced is restful. Family portraits and photographs of one's friends are appropriate, and any other pictures of which the person is particularly fond. Pictures in the boy's room should stimulate him to patriotism, chivalry, spirituality, and industry, and should foster kindness to animals, believes Miss Palmer. "Hosea," from Sargent's "Frieze of the Prophets;" "The Forge of Vulcan," by Velasquez; "Oath of Knighthood," by Abbey; "The Sower," by Millet; and "The Spirit of '76," by Willard are all good. Animal pictures by Bonheur are also desirable. Pictures suggesting noble woman-hood are appropriate for the girl's room. Madonna and mother-and-child pictures are especially fitting. Other desirable pictures are Reynolds' "Age of Innocence," "The Strawberry Girl," and "The Broken Pitcher," as well as "The Bance of the Nymphs." by Corot.

Innocence," "The Strawberry Girl," and "The Broken Pitcher," as well as "The Dance of the Nymphs," by Corot.

Dainty Combination Suit

You will be delighted to add the ladies' and misses' envelope combination 8613 to the dainty spring outfit. It is to be slipped on over the head and there is an extension on the lower edge of the back which goes between the knees and buttons to the front. Lace fin-



ishes the neck, armholes and the lower edge, and ribbon run thru beading reg-ulates the fullness. There is also a pattern for a short circular skirt which may be sewed onto the chemise if de-sired. Sizes 32 to 44 inches bust meas-ure. This pattern may be ordered from the Pattern Department of the Farmers Wail and Breeze Topeka Kan Price

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January 26, 1918.

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THE FARMERS MAIL AND BREEZE

Young Kansans at Work

occasion, and the roar of many drums for some special event. There are the chief's drum, the war, or call, drum, the carrier's drum, and the dahce drum.

The biggest drum of all is the war drum. When beaten with clubs wielded with all the strength of two men, it can be heard 18 to 20 miles away. There are smaller war drums, however, that are carried into battle. These drums consist of a hollow block of wood, fancifully carved, with a skin tightly stretched across one end and pegged down. big war drums have a skin stretched across each end.

The dance drum is another instrument with a tremendous capacity for sound, says a writer for the Classmate. Missiduaries have written home of the nights made hideous by the yells and shrieks of made hideous by the yells and sinters of dancers and the pounding of drums, the pandemonium lasting till well past day. light. The music (?) is described as "neither mellowed nor harmonized by dis. The needle will not only be standing tance,

The Africans are a music-loving people, and it is a pity that their instruments are of the crudest and most discordant kind. With the most of them, however, who have never heard anything better than the drum or the gourd piano, the noise is the thing. The carrier's drum is used to direct

lost members of a caravan back to camp. When Bishop Lambuth was in Africa he and the other members of his traveling and the other members of his traveling party were lost in the jungle for two days, having fallen behind the guides and head carriers. The bishop tells of the joy that filled their hearts when they first caught the sounds of the carrier's drum, tho it was miles away. The na-tive runners in Africa can tell by the way the drum is beeten just what is meant are approaching, or that the chief is waiting for them to assemble to hear what he has to say. Again, the call tells them to hasten to their huts—there is an angry lion or an elephant about to charge down upon them. Another time the drum roars out a warning that a but is on fire.

The drum is the African's wireless. It announces news from one village to another. A British official tells of the time Colonel Roosevelt was in Africa, and of how the African drum far out-distanced the Marconi system. The of-field sent a message by wireless to a village 40 miles away, announcing the coming of Roosevelt. Ere the message reached there was a far and a sent a s reached there, relays of African drums

had already made the announcement. The piano drum, which is also a dance drum, shows a good bit of ingenuity both in construction and the manner of manipulating it. It is semicircular in shape, the ends curving above the player's head. There are 18 to 20 keys, arranged side by side, and following the curve of the instrument. Each key is 3 to 4 inches in width and 12 to 15 in length. Under each key is a courd attached by means key is a gourd attached by means resinous gum or a bit of cement. The s are of different sizes. Two drum are used by the player, one in each When the keys are struck by the sticks, each gives out a different Sound.

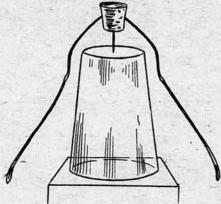
A Needle Will Stand on Glass

BY MYRA KENTON LOWDEN. When Christopher Columbus once asked a number of guests who could The answer to the name puzzle in the make an egg stand upon its end, nobody the feat by cracking the end of the egg. It was merely a question of knowing how.

See if you can make a needle stand

Drum is the African's Wireless HE DRUM not only takes the place -a large jug cork; two forks, exactly the same weight. Stick the forks into the cork exactly

 $\Gamma_{\rm of}^{\rm HE}$ DRUM not only takes the place Stick the forks into the cork exactly of bells in Africa, but it is the opposite each other; push the end of chief musical instrument. It can the needle into the center of the small readily be surmised that it is far from a end of the cork; turn the glass upside melodious one. down, on a small box, to keep the forks Most villages own a variety of drums, from hitting the table; arrange the big and little. There is a drum for each whole as in the illustration. If you have



It Will Rotate for 20 Minutes.

The needle will not only be standing on its point on glass, but you have a bit of "perpetual motion" machinery that will rotate from 20 to 30 minutes, depending, of course, upon the perfection in placing the center of gravity.

Army Cots for Soldier Dolls

Army cots are a novel idea in doll furniture and they are especially pleasing to the little girls who have brothers in the army. They are used in the place of beds and are easily made. Strips of wood form an X for each end of the cot. The lower ends of these crosspieces form the legs. Three longer pieces connect the first caught the sounds of the carrier's drum, tho it was miles away. The na-tive runners in Africa can tell by the way the drum is beaten just what is meant. So, too, the villagers are warned of danger or informed of occurrences by the beating of the drums. Sometimes the sounds are such it tells that strangers are approaching, or that the chief is with the bas to carrier the two long strips the top, bound around the two long strips and left loose enough to sag a little, finishes the cot, which is a small dupli-cate of the cots used by real soldiers. If the joints are made loose enough so the cot will fold up, all the better. The waiting for them to assemble to hear with the bas to carrier the coll tells ends are 36 inch by 9 inches by 36 inch ends are 3% inch by 9 inches by 34 inch. The connecting pieces are 17 inches long. The handle of a child's broom, sand-papered, would be just the thing for these. The canvas is cut 10 by 18 inches. A doll aressed in Red Cross uniform, given with this soldiers' cot, will fill any little girl's cup of joy to overflowing.

What Word is This?



postcards will be given each of the first five boys and girls sending neatly written correct answers.

According to an English dispatch, baon its point on the bottom of an inverted con is not procurable in many butcher glass tumbler. It sounds ridiculous but shops in London. In shops able to get is a trick that can very easily be done. supplies, the price ranges as high as 60 First, have at hand a needle, any size; cents a pound for grades of bacon that a glass tumbler with a smooth bottom; before the war sold for 18 cents.



13



CAPPER, CONTEST CLUB, 630 Capper Building, TOPEKA, KANSAS

The Incubator That Will Smash All Hatching Records for 1918

14

GET the book below-and learn the reasons—the 20 big. reasons why the 1918 X-Ray Incubator is sure to smash all hatching records! It's a handsome book -packed from cover to cover with facts-facts that will help every poultry raiser to add to his income to add to his knowledge of real incubator values-to know posi-tively what to expect and demand of the incubator he buys this year.

The 1918 **X-Ray Incubator**

Shipped Express Paid by us to Practically All Points to Practically All Points Post yourself on the 20 Exclusive X-Ray Features - 20 improvements that mean record-making hatches. X-Ray Gas Ar-restor, ingenious device that prevents Jampfinnes entering egg chamber; X-Ray Nursery Tray that assures sanitation, protects little chicks; X-Ray Egg Tester; most perfect Tray. All exclusive X-Ray features that assure record-breaking hatches-leastcost of time, money, labor. Descubes colvore filling cil during entities hatches-least cost of time, money, labor. Requires only one filling oil during entire hatch. Duplex Central Heating Plant directly underneath, furnishes natural, moist, Mother Hen Heat, X-Ray Auto-matic Trip regulates the flame-no cold corners-no overheated sides. Investigate the splendid 1918 X-Ray before you invest a penny in any in-cubator. Write tonight for 1918 X-Ray Book. Use the coupon-or send ns your name and address on a post card.

X-Ray Incubator Co. Des Moines, Iowa



To Win With Poultry

Boosting for Your County BY BERTHA G. SCHMIDT Secretary

INING up the county for complete membership in the Capper Poultry club contest for 1918 affords an excellent opportunity for leaders and their co-workers, the other county members, to display pep.

"How does our county stand in the pep list?" is a question being asked fre-quently now by members of the poultry club. There are many things to be conclub. There are many things to be con-sidered in figuring up pep standing— county meetings, good programs, work-ing in harmony, boosting the club, send-ing in reports on time, write-ups of county meetings in the county papers, accurate and carefully written reports and showing originality along various lines. And now let me add to all of these a factor which is very important at the present time and is showing up the real initiative of the girls more than any other one thing—endeavoring to complete the county membership by. February 1 for the contest of 1918. Just to emphasize the importance of this factor, I am going to tell you how the counties stand in respect to mem-bership for the new club. This is the the countres stand in respect to mem-bership for the new club. This is the order of the first eight: Cloud, Wilson, Clay, Stafford, Johnson, Atchison, Doug-las. Neosho. The last four have the same number of members enrolled. This standing includes only one of the nine factors which I have mentioned as counting toward pep, but it is one of the most important factors at present be-cause eagerness to complete membercause eagerness to complete member-ship for the new contest shows perma-nent interest in the club. Every girl should try to obtain new members, for no county can excel when support does not come from each individual member of the county club. Now let us see which county will complete its member-

ship first. Many girls are now writing for the poultry bulletins which we have for distribution. If you have not received these bulletins, "Selection of Stock," "Chicken Houses," "Improving the Kan-sas Egg," and "Capons for Kansas," mention the fact in your next letter to me and they will be mailed you. They contain much information which will be contain much information which will be found valuable to girls in the business of raising chickens. For example, this paragraph from "Selection of Stock," answers questions which are frequently asked:

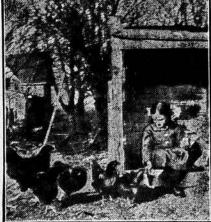
asked: Feeding laying hens: It is too com-mon.a practice on Kansas farms to let the hens shift for themselves during the spring and summer, or at most, to throw them a little grain. Birds fed in this way seldom give a profitable production the following fall and winter. In most cases it will be safest to feed a well-balanced ration, ex-cepting green feed, thruout the spring and summer as well as thru the winter months; the amount is limited to the needs of the hens. Helen Hosford leader of Crawford

Helen Hosford, leader of Crawford county, does not belong to a breed club, for she is the only member of the Capper Poultry club who is raising Butter-cups, but she has written an excellent boosting letter for her chickens. Yes, Helen's "Buttercups" are chickens, not flowers. Here is what she says about them:

I chose Buttercups for my contest run into the duck's mouth, coming out chickens for several reasons. To be-thru the nostril. The long tail feathers but that was not my chief reason for choosing this breed. They are both picked to the first joint, and the neck

proud and tame and can be made pets of very easily, but more important than any of these factors, it doesn't take much feed to keep them and they are great hustlers. Put them on an open range and they will pick up al-most all of their feed. When I shut them up, I at first fed them too much. As a table fowl they excel, for their meat is so sweet, juicy and tender. They lay large white eggs of uniform size. In a hundred, you will scarcely find one ill-shaped egg. "The chicks are hearty and grow fast. The color of the male chicken is a rich. brilliant orange red while the female is a golden buff, with par-allel rows of elongated black span-gles. McPherson county girls held their

McPherson county girls held their December meeting at the home of Mabel Peterson during the holidays. Cold



She's Proud of Her Contest Flock.

weather interfered somewhat with the attendance, but several of the girls' mothers and sisters were present and they had a fine time, despite the decreased attendance.

creased attendance. A number of girls have written about their pleasant visits during the holidays with members of the Capper Poultry club. "Being a member of the club helped me to have a very good time this vacation," said Effie Merritt of Cloud county. "I spent part of the time with Ellen Zimmer. She lives on a large farm and we went out to explore it one afternoon. After my visit with Ellen, she came home with me." The poultry club member pictured on

The poultry club member pictured on the page this week is Mable Weaver of the page this week is Mable weaver of Atchison county. Mable's chickens show up better than their young mistress but Mable is so proud of them that she doesn't mind that in the least. She wishes that every girl in the club could see how big and fine they are.

Dressing Ducks for Market

Ducks may be dressed by dry picking, by scalding, or by steaming. Their condition is best judged by the amount of flesh on their backs. The methods used in dry picking chickens are also used with ducks, altho the ducks are harder to pick. The ducks may be stunned by a blow

on the back of the head with a short club. They are generally killed by sticking in the mouth or thru the throat with a knife which has a narrow blade about 4 inches long. To facilitate handling in scalding and picking, a hook is run into the duck's mouth, coming out thru the nostril. The long tail feathers are/left on the ducks, the wings are

The Capper Poultry Club

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

Signed Age

Age Limit 10 to 18.

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



January 26, 1918.

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halfway to the head. Long pinfeathers in an earthen jar at 10 a. m. were full usually are removed with a dull knife, fed when observed at 2 p. m. The fact and the down sometimes is rubbed off with the moistened hand, burned with alcohol, or shaved with a very sharp knife. Large duck farms usually have pickers who devote their time entirely the deessing of ducks during the killwith the moistened hand, burned with alcohol, or shaved with a very sharp knife. Large duck farms usually have pickers who devote their time entirely to the dressing of ducks during the kill-ing season and are very proficient in work. this

this work. Ducks may be steamed and picked, thus saving the feathers without artifi-cial drying; and as duck feathers are of considerable value, their sale is quite an important item. The wing and tail feathers are pulled and thrown to one side before steaming the ducks. Six or eight ducks, which have been stuck and hung up to bleed, are placed on hooks in the top of a steam box or barrel which can be made air tight and steamed until the soft feathers on the breast come off easily. The length of time to leave them in the box depends on the tem-perature of the steam, varying from one-half to two minutes. Two sets of one-half to two minutes. Two sets of pickers usually pluck the ducks; one set, called the roughers, removing the bulk of the feathers, while the other set of pickers, called the pinners, re-moves the down and some of the smaller feathers. A good method for removing the down is to sprinkle pow-dered rosin over the duck's body and die the bird into hot water, which melts dip the bird into hot water, which melts dip the bird into hot water, which melts the rosin so that the down and rosin can be rubbed off easily with the hand, leaving the body clean. When carefully steamed the birds rarely show any signs of scalded flesh. In some cases the ducks are hung in the steam box with the heads outside, thus preventing the head from being steamed; but when the birds are steamed as described the the birds are steamed as described the heads are not discolored.

heads are not discolored. After the ducks are picked usually they are washed and put in ice water for an hour or two to cool and plump. Each layer of ducks is packed flat in ice, usually with the keels or breasts down, in barrels, or in boxes holding one dozen each. It costs from 5 to 6 cents apiece to pick ducks, but the body feathers and down usually are saved, as white feathers bring from 40 to 50 cents a pound when cured. Each duck cents a pound when cured. Each duck yields about 2 ounces of marketable feathers. Scalded feathers may be dried and sold. The feed cost of grow-ing Pekin ducks to 10 weeks old, when they weigh from 5 to 6 pounds, is es-timated at from 5 to 6 cents a pound. to November, and bring from 12 to 30 cents a pound when sold to commission nuen at wholesale. The highest prices are paid for the ducks marketed early in the spring and they decrease as the season advances and the supply be-comes more abundant. The demand for green ducks has been built up in large cities in the East and on the Pacific coast, and there is very little demand for such ducks in small cities and towns.

Private Habits of Chicken Mites,

The more we know about an enemy the easier it is to deal with him. Chicken mites do so much harm reducing vigor and egg production of the hen, that specialists in the Department of Agriculture conducted an investigation to find out all they could about this wolfish blood drinker.

With its long, piercing mouth parts the mite sucks the blood of the fowl. When full, it crawls from the fowl onto the post, bright red, owing to the blood showing thru the skin.

The mite feeds often, and ordinarily does not have to wait long for a chicken. In the absence of food the mite dies in a comparatively short time, and much faster in summer than in winter.

hight. An experiment was conducted to find out whether they feed and leave the fowl immediately, or whether they have a particular time for dropping off, such inst before daylight, as one writer claims.

Two hours before dark a fowl was put on a roost containing a large number of hungry mites. Very few mites ventured out of their hiding places at this time. A few did go to the fowl. At dark, 2 hours later, only four-mites were found to have fed and left the fowl. But 1 to have fed and left the fowl. But 1 hour after dark nearly 600 had fed and left. In another hour 535 more were satisfied. They continued to drop in small numbers until after daylight. All stages of mites will go on a fowl. All stages of mites will go on a fowl, feed, and leave it in less than two hours.

In one experiment about 30 per cent of a large number of mites put on a fowl

Na state

the fowls leave the roost. Both fed and unfed mites may be retained in the feathers when the fowls are running about. The number of such mites on a fowl seems to be small, but quite suffi-cient to infest a new place. The length of time mites may remain on a fowl after it has been on an infested roost is not certain. Experiments designed to throw some light on this point developed that nearly all mites leave the fowl by the end of the third night, but a few stragglers may persist for several days. It would be advisable for a person in-troducing new stock into his mite-free look to use a little continuit is he much flock to use a little caution if he would avoid an infestation.

New stock not known to be free of mites should be allowed to roost the with pieces of folded paper, preferably black. The object of using the paper is to furnish a convenient place for mites to hide. The paper may be examined, and if mites are found the fowls should be kept on this roost five or six days, or until no more mites come off of the fowls. If mites are discovered, by removing and destroying the papers and treating the roost thoroly with kerosene or crude oil any danger of the mites getting back on the fowls can be avoided. The ease with which mites reach the host has a decided bearing on the rapidity of increase. Hungry mites, tho placed quite near a fowl, have great difficulty in finding the fowl unless the means of access is direct. This fact would account for the mite preferring to hide on the roost. When mites are found all over the walls the infestation must be a heavy one. To apply these must be a heavy one. To apply these facts to aid in control work, the roosts should not be connected up with the walls of the chicken house unless some method of preventing the access of the mite to it_s host is used. The same may be said of the nests. The simpler and more isolated the roosts and nests, the easier it will be to eradicate the mite. The direct rays of the sun act as a

powerful killing agent when mites are exposed to them. Mites put on a board in the direct sun were killed in a few seconds. Need of a suitable dark, protected place for deposition and molting governs the hiding habits of the mite. This may be a crack in a board or only a rough place, or it may be in the dry manure or litter. Here a place for deposition, molting, mating, and resting is provided. A very common hiding place for mites is near the nails that hold the roosts to their supports. When the mites become abundant they will overrun the roost and may be found anywhere in the chicken house. Their presence about a house may be detected by the minute black and white spots, excre-

Wonderful Egg Producer

ment, left on the roosts.

Any poultry raiser can easily double his profits by doubling the egg produc-tion of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents' worth of "More Eggs" and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit-maker, write E. J. Reefer, poultry expert, 4581 Reefer Bldg., Kanaas City, Mo who will send you a second, sumply tomparatively short time, and much Ster in summer than in winter. Mites usually attack their victims at paid). So confident is Mr. Reefer of the results that results that a million-dollar bank guarantees if you are not absolutely satisfied your dollar will be returned on request and the "More Eggs" cost you nothing. Send a dollar today or ask Mr. Reefer for his Free Poultry book that tells the experience of a more who has made a experience of a man who has made a fortune out of poultry .- Advertisement.

A Better Day in Government

Governor Capper can depend on me m his race for Senator or any other office he wishes. His papers are read by men of all races, colors and languages, and they are awakening to the need of clean, honest and "equality to all" government, and will not be satisfied until they get Governor Capper can depend on me in such government. Edward Lind. Athol, Kan.

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Haul manure.





and poultry book Today. There are big profits raising poultry, bigger pro-fits than ever, because of war prices for chickens. This book tells you how you can make money sure. How to secure valuable poultry feed cheap. It's no trouble to raise chickens or ducks or turkeys when you have a Sure Hatch. Safe and durable. Lasts for years. Hatches sound, sturdy chicka. Makes big, sure profits. Thousands of wives are getting big independent profits every year with Sure Hatch.

Here is what Mrs. Thomas Tucker of Illinois, says:—"I write you a few words in regard to the Sure Hatch I purchased from you nine years ago. It certainly has been a sure hatch for me and I don't think I can farm without it. I have always had good hatches." We have hundreds of letters like this. Read them in our big catalogue. See how others have made big profits with Sure Hatch. You can do as well or better. The big poultry book tells you how. Lots of valuable money making infor-mation, all about raising and caring for poultry. Get this book today—sure.



Strong, Sturdy Chicks Make Money

Nearly \$700,000,000 was paid last year to Farmers, Farmers' Wives and Poultry Raisers for Poultry and Eggs. What share of this year's greater amount are you going to get? Get in this big, profitable business now. Get in right. War is bringing bigger profits in poultry now than ever before. Chicken meat must replace all the beef and pork that is being exported. There is a shortage now. Help supply the demand.

300,000 Owners of Sure Hatch-20 Years Experience Don't waste time and money experimenting. Sure Hatch chicks make money sure-because they are strong, sturdy and healthy. The hen herself can't raise better nor anywhere near as many. Sure Hatch is easy to operate. The children can take care of it—it's so safe and simple. Will last for years. It will pap for itself many times over in a year. Some wires have made 1000% profit the first year—over ten times the cost of the incubator.

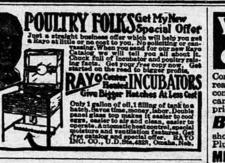
It's Just as Important to Raise Chicks as to Hatch Them



The Sure Hatch Fresh Air Colony Brooder raise all Sure Hatch chicks hatched. Self-feeding, self-regulating; sim-ple, safe, enduring. Costs less than 6 cents a day to operate. Saves little chicks from cold, smothering, etc. Raises all Sure Hatch chicks.

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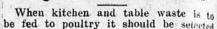
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test flocks. For free catalog, write to the secretary of the breed club representing the varlety in which you are interested. After receiving catalog, write to the girl nearest you who has the varlety you desire. Prices will be quoted on applica-tion and prompt shipment will be made. All members live in Kansas.

Capper Poultry Club rtha G. Schnidt, Sec'y, Capper Bldg., Topeka, Kar



be fed to poultry it should be selected and prepared with a view to getting its full food value and at the same time making it entirely acceptable to the birds.

Using Kitchen Waste for Hens

Not all of the refuse and scraps from the kitchen is suitable for poultry food, Some things, as vegetable peelings, may be used when they constitute only a small part of the scraps, but when they are in excessive quantities it is better to dispose of them separately.

The same is true of coffee grounds and tea leaves. Fat meat in large pieces should not be put with scraps for poul. try because a hen can swallow a much larger piece of fat than is good for her. By cutting waste fat meat in pieces no larger than one would cut for himself at the table, and by making sure that the fat does not exceed 10 per cent of the scraps fed at one time the dangers in feeding fat are avoided.

The best way to save kitchen waste for poultry is to keep a one gallon jar, of glazed or galvanized ware, with a cover in a convenient place, putting into this scraps of bread, cake and meat from the table, remnants of servings of vege. tables, cereals, pies, puddings, etc., and whatever waste from the preparation of meals is suitable to combine with these things in a-mash.

Once a day the contents of the jar should be turned into a pail of ap-propriate size and as much ground feed stuff mixed with them as can be stirred in with a strong iron spoon or a wooden stirring stick. The amount and kinds of ground feeds to be used will depend upon the quantity of water with the scraps and whether any particular article medominates predominates.

For thickening a mixture of scraps of ordinary variety a mixed meal of equal parts by weight, of corn meal, bran, and middlings is good. If there is an un-usual proportion of very rich food in the scraps it may be desirable to use bran alone for thickening. The more meal that can be stirred in and still have all the meal moist the better. Mixing can be done much more easily and thoroly by mixing in a pail having a capacity about three times the amount of the scraps mixed at one time.

If the mash with scraps makes more than one meal for the flock, the pail should be kept covered until the next feeding. As a rule it is not advisable to feed such a mash oftener than twice a day, but if mixed quite dry it may be fed three times. The occasion for this will exist only where scraps are so abundant that when thickened with meal they may be made the exclusive diet. This is not as good a ration as one comtaining some hard grain, but it may be-used a long time without any bad results.

Soda for Sick Chickens

When my chickens get sick I give them when my chickens get sick I give them I teaspoon soda in 1 pail of water. The third day I give them 1 teaspoon coal oil in their drinking water. They do not like the oil and will not drink it if they can get water elsewhere. This is the only remedy I use for cholera or bowel trouble, and find it good: My favorite bread of chickens is Barred

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There's a way to obtain high-grade tires at manufacturers' prices. Write and we'll tell you. Freshly made tires, every one

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and find it good." My favorite breed of chickens is Barred Plymouth Rocks. They are the best all around chicken. When you want one to kill you have one large enough for a big family, and when you sell them they are the heaviest and bring the most for the feed they consume. Mrs. Daisy Snyder.

Howard, Kan.

For Real Service

The people of our community were glad to get the news that Governor Capper is a candidate for United States Senator. Our people rejoice in having him as governor of the great state of Kansas. We believe his wise policies have benefited the public, and we know his presence in Washington as our Sena-tor will bring the same result. I am sure the people of this vicinity will give him hearty support hearty support. Rev. Gustaf Nyquist.

Axtell, Kan.

An ancient worthy says, "Reading maketh a full man," but most of 'em try to explain it another way.

The well-protected potato pit will carry the crop thru the winter safely but lots of emphasis goes on the "well."

January 26, 1918.

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Money from Dairying

Making Cheese at Home

On our farm we have made cheese for a number of years and like the product just about as well as the factory-made article. Our process is as simple as making butter and if this plan is fol-lowed I am sure the results will be very pleasing.

The number of pounds of cheese that can be made from a given amount of milk depends, of course, on the richness of the milk. But as a rule one pound of cheese can be made from five pounds of milk. Use the milk that is drawn from the cows at the evening milking, keeping it cold over night, since the less the cream is permitted to rise the better. In the morning warm this milk to a temperature of 85 degrees and then add the same amount of morning's milk after thoroughly aerating by stirring and pouring to allow all animal odor to escape. Then pour all the milk into a large boiler. We use a large galvanized work boiler. wash boiler.

If it is desired to color the cheese put in about one-half teaspoonful of cheese color to ten gallons of milk. Then add one-half of an ounce of rennet Then add one-half of an ounce of rennet extract to ten gallons of milk or if rennet tablets are, used one tablet about the size of a cent will be sufficient for ten gallons of milk. Dissolve the tablet in a glass of warm water before adding it to the milk. Enough rennet should be used to start the milk to curdle in about fifteen minutes. Using too little or too much rennet is one reason why some people fail in making good cheese some people fail in making good cheese on the farm. In our experience we have never failed to obtain good results in using the amount of rennet named above. The milk should be at a temperature of S5 degrees when the rennet is added and it is a good plan to have the tem-perature slowly rising while the rennet is working but it should not go above 88 degrees.

The cheese is ready to cut when it will break smooth and clean cut for a short distance ahead of the fingers when the fingers are pressed into it. If a regular cheese knife is not at hand use a clean corp knife and cut both ways a clean corn knife and cut both ways making the cuts about one-eighth of an making the cuts about one-eighth of an inch apart. Then stir the curd very gently for four or five minutes after which start up the fire and increase the temperature to about 96 degrees during the next fifteen minutes. It is neces-sary to watch the milk closely during the heating process. Never guess at the temperature. We use a small thermometer. One can be had for a few cents and is useful not only in mak-ing cheese but in ripening cream, coollew cents and is useful not only in mak-ing cheese but in ripening cream, cool-ing milk, etc. To tell when the whey is ready to draw off, press the curd be-tween the hands and if it springs apart when the pressure is removed it is then ready to be drawn off. Add four and one-half ounces of good dairy salt to the cheese curd obtained from 100 pounds of milk.

The mass is now ready to be pressed. If there is no cheese hoop available a strong pail with holes punched in the bottom will answer the purpose, first lining it well with cheese cloth and then fill to the brim with curd. Now place a cloth over the top of the pail to cover the curd. On this place a strong follower that will fit tightly in the pail and apply pressure by placing a block on the follower and over this a pole or 2x4 about ten feet long fastened at one end. Place the cheese two or three feet from the end that is fastened and at the other end place about 25 pounds of weight to make sufficient pressure. Let stand for three or four hours, then doub le the weight at the outer end and let it stand for about 24 hours. The cheese is then taken from the press and rubbed for fifteen minutes with good fresh butter. Sew a bandage around it to keep it from flattening out. Keep this bandage clean and smooth and rub it with butter until thoroughly sat-urated. Put the cheese in a dry, airy place to cure. Rub it every day with butter, turning each time. The rubbing prevents the cheese from molding and the turning causes it to cure evenly. the turning causes it to cure evenly. The cheese may be eaten at the end of three weeks, but is much better at the the original of the set of t the of six weeks. O. A. Choate.

shortage of farm labor will develop next spring in Kansas.

Turn Up the Cream Screw

In skimming a hundred pounds of 35 per cent cream, 15 more pounds of skimmilk is kept on the farm than when the same amount of 20 per cent cream is taken. This saving can be accom-plished by a turn of the cream screw, and at present feed prices is well worth the effort required. More skimmilk on the farms also means more calves raised to supply meat and milk for all. Wilk producers are paid for the butter Milk producers are paid for the butter-fat in cream; not for the water and other constituents. This makes it ad-visable to skim a rich cream, so that as much valuable skimmilk as possible may be saved for feeding purposes.

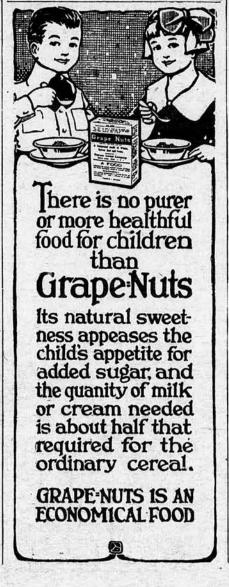
Feeding the Dry Cow

Every dairy cow, in order to give the best results, requires a rest of six weeks or two months between lactations: During this time she should be prepared for her year's work, her tissues built up, and her digestive tract rested and cooled as much as possible. Of course nourish-ment must be supplied for the growing fetus.

If the cow is dry during the summer or early fall she will need very little extra care if she is on good pasture. A pasture separate from the general herd is advisable as there is then less danger of injury. During this period no more grain than is necessary should be fed as it allows the digestive system of the cow to rest, but a few pounds of oats and a little bran will often be found advisable. If the cow is in poor condition a little corn may be added, but it is not advis-able to give much of such heating feeds. If it is necessary to flesh up the cow this should be done gradually

this should be done gradually. If the dry period occurs in winter the ration should consist of 20 to 25 pounds of corn silage, with a liberal allowance of legume hay, and a grain ration con-sisting of a mixture of 3 parts ground oats, 2 parts wheat bran and 1 part oil meal, the amount of the grain ration be-ing governed by individual requirements. During this period the ration should be laxative and should contain little of such heating feeds as corn. Feeds such

such heating feeds as corn. Feeds such as cottonseed meal and timothy hay should be avoided.



A Good Seed Bed Pays Big Moline Economy **Disc Harrow** For many years famous for its light draft and durability. End thrust of the gangs is taken up by spring pressure. Does enceptionally good work in trashy ground. Bearings are durt proof and have oil soaked, maple bushings. The longest wearing, lightest draft bearing known. **Moline Three Lever Disc Harrow** Disc marrow An extremely fierible, deep senetrating, light draft disc harrow. Disc gangs are held to their work by spring pressure and readily follow uneven ground. Difference in pressure between disc gangs perfectly equalized. Frame is so constructed that the disc gangs do not ride or bump. Bear-ings are dust proof, and have maple bush-ing-extremely long wearing and light running. Discs are of the finest steel, very sharp and highly polished. Either round or cut-out disc blades will be furnished. A rear section for converting the Moline Three Lever into a double cut disc harrow will also be furnished. Your Moline dealer handles these splendid harrows-see him. If there is no Moline dealer in your locality write us for full information. Address Dept. 23 Moline Plow Company, Manufacturers Stalk Cutters Hay Loaders Side Del,Rakes Dump Rakes Potato Diggers Rice Binders Grain Binder Plows (a Stailed) Grain Drills Lime Sowers Seeders Harrows Planters (852.*) Corn Binders Mowers Cultivators Reapers Listers Moline-Universal Tractor MP ~~~~ For Over 50 Years the Mark 95 Sent on Trial rge or small, or if you have separator of any make to at offer. Our richly illustrated catalog, sent free on r and interesting book on cream separators. Western of and interesting book on cr Write today for catalog is a great healing ointment that should find a place in dairy. It against the normal, easy milk yield by keeping the heality and free from sorce, cuts, ohaps, bruises, crecks, bunche inflammation. Caked Bag responds quickly to the penetrating, h powers of Bag Baim. Cow Poz, fews spots and any exterior so promptly removed. Have Bag Baim on hand to keep little hurs stilling big. Sold in generous 56e packages by feed dealers and druggista. Write DAIRY ASSOCIATION CO., - - . LYNDONVILLE, VT. YOU CAN SELL IT

through the advertising columns of Farmers Mail and Breeze. read the advertising columns of Farmers Mail and Breeze. You read the advertisements of others. Others will read yours. If you have purebred poultry for sale, a few hogs or dairy cows, a piece of land, seed corn, or almost anything farmers buy, it will pay you to tell about it through our advertising columns, either classified or display. The circulation of Farmers Mail and Breeze is 105,000 copies each issue. The cost of reaching all these subscribers and their families is very small. If it pays other farmers in your state to advertise with us, will it not pay you? Many of the largest, most experienced advertisers in the country use our columns year after experienced advertisers in the country use our columns year after year. It pays them or they wouldn't do it. Others in your own state are building a growing, profitable business by using our col-umns in season year after year. Why not you? If you don't know the rates, address Farmers Mail and Breeze, Topeka, Kansas.

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You can't raise the best crops, no matter how good your seed or how rich your soil, unless the seed is placed in a well prepared bed. By using a Moline Disc Harrow you can get a fine, compact, mellow seed bed in which the plant food is quickly available and moisture is retained.

Moline, Illinois Spreaders Scales Wagons Vehicles





What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO.

Pink Eye.

Several children in our school have pink eye and it seems to be spreading. Please tell me if it is contagious. What can we do for it? Is it anything like conjunctivitis? L. L. D.

• Conjunctivitis is the medical mame for pink eye. It is decidedly dangerous. Al-tho many eases clear up without any trouble, the cases in which it becomes chronic make very serious trouble in-deed, and may cause defective vision that lasts a lifetime. It is possible to have pink eye of a non-contagious or only mildly contagious type, but usually w when it begins in a school it creates an epidemic and demands strict measures to check it. In severe cases small hemorrhages may form in the eye. There is a discharge of a mixture of mucous and pus that is very annoying and offensive and often gums the eyelide to-gether in the morning. To prevent this the eyelids should be anointed with boric acid ointment at bedtime. Mild cases of pink eye usually will get well in a week by the simple treatment of resting the eyes and using a mild antiseptic wash such as a saturated solution of boric acid. To rest the eyes the child should be kept out of school, and not allowed to read or do any close work, nor, may I add, should he be allowed the strain of moving picture shows. In a case that does not clear in a week, it is very important that special medical treatment be secured.

"Cedar Itch."

Please publish this in your paper. My brother is troubled with "cedar itch." Any-one knowing a cure for cedar itch please write and tell me. JAMES HARTNELL. Frontier, Minn. I admit that I don't know what this

I should like to know if it is at all common. Subscribers who have remedies to suggest please write to Mr. Hartnell direct, as he requests.

Rhubarb Leaves Poison.

Recently I have heard that rhubarb is a deadly poison and that several persons have been killed by it. Please say in the Farmers Mail and Breeze if there is any truth in this. SUBSCRIBER.

I think the report has its foundation in the fact that some persons in Eng-land, pushing food economy to the limit, ate rhubarb leaves as a salad and several were rendered violently ill and one or two died. No doubt the deaths were due to oxalic acid poisoning. Rhubarb leaves contain much more of the acid than do the stalks, and experience seems to show that the stalks are a reasonably safe article of diet.

'Cracked Lips.

What can I put on my lips to heal the chaps and cracks that occur in windy and cold weather? C. D. It is difficult to put anything on that will do much good so long as you persist in going out in the weather. Collo-dion helps if you put on enough to make a scab, but it bites in a very disagree-able way. Stay at home and enjoy yourself for a few days while the cracks heal under the application of zinc ointment. Then take the precaution to anoint your lips with borated vaseline before facing the cold and wind and they will not crack.

Service at Home.

Do you know of a place where a middle aged woman could get a place to care for some old people or work in a hospital? She is great at nursing and caring for the sick. B. A. B.

A middle aged woman of intelligence who will take time to study the subject and is willing to be guided by the medical sense of the doctor ought to be in-valuable in any community in nursing the sick. This is especially true now that so many nurses and doctors have gone to war. Stay right at home; write to the state librarian for some good books on domestic nursing; get your local doctor to advise you, and you will be able to do valuable and remunerative service.

Frozen Feet.

Please tell me some remedy for frozen feet. The burning is almost unbearable; then they swell so badly and are so tender that they are easily frosted again. If there is no cure is there not something which will afford relief? A. R.

Frozen feet cause burning and itching because the circulation has been partly cut off and is not active—the tissues are not fed properly. Anything that will improve the circulation of the body

as a whole and of those parts in partias a whole and of those parts in parti-cular is helpful. Bathing in hot water gives temporary relief, but cold water with brisk rubbing does more permanent good. Going to bed with warm stock-ings on is important. Massage of the frozen portions should be practiced every day. Great care should be taken that the given is not impoded by tight the circulation is not impeded by tight shoes or stockings.

Mrs. V. J.: Mrs. V. J.:
1. The first symptoms of pneumonia are chill, fever, cough and difficult breathing.
2. Sickness from poisoned food usually is manifested by vomiting and purging.
3. The symptoms of spinal meningitis are many and varied. One important symptom is rigidity of the muscles of the neck and back.
4. I cannot venture to guess the cause of death in the case you mention. Guesswork is too unreliable in such important matters.

W. E. F.: Have a careful examination made for broken arch. If this shows nothing have an X-ray picture taken of the foot. Your symp-toms suggest the possibility of an important disease that should have early treatment.

Labor Problems of 1918

Farm labor problems in Kansas are more acute than ever, and no real solution is in sight. You can hear much talk about them no matter where you go. Some men have worked out a sysgo. tem go. Some men have worked out a sys-tem of management that they believe will hold together for 1918, but most farmers either are trusting to luck or frankly confess they are "up against it." There is some talk of federal con-scription of labor for farms, but most farmers believe that the help obtained by such a measure would be decidedly inferior. inferior.

It seems to me that our one "best bet" in solving the farm labor problems this year is in the more general use of machinery. /This solution has some obvious limitations of course, but still on a great many places in Kansas it will be possible to do much more of the work by machinery than has been the rule.

Undrafted War Profits

Packer Swift admits his profits broke the record in 1917. They were more than 34½ per cent on 100 million dollars of capital stock. In 1916 they were better than 2714 per cent, he says, on the then capital of 75 million. Within the year Swift & Com-

pany has added 25 million to its capital stock besides making a profit of 341/2 per cent on the en-tire 100 millions!

But in the race for great wealth there are swifter contenders than Swift. The Youngstown Sheet & Tube company; Youngstown Sheet & Tube company; Youngstown, O., will pay 100 per cent on last year's business, if the United States Supreme Court decides a stock dividend is not income and subject to war income taxes. Big subject to war income taxes. Big business approves of war profits but is "opposed to weakening the nation's industrial strength" by taxing war profits for war rev-enue. Let the people pay that. The Gisbolt Machine company of Wisconsin has just filed its sworn statement as required by

of Wisconsin has just filed its sworn statement as required by the laws of Wisconsin, showing it made nearly 100 per cent profit the first year of the war and about 200 per cent profit in 1916. This machine company's capital stock is \$1,250,000. Its profits in 1915 were \$1,130,000. By 1916 they had swelled to \$2,376,884. In 1916 it made about \$2 profit on 1916 it made about \$2 profit on

every \$1 it had invested. If Congress proposes to let big business continue to roll up these enormous gains at the expense of the people's pockets and the nation's war needs, how can it jus-tify its pitiful 31 per cent tax on these profits with its straight-out drafting of the people's blood and resources? How can it continue to take only 2 billions of war taxes a year from excess profits and 17 or 18 billions from the manual? people?

These are questions this term of Congress must answer. The selective draft for men is now generally approved, so is the selective draft of money, and notwithstanding this meets with the hoggish resistance of those who have it, the people expect Congress to make that draft adequate and com-pulsory.

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Don't buy any eeparator — no matter what price— until you get Galloway's brand new separator propo-sition. Look around all you please — examine all the best separators you know—get posted thoroughly but don't decide — don't order until you hear what a wonderful separator I can give you and how much I can save you on the price. Send Coupon for my Free Book and read every word of Galloway's great new separator offer. It will mean money in your pocket. My FREE Book shows the Secrets of Separator Selling

I have laid bare the truth on separators. I have gone straight to the heart of the separator business. I can give you the whole story from the raw materials to the finished product because I know. Remember, I don't just sell separators. I design them and make them right here in my immense factories at Waterloo (one entire building is devoted to separator making alone) so I understand separators from every angle and am ready to give you —without cost or obligation—all this separator knowledge—facts you ought to know about separators before you invest your good money. Get the book now—send the coupon.

Buying Direct from Galloway Saves You a Third to Half This wonderful free book tells about the various methods of separator selling. If p figures how buying direct from Galloway—the actual maker—saves you a third to a ball in real money. My book tells you in a clear, logical way how buying a sep-arator by any other method means you pay 25% to 40% more than my price. There is a whole lot to this big separator question and to get the most value for every dollar you spend you should know what 1 know about separators. LETT JVAST TO VEVELO

Test My New Sanitary Model Side by Side With Any Separator Made — Then Decide

Capacity Larger sizes in propor-tion. My 950 lbs. size costs nomore than other high

grade small sizes cóst. I guarantee satisfaction or money back. I take all

the risk.

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n interested. Please send me low prices - full nation about your new Galloway Sanitary Sep-and big money saving book on Separator secrets.

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Milking Test for 90 Days

So-now then, get the whole story as told in my free book. Get Galloway's first-hand infor-mation on separators. Whether you buy from me or not the facts I tell you in this book will save you many a dollar on your separator and will show you how you can make every penny you invest in a separator bring back definite returns. Send the coupon tonight and get this valuable book.

Send

Take These Farmers' Word - They Know Galloway separator has given the best of satisfaction. I get all the cream and uniform test. There hasn't been more than wo points variation in cream test all summer. M. B. HICKOX, Miller, S. Dak.

Have given Galloway separator a good trial and am well pleased with it. It certainly is worth the money. I don't understand why some people pay §9016 §120 for a sep-arator when you sell a separator just as good for about half. F. J. HUREN, Cheyenne Wells, Col.

Don't Hesitate but Act Now -Cut Out and Mail Coupon—Read My Book

Clip out and mail Coupon—Head My Book Clip out this coupon — and send for my great big money-saving book that solves your separator problem. It also describes the great Galloway Spreader, Tractor, Engine and other implements. I even save you money on freight because I ship from St. Paul, Kansas City, Council Bluffs, Chicago as well as Waterloo. Write tonight.

Wm. Galloway, President The Wm. Galloway Co. 43 Galloway Station WATERLOO, IOWA



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TOM MCNEAL'S ANSWERS

A Question of Relationship.

What relation are we? Our fathers are first cousins and mothers are sisters. Are we first and second cousins or first and faird cousins? SUBSCRIBER. You are first cousins on your mothers' side and second cousins on your fathers' side. Your relationship is half of one degree greater than first cousins.

Rights of Surviving Husband.

A wife owns a farm and has children. If she dies leaving a surviving husband what share of her estate will fall to him? What will be necessary under the laws of Okla-homa to make the husband an heir? E. C. T. The surviving husband would inherit one-third of his wife's estate and her children the remaining two-thirds under the Oklahoma law. If the estate is in Kansas the husband inherits one-half and the children the other half. Nothing is necessary under the Oklahoma law to make the surviving husband an heir. He is made an heir by statute. Of course the wife might will him all of her prop-erty if she so desires.

Qualifications for West Point.

1. Is a high school education required to enter West Point or Annapolis? 2. How many years must one attend West Point before receiving a commission in the army? 3. Where are there schools where teleg-raphy can be studied? D. M. Light school adu-

1. Not necessarily a high school edu-cation, but the candidate for admission to either school is required to pass an examination in the following branches: English grammar, English composition, English literature, algebra thru quadratic equasions, plane geometry, descrip-tive geography, and the elements of physical geography, especially of the United States, United States history and the outlines of general history. 2. Four years.

3. Telegraphy is taught in most of the commercial schools of the country.

Partnership.

Partnership. A and B form a partnership, B purchas-ing a half interest in A's business, including his real estate and buildings. The lot on which the building was located was involced at cost and the building at cost of material and labor. Stock, tools, furniture and equip-ment generally were involced at cost. B wishes to withdraw from the partner-ship, but A refuses to let him out on the same terms he went in. How can he bring he has a warrantee deed to an undivided half interest in the real estate and a bill of sale to an undivided half of the stock, tools and equipment? F. J. I am not able to determine from your

I am not able to determine from your statement whether this was a limited or general partnership, but I assume that it was a limited partnership formed for the transaction of a particular kind of business. If so it may be dissolved in this way: A notice of dissolution must filed with the county clerk in the county in which the original certificate from B. of partnership was recorded. Then the notice of dissolution must be published in some paper published in the county for a period of four weeks, or if there is no paper published in the county, then some paper of general circulation in the county. I presume that F. J. understands that the dissolution of a partner-ship either limited or general does not relieve either partner from obligations incurred by the firm during the time of the partnership.

Some Information.

What is the number of I. O. O. F. and F. & A. M. in the world? Where did the Gypsies come from? Who was the first Jew, also the first fille?

How much time should there be be-n Christmas and Easter? What is the origin of the following de: Irish, German, Cossacks, Goths and (s?

*. Who looks after the Red Cross funds to see that they are used properly, and how many men are paid for so doing? Shelton, Neb. J. F. RAMBO.

terning the I. O. O. F. gives the total membership in the world as 2,194,773. I do not have any reliable information oncerning the number of Freemasons in the world. The number of recentsols in the View of the states and Canade, according to the . Intest data I have, is 1,760,277. 2. The Gypsies are supposed to have

come originally from India.

1. . .

into vogue apparently until after the division of the nation when the 10 tribes separated from the other two, of which the tribe of Judah was the principal one. The Jews called all people who were not Jews Gentiles. I cannot say who was the first Gentile.

4. As Easter shifts from year to year I cannot say how much time should elapse between Christmas and Easter. In view of the present price of coal I should be glad to cut it down to two weeks if I could.

5. History is uncertain concerning the origin of the Irish. The original Celtic tribes which overran Ireland probably came across from the Scandinavian coun-tries. The name Germans was applied by the Romans to a large number of tribes of savages that ranged thru Northern Europe. The Goths and Huns both belonged to the German tribes. The Cossacks originated in Tartary, the Turks in Khoristan.

6. Catholic 13,881,413, Methodist 7,-328,829, Christian 2,283,003, Baptist 6,-179,622 and Universalists 52,000.

 I do not know.
 I am not able to say how many persons are receiving money for working for the Red Cross, nor can I say just how the funds are distributed. I think, however, that a larger proportion of the funds contributed to the Red Oross actually, go to the charitable purpose in-tended than in any other organization in the world. I happen to know that the local workers for the Red Cross here in Topeka-have donated their time in addition to give non-liberable. addition to giving very liberally.

Call in the Fence Viewers.

A and B own adjoining farms but there is no division fence. The division line is in dispute. How should A proceed to get the line and a division fence established? G. T. D.

The first thing is to establish the di-vision line. This may be done by an agreement of the adjacent land owners agreement of the adjacent land owners to call in the county surveyor and have him establish the corners and line, or if B will not agree to this then A may notify the county surveyor that he de-sires such a survey made. The county surveyor shall then give B a written notice stating the time at which the survey will be made and the lines or corners established. This notice must be delivered to B in person or left at corners established. This notice must be delivered to B in person or left at his residence at least six days before the survey is made. If either A or B is not satisfied with the survey he may take an appeal to the district court, which will hear the matter and either affirm or set aside or modify the survey. After the line is established unless B will consent to build his share of the will consent to build his share of the partition fence A should call in the township fence viewers who, after giving B notice of the day of hearing, shall visit the premises and determine the amount of fence to be built by each person, A and B. If B refuses to build his share of the division fence then A may build it and collect the cost of it

Renter's Rights.

I have lived on a rented farm for the last five years. Last fail I asked the owner if I could have the place another year as I wished to sow some wheat. He said I could, so I put in about 20 acres. Now he is about to sell the farm. Can I hold possession for another year or could he force me to move, there being ne written contract? How many days' notice does the law require a landlord to give in order to get possession? SUBSCRIBER.

You are a tenant from year to year. Whether you can hold possession of the place for another year depends on the time when your rental started. If you are now on a new year's possession with the assent of your landlord you can hold. Assuming for example that you took possession December 1, five years ago, then you are holding over with the consent of the owner and can hold posses-sion until the first of next December. and the second states of the second states required.

Entertainment for Soldiers.

Is there a chance for a musician to enlist as an entertainer at the camps? Moran, Kan. GLEN THOMPSON.

I have never heard of a special service 3. As Abraham founded the house of of this kind, but you should take the Israel I think he was entitled to be matter up with the War Department called the first Jew, altho the term Jews thru your member of Congress, Ed. as applied to the Israelites did not come Little.



to \$200

The Household, Dept.MM-16, Topeka, Kan.



H.W.BUCKBEE

ford Seed Farms 101 Bookford, Ill.

FARM ANSWERS

Silos in the United States.

How many silos are there in the United States? In Kansas?. Montgomery Co. - K. D. B. There are about 400,000 silos in the United States, with a total capacity of 31 million tons. The average capacity is, 78 tons. Kansas has about 12,000

To Organize a Drainage District.

We have had floods in our community for several years, and are, thinking of organizing a district to straighten the creek across sev-eral farms. How should we go about it to get started? Greenwood Co. H. P.

Full information is contained in Farmers Bulletin No. 815, Organization, Financing and Administration of Drain-Lge Districts, which you can obtain free from the United States Depart-ment of Agriculture, Washington, D. C. Also write to H. B. Walker, Manhattan, Kan., state drainage engineer, who will help you organize.

Financing and Administration of Drain.
 Financing and Administration of Provide a grant of Provide a grant of Provide and Pro

The Size of Calves,

What is the average period of gestation th Shorthorn cows? What is the average eight of the calves? L. K. C. eight of th Norton Co.

weight of the calves? L. R. C. Norton Co. From careful records taken of 19 Shorthorn cows it was found by an English agricultural society that the average gestation periods of cows bear-ing bull calves was 288.91 days; of cows bearing heifer calves 283.75 days. The longest period in the former was 297 days, and the shortest period 280 days; in the latter 293 and 274. The average weight of the bull calves was 89.45 pounds; that of the heifer 82.5 pounds. It was found that the longer the period the heavier the calf in each case. It was noted that the heavier calves are produced from cows in their prime; that is, ranging from 5 to 7 years of age; after this age the calves appeared to become smaller at birth. It is thought safe to take an average of 285 days as the period of gestation and 84 pounds as the average weight of a Shorthorn calf at birth.

Horses for Express Companies.

What types of horses do the express com-panies prefer? H. A. E. Ness Co.

What types of horses do the express commanies for the second of the secon

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When Docking the Lambs.

I wish you would tell me about the be methods of docking and castrating lambs. Neosho Co. H. A. the best



January 20, 1915.
THE FARMERS M.
January 20, 1915.
The symptom that the name this symptom that the name this symptom that the name that head originated; this 's an unfortunate term, as the head often does not turn dark, and even the lit does it incredy indicates that the bird is sick trees that that may or may not be blackhead. On opening a turkey to be diackhead. On opening a turkey that has died of blackhead, one or both of the ceea or "bild guts" are found to be broad spreading top, to make a rapid to be simple to the clease of all other is more or less that the liver is more or less that the disease, and if very sick it is best to kill it and burn the body. Clean out the roosting place and spread lime in the desy the tirkeys, water, potasstim permanganate is most frequented by the tirkeys are been drawating place and spread ing the chemical as can be placed on a wine color, which, for every gallon of the chemical as can be placed on a soverfeeding predisposes to the disease. All other should be reduced a soutfleient quantity of the save or davantage in keeping turkeys is soverfeeding of sour milk has a overfeeding of sour milk has be to diaked. The rearrange and clause to to overfeeding of sour milk has be to diaked. The rearrange and clause the should be bread at 2 years of age under should be reduced are most important.
Transmanner term as the place and soverfeeding of sour milk has be to diaked. The rearrange and clause the turkey sourt and the reduce are most important.
Transmanner, will take about as much to the displace doe to are act at the substant the turkey sourt at the top to a transmanner to the chemical as can be placed on a tore a year global derive to a transmanner to the turkeys. The flace the transmanner to the turkey sourt a

Teaching Lambs to Eat.

Teaching Lambs to Eat. Teaching Lambs to Eat. I have had trouble in teaching lambs to cat. How should this be done? Greenwood Co. D. V. Every effort should be made on Kan-sas farms 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 ac-cess at all times, but into which the ewes cannot come. The creep should contain a rack for hay and a trough for grain, arranged so the lambs can-not 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 alfalfa of the second or third cutting is one of the most relished feeds. Flaxy, sweet wheat bran, probably ranks next. For the first few days these are the ideal feeds. A little brown sugar on the mixed with the bran. Until the lambs are 5 to 6 weeks old all their feed should be coarse ground or crushed. The Ohio Experiment station has found that for yourg lambs that are to be marketed a grain ration of corn is of parts, oats 2 parts, bran 2 parts, and parts, bran fat. Suduable in promoting growth rather bess palatable than oats or barley.

than fat. Such feeds as middlings contain too much flour for extensive use. Rye is less palatable than oats or barley. Soybeans may replace linseed meal if they cost less. Cleanliness is an im-portant factor in keeping the lambs growing. Always feed in an empty trough, and if it becomes soiled scrub it out with limewater.

Uses of Black Walnut,

What has produced this great demand for Black walnut logs? Buyers are taking all the walnut logs here they can get. What profits can be expected from growing this prop? L. R. Neosho Co.

The Black walnut is a native tree thruout Eastern Kansas, and is the highest-priced wood on the market of any of our commercial American trees. The wood is used in the United States as shown below.

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In recent years the best grades of Black walnut logs have been exported argely to European countries. How-ver, in the last year or two the de-mand for walnut for American uses has increased greatly. Black walnut urniture and finishing is now becom-by popular in the United States. The Present prices of walnut logs vary, recording to the size and quality, from 25 to \$100 a thousand board feet on he stump.

The Black walnut grows naturally introduction of the stump. The Black walnut grows naturally introduct the hardwood region of the hardwood species. It is never found knowing in a pure stand, nor has it hardwood species. It is never found inde an altogether successful growth black walnut is a tree which requires full sunlight, and should be planted only in mixture with trees of smaller size. The foliage of the walnut is hather sparse. This allows sufficient is to reach the ground to support very satisfactory growth of the more black walnut requires a deep, rich soil which as the Red cedar, the Green or White ash, and the mulberry. The line walnut requires a deep, rich soil which to make its best growth. Fre-quent flooding is not seriously objec-tionable, but the trees will not stand swampy conditions. Being highly in-heir growth in the open. Under these conditions they make a rapid height srowth, clearing themselves of limbs

1

How should they be managed at breeding lime? D.L.W. Stafford Co. Only well developed draft mares hould be bred at 2 years of age under Kansas conditions. All others should years if they are not strong or are slow in maturing. If bred at 2 years of age they should not be bred during the third year, thus giving a chance for further development. Mares con-ceive most readily about nine days after foaling, and after this they gen-rally come in heat about every 18 to 21 days until they become pregnant, but this varies a great deal even with the same mare. Some mares fail to show signs of being in heat even when tried regularly with a stallion in a few days by giving them either a porced service or by opening them up with the hand which has first been cleansed thoroly. To take the mare to the stallion the stallion's stand for teasing and the stallon's stand for teasing and the stallon's stand for teasing and the stallon's stand for teasing the in the stallon's stall the stallon the terest alt

About the Wyandotte Chickens.

Can you tell me about the Wyandotte breed of chickens? Cherokee Co.

About the Wyandotte Chickens. Can you tell me about the Wyandotte breed of chickens? S. B. Cherokee Co. The Wyandotte breed is very popu-lar in Kansas. It is a rose-comb breed and is characterized as a breed of curves. The body is comparatively round and is set somewhat lower on its legs than the Plymouth, Rock. It is inclined to be a looser feathered breed, and in general appearance it is rather short backed. The breed has been developed in the United States, and has become very popular. The Sliver Wyandotte was the original va-riety, and it is believed generally that the Dark Brahma, the Sliver-Spangled Hamburg, and the Buff Cochin played a part in its origin. It is somewhat smaller than the Plymouth Rock. The estandard weight being, for the cock, 8½ pounds; pullet, 5½ pounds. The hens are fairly prolific layers of brown eggs, are reputed to be good winter layers, and the breed as a whole makes a fine table fowl. The young chickens do not tend to have the same leggy stage which is characteristic of the Rocks and most of the other general-purpose breeds, and the breed is there-fore well suited for the production of broilers. Like the Plymouth Rocks, all the varieties of this breed are yel-low legged and yellow skinned, which adds to their market popularity. The Sliver Wyandotte the malfs has a sliver-white back and saddle, the hackle and saddle feathers being striped with black. The feathers of the body and breast are white, each at feathers are black. The fluff is a slate color of the female shows white feathers laced with black over the en-tive body except the hackle, which is black laced with black over the en-tive body except the hackle, which is black laced with whice, and the main at feathers, which are black, and some black in the wings, while the fluff is slate mixed with gray. The color combination and the character of on combination and the character of the body except the hackle, which is black laced with whice, except that the white of the Silver Wyandotte the color is white thrupout, and sh

Shrunken wheat which has neither been frosted nor water soaked is an ex-cellent food for poultry and costs com-paratively little, when obtainable.

Rich butterfat cows can be made more numerous only by careful selection and

breeding.

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Grange Notes BY EVE GASCHE

The call by the National Grange for better service in the subordinate Granges is being well responded to. Within the last fortnight reports have shown vari-ous methods of increasing the membership and enlarging the scope of Grange ably and the report was adopted.

is young, and train it in Grange work. An Ohio woman thought Juvenile An Ohio woman thought Juvenile Granges just the thing to interest young farm people in the Grange work, and they are doing a valuable work in train-ing rural children for the higher Grange. A Michigan woman wished to gather in the children under 14 years, who are too young for the Juvenile Grange, so she arrange Grange Clower Clubs Farm arranged Grange Clover Clubs, Farm children take to these "like ducks to water," one sister writes. Already in that state the Clover Club children are asking admission to the Juvenile Grange. One Grange reported recently that good music gained 20 young persons for them, and that this 20 brought 30 more within a year. Now, one-half of the program is given to them and they are challenged to prepare better programs than their elders.

Several Granges report that systematic efforts are being made to increase the membership and the usefulness of the Granges to their respective communities. A popular number was a demonstration meeting, the lecturer having secured four ladies to prepare bread made from home-ground wheat, potato war bread, cornbread, war pumpkin pie with no lard in the crust, and potato doughnuts made without lard. The brothers were well pleased with the samples given them. Surely the women of this Grange are hard at work on the food conservation problem.

Quite a unique feature is being tried by another Grange. The territory is

Why Not be Square?

Mr. Armour, whose monkeyings with stockyards and terminals and so on have attracted attention, does not approve of Francis

tion, does not approve of Francis Heney, and plainly says so. "If there is no other way of curbing Mr. Heney," says the great Chicago pig-sticker, "then the packers must resort to the only avenue that is left, and that is appeal to public opinion."

Well, before that desperate resort they might try being straight, open and above-board, for a change, in their dealings with the public.

divided into four districts. The members in every district are to secure new members, prepare a program, serve war-time refreshments, and at the end of a specified time are to draw lots to decide which two districts must provide the most novel entertainment and strange refreshments. There is no lack of interest and attendance in that Grange.

Another Grange says that at every meeting the members discuss for 1/2 hour the important questions of the day. At the important questions of the day. At dictary that combread scarcely is known, tree should be removed. When thinks and the sides shaped up and the work the end of that time the chairman's Our allies depend almost exclusively on gavel sounds and the next half hour is gavel sounds and the next half hour is given to music, tableaux and mirth. Again the gavel cuts into the merriment cannot be transported from place to place and gives way to the "freak" supper to follow. The serving is arranged so that follow. The serving is arranged so that to introduce new methods of baking in every person must reach into a dark room and take the plate that is handed to him, and every plate carries a sur-the Granges are adopting to increase interest. The Grange that takes the population of the trans." If you do, you have interest. The Grange that takes the population of the fact that one-third of the time to plan occasionally does not com-population of the trans are a wary big factor in the limbs, one limb should be removed. number of The Symmetry of the tree should be a chance for the sun's rays to reach every part of the tree; some of the smaller limbs should be re-moved from the top. All decayed and name, but husked 1,00 follow. The serving is arranged so that

wheatless and a meatless day for every clared that it would be a national dis-week when in no case is food made from grace if we do not supply these dress-wheat or meat to be used, Therefore, ings in sufficient numbers. Where there is a great growth of extra is dangerous. I have seen trees die after wheat or meat to be used, Therefore, Be It Resolved by the National Grange in its fifty-first annual session assembled, that the President be appealed to to establish seven liquorless days in every week upon which no alcoholic beverages may be used. This is to be in effect during the war or until national prohi-bition becomes the law of the land." The committee on temperance reported favor-

One Grange asks how to interest ham of Lane, the master; N. T. Dick-young people and keep them as working son of Carbondale, a member of the members. Experience has taught old executive committee; and D. M. Lauver Grangers to weatch the animal when it of Paola, of the co-operative committee executive committee; and D. M. Lauver of Paola, of the co-operative committee called on Walter P. Innes of Wichita, state food director, at the recent war council at Topeka and pledged the sup-port of the Grange to the work of the Food Administration. They assured Mr. Innes that the Grange is loyally behind the Food Administration on the things required to win the war. required to win the war.

Women of Kansas to the Colors

BY BERTHA G. SCHMIDT

Woman's power in the present world crisis was defined in no meager terms at the first meeting of the Kansas Women's Division of the Council of Defense held Division of the Council of Defense held in Topeka Thursday, January 17. Prac-tically every phase of women's work in the United States in helping to win the war was touched upon in addresses given by half a dozen representative Kansas women.

simple life, be contented with simple Following the meeting, dinner was foods, simple pleasures, simple clothes. served in the dining room of the First Work hard, pray hard, play hard. Work, Methodist church. Short talks were made eat, recreate, sleep. Bo it all courage at the dinner table and the women ously."

In an address that was replete with emphasis of woman's ability to aid by conserving food, Mrs. Mary Pierce Van Zile, of Kansas State Agricultural college, made an appeal which every woman in Kansas whether living on the farm or in the city should take home to herself.

"We have come to believe that food days."

Mrs. Van Zile explained why corn pro-ducts must be used in the United States ducts must be used in the United States there must have been a long period of instead of being shipped for European past neglect. consumption. She said that some persons take this attitude: "Even if those people pacity, and this cannot be secured by lark the neglect. don't like combread, neither do we. Why should we send our wheat to them ?" The reason is this, white bread has become are so thick as to prevent sufficient sun-such a dominant factor in the European light penetrating thru the foliage of the dietary that cornbread scarcely is known, tree should be removed. When limbs

in this time of world war, the President need for surgical dressings is constantly possible, or at least advisable, to do a The horse that is trained wire of the United States has declared a increasing, Mrs. Thomas said, and de-thoro job of pruning in one season. blinds is generally the safer horse.

and welfare of the newcomers into our homes, Dr. Lydia E. DeVilbiss of the State Board of Health emphasized in a brief but forceful talk. That child hy-giene is one of the most important factors in all war work is indicated by the deplorable condition which exists in some countries in the war zone where not a child less than 2 years old is left. While Kansas ranks first in child hygiene it lags behind in child welfare. Dr. DeVilbiss expressed the determination that we will keep up the standard in hygiene and

than a million and a half women are now engaged in war work and that one of the most important problems today is the substitution of women for men.

What women have done thru the Y. W. C. A. at the concentration camps was concisely told by Miss Winifred Wygall. She explained the purpose of the hostess house, where women who are relatives and friends of the soldiers are received

at the dinner table and the women pledged co-operation in the work of the council.

Winter Care of the Orchard

There are many pleasant days in the winter when pruning can be done. This work does not need to be hurried then, and plenty of time can be given to every "We have come to believe that food and plenty of time can be given to every has a very dominant place in this war," tree, which is highly important. Any-Mrs. Van Zile said. "One of the things body can go into an orchard with an we have to think about, whether we will ax and saw and do a job of "trimming," or no, is food conservation. There is a by cutting out a lot of big limbs. This larger shortage in the fundamental food products, wheat, meat, fats and sugar, butchery, and there has been altogether than anticipated; the shipping conditions too much of this done in our orchards. have grown more grave; the harvests in Europe are not what were indicated; prune fruit trees properly; in fact, any there is a larger shortage than estimated man of ordinary intelligence ought to there is a larger shortage than estimated man of ordinary intelligence ought to in August. We have already exported to learn in a few hours. There should be the allies all the wheat which is available a plan for every tree; prune with a until the next harvest. Then we are plan, not at haphazard, and use judgsimply going to export what we can save. ment constantly. To start with, every The same situation exists in regard to dead and diseased limb should be re-meat. You understand that only con- moved close to the trunk or large limb centrated foods can be shipped these it grows from. It is seldom advisable to remove limbs more than 3 inches in diameter, and when this seems advisable there must have been a long period of

cutting out large branches. All water sprouts, deformed limbs, and those that

- 14

In the midst of our efforts to conserve being entirely pruned in one season. In supplies we must not overlook the health wood every season for two or to be the season for two or wood every season for two or more years. Once the orchard is in shape it takes only a little work every year to keep it so, and it is worth while.

The fact is, orchards have not been replenished to near the extent that they have gone out of business in various ways in the past decade. Where the orchard is just a sideline of the farm, help has become so scarce that the farmer has not fell he had time to take proper care of it, and he has had some reason for this view, as the fruit proposition has been uncertain in the past. better the welfare condition. Miss Linna E. Bresette, secretary of the State Welfare Commission, spoke on the subject, "Women's War Service in Industrial Centers," noting that more than a million and a half women are now chard does not infringe on whether the

chard does not infringe on valuable time. When an orchard in the spring time looks spick and span, there will be some encouragement to take the time to spray, and take such other care as the trees need. I have known one season's crop from an orchard to pay for the land five times over. If your orchard is so large that the job is greater than your faith in the profit, just use a few trees to ex-periment with. Prune, trim and manure these and compare results. I predict that the experiment will prove that it will pay.—Ohio Farmer.

Dynamite for Cistern Digging

BY J. R. LUCAS

A cistern was to be jug shape; 6 feet across at the top and 18 feet deep, at 90 cents a foot for digging it. The first two days the work pro-gressed nicely, as the soil was worked easily, so that at the close of the second day 10 feet of earth had been dug out. However, the prospect for the next day's work was not very gratifying, as late work was not very gratifying, as late in the afternoon the ground was becom-ing hard and large, and flinty-rock were showing quite numerous. I had used dynamite for several years with excel-lent success so thinking to be preserved lent success, so, thinking to be prepared for any emergency as I expected to strike heavy rock soon, I secured a sup-

strike neavy rock soon, I secured a sup-ply of dynamite, electric blasting caps and the use of a good steel drill bar. The next morning the soil worked fairly well for a time, but soon the rocks were reached which were too large to be picked lodse or hoisted out, a chere is where dynamits are in more so here is where dynamite again proved its value. In order to continue the work, five holes were drilled, one in the cen-ter of the cistern and the other four were 2 feet from the center hole in all four directions. The outside holes were 4 feet from the walls in order that the explosion would not shatter them. The cistern was 12 feet across at this depth. The holes were sunk to a depth of 3 feet and each was loaded with one cartridge and each was loaded with one cartrage of 40 per cent ammonia dynamite. The charges were all primed with a No. 6 electric blasting cap and well tamped. They were then connected together, at-tached to the blasting machine and fined fired.

As soon as the smoke had cleared out, it was found that the shots had broken up and loosened the rocks and dirt for a depth of $3\frac{1}{2}$ to 4 feet. As the rocks were well shattered the debris was easily shoveled out. The rocks below this were found to be almost solid in the bottom, so holes were again drilled, load-ed, and fired in the same manner. As this latter blast loosened the material about as deep as the contract called for, the debris was shoveled out, the bottom and the sides shaped up and the work

Here's the Champion Husker

Ernest Funston not only has a good name, but he also is a real worker. He husked 1,055 bushels of corn in $9\frac{1}{2}$ days on the H. Ross farm, 12 miles north, and on the John Baer farm 393 bushels in 34 days. In 16 days he husked 1,600 bushels and was paid 8 cents a bushel, the ruling price. On one day he gath-ered 126 bushels. The corn is yielding 35 to 40 bushels.—Abilene Reflector.

The horse that is trained without

January 26, 1918.

THE FARMERS MAIL AND BREEZE

Sunday School Lesson Helps

BY SIDNEY W. HOLT

Lesson for February 3. Jesus Lord of the Sabbath. Mark 2:13-3:6. Golden Text. The Son of man is Lord even of the Sabbath. Mark 2:28. Thruout the entire gospels the story of Jesus reveals to us His constant ob-servance of the Sabbath, and yet to those who were against Him, His works on that day were the greatest crime on that day were the greatest crime they could accuse Him of.

they could accuse Him of. Early one summer morning as Jesus and His disciples were going thru a field of grain on their way to some synagogue service, the men plucked some of the grain and rubbing out the kernels ate hungrily. In doing this the Jewish aü-thorities said that they had broken the Sabbath laws, both by laboring in taking out the grain and in eating before the morning prayers. Now the disciples did not break the fourth commandment, only the Pharisaic interpretations of it. only the Pharisaic interpretations of it, for they with their ingenious constructions and stretch of words had turned the Sabbath into a day of bondage and superstitions.

Jesus, aware that the Jewish authorities were displeased, went on into the synagogue. On entering He found a man with a withered hand. Knowing that the Pharisees were watching and indig-nant and grieved for the hardness of their hearts He healed the man. Turn-ing to His accusers He asked them if it was lawful to do great as the Schleith was lawful to do good on the Sabbath days, and when they failed to answer the question He answered it Himself, saying that it is lawful to heal on the Sabbath.

From His illustrations we can gain new methods for new times, and it is for us to discover just what changes in forms and methods are required under modern conditions as no one has a right to impose his own views on others without considering whether he is destroy-ing or obeying God's divine principles. The personality of our Savior in com-parison with the portraits of the Phari-sees, the Herodians and the Sadducees, stands out in a most remarkable light. Their disputes with Him brought forth burning truths which are as valid today as when they were first uttered.

The Sabbath was made for man. The fourth commandment is built on that principle and is best for his whole nature of spiritual and moral growth. Jesus did not mean to abolish that ancient commandment, as some good men say, only the misinterpretations and the misuse of the Sabbath law. To do good or to help others is God's law at all times, and the Sabbath day is not any differ-ent from the other days of the week. While the Sabbath is called a day of rest that does not necessarily mean one rest that does not necessarily mean one of idleness.

The great Emerson once said: "There is no art like the art of putting first

A Woman's Grievance

The average western housekeeper is Hooverizing patriotic-ally, but she is doing it with a ally, but she is doing it with a sort of grudge and you can't reason her out of it. All she says is, "Why should I try so hard to save wheat when millions of bushels of grain are used in mak-ing beer?" She can't forget it. Women are pat good compromisers Birght is

not good compromisers. Right is right and wrong is wrong with them.

And who should blame her in this instance? Sixty million bushels of barley, 15 million bush-els of corn and 3 million bushels of rice were used for making beer of rice were used for making beer in this country in 1916, enough to provide a pound of bread a day for a year for 6 million people. Little less is being used now, altho all Europe is going on ra-tions, millions of people must live on a starvation diet and the United States expects to have no

wheat flour left by next May. The troops must be fed. But the kaiser's best friend and helper in this country, the brewery, may continue to turn food unto poison, rob our stomachs and numb our brains.

It doesn't look like good sense, does it?

things first." Soul-life is vastly more important than our physical life, and a Sabbath spent in the study of the Bible, the highest literature in existence, becomes a liberal education and gives us more real rest than any sort of idleness or selfish pleasures. The average man more real rest than any sort of idieness or selfish pleasures. The average man spends 10 years of eight months each in school, while a man of 70 has since his tenth year had 3,155 Sabbath days, almost twice as many days as he had schooling. These Sabbaths spent in study and discussion of the greatest themes in the world will educate a man

themes in the world will educate a man more than his whole college course, tho a college course will enhance greatly the study of the Bible. While it is good once in a while to sit alone with one's conscience, nevertheless for everyone trying to live under chris-tian standards it is best to join some church, even tho one cannot accept or agree with all its plans and teachings, for in this way one is allied with Christ's army that always is warring against evil.

against evil. Every person's power is increased by becoming a part of an organization, and the church is living in the midst of many evils and needs her full quota of strength

are religious nation, but if it is to be a religious nation, there must be a religious people, and this there cannot be without personal religion. What you wish your children to be, that you must be yourself."

Remember the Sabbath day and keep it Holy, loyally and willingly, and never forget that it is a day for doing good, no matter what that good may be.

Concrete Work in Winter

Concrete work may be done in winter if precautions are taken to prevent it from freezing before it has had an op-portunity to set, says R. A. Seaton, professor of applied mechanics and machine design in the agricultural college. If the materials and the air are warm, 24 hours usually will be sufficient for the setting to take place, but when the temperature is near freezing and the materials are cold, it takes place slowly and consequently the concrete should be protected from freezing for several davs

After the concrete has once set, it may be subjected to very low tempera-tures without injury. The gain in strength will be much slower than at a higher temperature, but it eventually will become fully as great as under normal conditions. On account of the slower rate of hardening, care should be taken to leave the forms in place and to protect the concrete from heavy loads until it has had an opportunity to gain its full strength. This may be several times as long as in warm weather.

The best method of preventing the concrete from freezing will depend on the kind of work being done. Fre-quently the work can be inclosed with canvas, or can be done indoors and a stove used to keep the temperature above freezing. If the weather is not too cold, heating the water alone, or the water, sand, and stone, may enable the concrete to set before it freezes.

The freezing point of the concrete can be lowered artificially by the ad-dition of common salt. This is added most conveniently to the water. An amount of salt up to 10 per cent of the weight of the water may be used with-out injury to the concrete, but it is not necessary to use so much except in of salt to every gallon of water, equiva-lent to 2 pounds for every bag of cement, will be sufficient for temperatures several degrees below freezing.

of salt in concrete to cause the forming of a white pow-dery deposit similar to that frequently seen on brickwork after a rain. Where this is objectionable, salt is not recommended.

After the work is finished, if artificial heat is not provided, cement sacks, canvas, straw, manure, earth, or sand should be thrown over the work to as-sist in retaining the heat of the mass. The heat produced by the fermentation of the manure may be of considerable help in keeping up the temperature.

variety of fruit may differ in its keeping quality when grown in different parts of the country. It may vary when grown in the same locality under different cultural conditions.



To Produce Sweet Potatoes the small girdled area may be the extent of the damage. In the presence of high moisture and temperature, the fungus

Plant Diseases Have Caused Much Loss in Kansas

BY L. E. MELCHERS

"HE SWEET POTATO growing in-dustry in Kansas has taken a vig-orous slump in the last few years, infection still remains and spreads down dustry in Kansas has taken a vigmainly on account of the losses resulting from plant diseases. Farmers say "the crop does not pay any longer," and in many instances such is the case, but the actual facts are that from 1 to 50 per cent of the crop is lost on account of plant diseases. The diseases which are responsible for all this loss are the stem-rot—wilt, bluestem, yellow blight —the black-rot, the ring-rot—collar rot and the coff and disease. The first -and the soft-rot diseases. The first two diseases live over in the soil and in the seed, while the ring-rot and soft-rot are storage troubles.

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Repeated use of the same soil in the hotbed year after year is perhaps the chief source for spreading these dis-eases in the field. Soil once infested with these maladies continues to spread



Sweet Potatoes from Sandy Soil.

these diseases every season, even tho perfectly healthy seed is planted. Soil for the hotbed or better still, the sand, should be new every year. Soil from some field which has not been in Sweet potatoes serves the purpose best. The manure which is used should not contain sweet potato refuse which has been fed to stock. If it is certain that the soil in the hotbed and the manure are free from disease, the next requisite is to have the seed free from the dis-

Obtaining the Seed.

eases.

There is only one rational way to se-lect sweet potato seed and that is at digging time. Healthy seed can be sedigging time. Healthy seed can be se-lected at that time and stored under proper conditions, thereby insuring the best possible seed for next season's planting. Hill selection is the proper method in order to avoid getting dis-eased seed. Select a large number of healthy appearing hills or vines and split open the crown of the runners and examine for the stem-rot. If the crown is internally free of disease select the seed from such hills, for this will insure clean seed for next year. Plants from such seed are bound to produce healthy plants if the seed has been grown under the advised conditions and if the young plants are transplanted to fields which have not been in sweet potatoes for sev-eral years. See that there are no evi-dences of black-rot on the outside of the If in doubt whether a certain hill seed. of potatoes, is infected with the stemrot make a cross section cut with a knife at the stem-end of a few of the potatoes and if the cut surface is free of all dark specks or dots, the seed is safe to use

The stem-rot occurs in about 75 per cent of the fields in this state and it is not surprising that sweet potato grow-ing is being discontinued. This disease was unheard of until seed was shipped into this state from the East. As soon as the growers began buying seed in the East and had it shipped into Kansas, the trouble began. Now stem-rot is well established and will remain so, as long as this crop is grown under the present conditions. It should be remembered that this disease is able to live over in the soil for several years, therefore crop rotation is very important. At least a three or four-year rotation is necessary to eliminate this disease. Infection takes place thru the roots either in the field after, the plants are set, or in the hotbed from infested soil, or from diseased seed. Such plants soon die when set out into the field and this is mainly respon-

toward the roots and up into the stems. Potatoes which are produced on such plants show infection at the point of attachment. This is best seen by split-ting open the crown of the plant. If the inside of the stem is discolored brown or black, the stem-rot is present. This infection can be traced down into the sweet potatoes, where it is shown in dark streaks, beginning at the stem and extending down into the flesh of the potato. Never select any seed from such potato. Never select any seed from such a hill. Examine hills which show thrifty, green vines. Split open the crown and look for signs of discoloration. If the inside of the vine is white, then examine one or two potatoes, splitting them open. If they appear normal, one can select his seed with certainty from such a hill.

A Fungus.

Black-rot is a fungus which is more or less prevalent in Kansas. On the sur-face of the potato it is characterized by the dark or nearly black, somewhat sunken, more or less circular spots or areas. The spots themselves have a somewhat metallic luster, while the tissue just beneath is somewhat greenish. Infection generally begins as a small black spot. This may enlarge to such black spot. This may enlarge to such an extent that it rots off the entire stem. If seed is used which has this black-rot, it will produce plants which will have black-rot. When sweet po-tatoes which are affected with black-rot are cooked they give a very disagreeable taste, therefore farmers should not lessen their trade by placing such potatoes on the market. The same methods for control are advocated for this disease as have been mentioned for stem-rot, namely, special attention to hotbed preparation, seed selection and crop ro-tation. The treatment of the soil with

lime, sulfur or other chemicals is of no value in controlling these diseases. The soft-rot and ring-rot diseases are severe troubles which occur in the stor-age house. In the case of the soft-rot, the decay starts at one end of the sweet potato and continues to spread rapidly, requiring only a few days after the potatoes are placed in storage, and continues to spread so long as potatoes re-main in storage. The earliest symptoms are the soft and watery condition of the If the skin is broken in any tubers. way at this time, the moldy growth of the organism shows itself. One softrotted potato may be the center of infection for all the surrounding potatoes. If the skin of such soft-rotted potatoes is not broken, the potatoes become firm, dry and eventually brittle. This condition is known to most sweet potato no out-go for the farmer. growers, and is called the "dry rot," but in reality, it is not a different disease from the soft-rot, merely a later stage. A Greater Use of

Storage Conditions.

Ring-rot is caused by the same organism that produces the soft-rot. It dif-fers, however, in that the disease begins its attack between the two ends of the sweet potato, in place of attacking it at one end. The disease causes definite rings or girdles around the potato, while it extends toward the ends at the same time. The extent to which this disease may develop in individual potatoes de-pends upon storage conditions. If the humidity and the temperature are kept

destroys the potatoes. Unfortunately the fungus causing this disease cannot be kept out of the stor-

It is best to take the precaution of soaking all the sweet potato seed in a solution of 1 ounce of bichloride of mercury to 8 gallons of water before it is planted. The seed should be kept in be kept away from animals. It should not be placed in a metal container since it corrodes metal.

Lo, the Poor Farmer

I called upon the income tax man while in Topeka the other day and this is what I learned:

If A, a single man, or B, a married man, draws a salary of \$1000 or \$2000 respectively each will have to pay an income tax. However, C, who is their congressman and pulls down \$7000 a year, is exempt from such tax. If A, a merchant loses \$1000 worth of

Quite a promotion to the pork industry. If A, a merchant, suffers a loss thru

If a farmer loses 1000 bushels of wheat by fire he can deduct the loss from his year's income. But if he loss his whole herd of cattle or hogs from sickness he can make no deduction. If a farmer is unable to get the help to harvest his wheat this year, because his son has gone into the service of his country, and is, thereby, compelled to labor 16 hours a day to save the crop, he can make no deduction for expense of harvesting; but if he can employ the help and sit in the shade he may deduct such expense from his income. Another promotion for thrift.

If a farmer loses his barn and stock by fire or storm and the same is not covered by insurance, he may deduct the loss from his income; however, if he loses his house under the same conditions he can make no deduction. Presuming, I suppose, that he should con-sider himself lucky he got out with a whole hide. This is "sure" some in-come tax with

A Subscriber.

A Greater Use of Wood

A great deal of wood is being cut for fuel this winter in Kansas. This is doing much to aid in solving the fuel toward the use of labor saving machinery in Kansas.

A warm dinner for the kids at school!

relatively low, the disease may cease and See that they get it.

Sawing Wood on a Kansas Farm; Power is Being Used Generally in Working up the Fuel Supply This Year on Kapsas Farms,

January 26, 1918.

Farm Uses of Lime

It has been said that practically every American farm, 50 years under cultiva-tion, should be given the degree of L. L. D. That means lime, legumes and disease cannot be kept out of the stor- L. L. D. Inat means lime, legumes and age house, since the spores or germs drainage. This statement is true of causing this disease are abundant in the thousands of farms which now fail to air. The only controlling measures that do their full duty. The draining spade can be advised are greater care in will open up the soil, permitting air to handling the crop when it is dug and enter and water to pass away, thus im-placed in storage and the attention it proving the mechanical condition. The should receive thereafter. legumes provide cheap nitrogen, fill the It is best to take the presention of ground with organic matter and keen it ground with organic matter, and keep it supplied with bacterial life, while the lime helps the soil in various ways. Lime is a necessary plant food. Many

planted. The seed should be kept in soils contain lime in the drainage is heavy. Sir J. Bichloride of mercury when taken in- B. Lawes estimated that the yearly loss ternally is a deadly poison and should of lime in the drainage water from an be kept away from animals. It should unmanured field was at least 1,000 pounds for every acre, and on a manured field the loss is heavier still. A ton of clover hay removes from the soil 40 pounds of lime, and all crops carry away more or less of it. Lime also plays an important part in the work done by the clovers and other legumes in bringing nitrogen to the soil. Most of these plants will not thrive properly unless there is an abundant supply of lime. When lime is lacking, the soil becomes

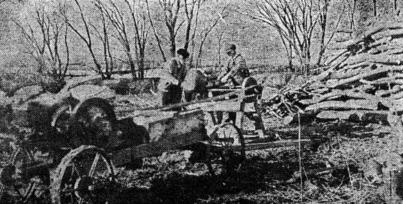
sour or dead, and loses much of its bacterial life, so that the most important crops cannot thrive properly. The lime also exerts both a chemical and mechanpotatoes by freezing he may deduct the ical effect upon the soil. Open, sandy same from his income. But if B, a soils frequently fail thru their inability farmer, loses \$1000 worth of hogs by to hold water. An application of lime cholera he can make no deduction. usually will bind these soils together, make them more compact and far better able to hold moisture. On the other If A, a merchant, suffers a loss thru ter able to hold moisture. On the other a branch of his business, perhaps by hand, the heavy clays either form like poor management, he may deduct the putty in a wet season, or bake into a same from his income. But, if B, a hard brick in time of drouth. In either stockman and farmer, loses a like case it is impossible to crop them prop-amount by cattle dying from blackleg erly. Drainage is always needed on the or foot and mouth disease he can make heavy clays, but drainage alone will not no deduction; another promotion to the stock industry. If a farmer loses 1000 bushels of to break them up and enlarge their soil to break them up and enlarge their soil particles, so the air may enter more freely, and the water pass off with greater rapidity. The lime also exerts a chemical change on many soils by breaking up certain combinations of potash, to make small quantities of that element available. These things combined make the use of lime a necessity on a large proportion of our cultivated land.

Line can be used improperly, to injure the soil rather than to benefit it. It formerly was an old saying that lime enriches the father but impoverishes the son. This was due to the fact that in former times farmers believed that nothing but lime was needed as a fertilizer to keep up the character of the soil. We must remember that lime is only one of a most important quartette of plant foods, the others being nitrogen, phos-phoric acid and potash. Lime will not phoric acid and potash. Lime will not take the place of these other three ele-ments. Its use will add to the nitrogen by improving the crop of clover or other legumes, and it will set free a small amount of potash, and it will fit the soil so that the crop can make better use of these other elements.

By lime we mean what the chemist calls calcium oxide, which is a combina-tion of calcium and oxygen. Most of our doing much to aid in solving the rull lime is obtained from finestone, by set shortage. It also is providing a profit-able market for the products of a great many woodlots. An encouraging thing about this work is the high proportion of it which is being done with power saws. This indicates the general drift consider that form. There are two ways toward the use of labor saving machinlime is obtained from limestone, oyster of handling the limestone—it is burnt or crushed. The crushing is the simpler and easier process. In this the lime rock is smashed into fair-sized pieces and thrown into a lime crusher where it is ground or smashed into a powder. This ground limestone is known as carbonate of lime, and when you buy that product remember that you have the lime rock simply ground or crushed to a powder. When in this form the lime is in much the same condition as that which is already in the soil, and its availability de-

pends very much upon its fineness. Many farmers apply the lime by hand. Some use the manure spreader for put-Some use the manure spreader for put-ting on the ground limestone, and this gives fair results. When liming has become a regular practice, as it should on most farms, a lime spreader will pay, as a special implement, since this en-ables a farmer to do the work rapidly and efficiently.

Dairymen and cattle feeders have no better lookout from which to view their feeding operations than the silo.



Shall I Plant a Garden? BY J. W. LLOYD

It may seem to be rather an inopportune time to be thinking of planting a garden when the winter wind is howla garden when the winter wind is howl-ing about the house and the ground is frozen. Yet time passes rapidly, and unless some thought is given the garden in winter, the season for planting will find us unprepared. If we expect to have good gardens this year, now is the time to make definite plans to that end. One of the advantages, from a per-sonal standpoint, of having a good home garden is that it can be made to yield a continuous supply of vegetables for the table thruout the season. Further-more, vegetables of the best quality can be supplied to the owner of a garden at be supplied to the owner of a garden at a minimum expense and in a much fresher condition than if purchased in trated foods in the diet of those who remain at home will release for the use of the American army and the Allies large quantities of cereals, meats, and other food supplies that are transported readily because of their more concentrat. ordinarily, barrels will be used to hold the brine and meat, altho jars are some-times used. Sirup or lard barrels which have been cleaned thoroly are satisfac-market will reduce the amount of trans-tory. Oil barrels should be burned out market will reduce the amount of trans-portation necessary to supply food for the folks at home, and thus will assist in relieving the car shortage, and enable the railroads to use their equipment in the way that will best serve the in-

erests of the entire nation. It seems, then, that both from the standpoint of personal advantages and of patriotic duty every one who can should plant a garden this year. It should be remembered, however, that should be remembered, however, that planting is only the first step in gar-dening. Many gardens planted in hope and enthusiasm last year were utter failures; many planted this year are likely to be failures also, unless the persons who plant them realize that gardens require continued care. The two great causes of failures in home ardens are the lack of knowledge of the cultural requirements of the differ-ent vegetables, and the lack of sus-ained interest in the garden thru the eason. Too many beginners at gareason. Too many beginners at gar-lening are filled with enthusiasm in the balmy days of spring, and proceed to plant, plant, plant, without giving the consideration to the tasks that are to follow under the blistering heat of the summer sun. Their interest wanes with the increasing learth of the days with the increasing length of the days, and their crops become choked with veeds and are attacked by beetles and blight. What started out as a garden becomes a waste; and the owner's en-husiasm for gardening is likely to be orever dampened.

The logical thing for a prospective bardener to do is to make a definite lecision to give his garden consistent hare thruout the whole season, and then ermination. In order to give his garen proper care, he must know what to lant in his particular locality and when to plant it. He must know which atieties will best meet his needs. He lust know what insects and diseases expect and how to compat them. he more he can learn about each of the

The proposes to grow before he rops he proposes to grow before he don the season's tasks he will be. It is none too early to begin prepara-ions for this year's gardening. There he three things which should be done low:

Bulletins and circulars and books gardening should be read, and as as possible learned about the

s crops that are to be grown. Seed catalogs should be procured, a list made of varieties and quanthes of seeds needed. If an order is laced for the seeds now, there will be to delay waiting for the seeds at plant-ing time, or substitution of undesirable arieties in order to procure the seeds real hurry. hurry

distance between the rows, and the Proximate time of planting every rop. Since a home garden is a personal matter, the plans made by different instes. However, in all garden plans, life of the colt costs less than at any is desirable that an arrangement of other age. wideals will reflect their particular

the crops be employed which will make the best possible use of the available space and at the same time minimize labor in preparation and care.

When Curing the Pork

A great many more farmers have trouble with the curing of pork than with the slanghtering. It is this part of the work that determines to quite a large extent whether one will have "good old country cured meat" for summer use or not.

If the weather is real cold at the time of cutting up, it might be well to cover the pieces with salt and let them stand over a day before putting them in the

dure. There are many different methods of curing pork, among which is the sugar cure. To every 100 pounds of meat add 12 pounds common salt, 3 pounds brown fresher condition than if purchased in cire. To every too poinds of meat and the market. At the present time, how-ever, the personal advantages to be sugar, 3 ounces saltpeter and 6 gallons gained from a home vegetable garden of water. The sugar cure is considered are much less important than our duty the most satisfactory for curing pork on to the nation. The substitution of veg-the farm. The brine should be made the etables for some of the more concen-day before using so it will be cool. Place day before using so it will be cool. Place the ingredients in a kettle and boil gently for 2 hours. The salt extracts moisture from the meat and acts as a preservative; sugar imparts a nice flavor and saltpeter holds the color.

before using.

Place the larger pieces of meat in the bottom, skin down. Fill in with the smaller pieces. Weight down and then pour in the brine. Bacon and other mall pieces should remain in the brine about six weeks, the hams and shoulders about seven to eight weeks. In case the about seven to eight weeks. In case the brine should became ropy remove the meat, drop in a few pieces of baking soda and stir well or boil the brine again. Hang the meat 7 or 8 feet above the floor in the smoke house, using hooks made of No. 7 or No. 0 galvaniand wire made of No. 7 or No. 9 galvanized wire. Wire hooks are more satisfactory than twine string for this work. Hang the large end of the pieces down and allow the meat which has been in the brine to drip two days before starting the fire. Do not have any two pieces touching each other.

In cold weather the fire should be kept burning constantly. If the meat freezes, thaw it out before starting the smudge, as frozen meat will become heavily smoked on the outside and the smoke will not penetrate within. With a con-stant fire it will require from 24 to 48 hours to smoke the meat sufficiently or hours to smoke the meat sufficiently or to a light straw color which usually is desirable. It is best to sample a piece of bacon or shoulder to determine when sufficiently smoked. Sometimes a fire is built only every two or three days thruout a month, but there is no par-ticular advantage in this method. When smoked sufficiently, cool by opening the ventilator and windows.

Sometimes there is trouble in keeping Sometimes there is trouble in keeping the meat after it has been smoked. It should be stored in a dry, cool, and well ventilated place. Most farmers desire to allow the meat to hang in the smoke house, or hang it up in the attic, cellar, or some other place. If allowed to hang up unprotected it is almost certain to become infested with skippers and be blown with flies. blown with flies.

The most satisfactory way to handle the meat is to wrap it up in paper and then enclose in strong sacks and tie the bag tightly at the top. Then paint the sacks with whitewash to which glue has been added or with the following for-mula which is slightly more satisfactory:

0 pounds barium sulfate.
06 pound glue.
08 pound lead chromate.
40 pound common flour.

Dissolve the flour in 4 gallons of water and the lead chromate in a quart or two of water in a separate vessel. Add the lead chromate solution together with the glue to the flour solution and bring to a boil. Add the barium sulfate solution slowly while stirring. Make the solution the day before using. It may be applied with a brush, or the sack, before the meat is placed in it, may be dipped in (i) A definite plan of the proposed the solution. The meat is ready to be and should be made on paper. This hung up for the summer just as soon as an should indicate the location of the solution is applied. Do not disturb ery kind of vegetable in the garden, until ready for use.

Smoked meat is oftentimes kept successfully by wrapping in papers and burying in an oats bin.

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25

Economy never means neglect

TF your house, barns, cribs, implements and other. farm equipment need painting, then painting is imperative. Delay means decay and decay means The Sherwin-Williams Company have been loss. making paints and varnishes for the farm for fifty years. Every farm surface has been studied and a special finish made for it. This "right finish for every surface" gives you a wearing quality that makes the first cost of the paint unimportant.

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Williams Dry Powdered Arsenate of Lead and Lime Sulfur at the store. Spraying bookletsent free on request.



INSECTICIDES, COLORS, WOOD PRESERVATIVES, DYES AND DISINFECTANTS

Kansans Learn How to Win The War Conference at Topeka Showed What all Per

The War Conference at Topeka Showed What all Persons May do to Help During the Next Few Months

B USINESS as usual will not win county is to learn the amount of extra the war. It would have been an unresponsive person, indeed, that could have sat thru the sessions of the Kansas War Conference held at Topeka, January 17-18, without arriving at this conclusion. Repeatedly was this view expressed by speakers and delegates. Making war is not the usual business of America. Everything is abnormal now, and abnormal activities must be entered upon to meet the extraordinary Making war is not meet the extraordinary entered upon to meet the extraordinary Making war is not the usual business of America. Everything is abnormal activities must be entered upon to meet the extraordinary Making war is not the usual business of America. Everything is abnormal active a cultivator, mower or binder as well." A Shortage of Seed. now, and abnormal activities must be entered upon to meet the extraordinary war conditions. To arouse the people to the necessity of engaging whole-heartedly in these activities, to show them how everyone may serve in one or more ways and finally, to coordinate all their efforts, was the purpose of the conference.

Not many of the persons present actually needed waking up, as was shown by the fine spirit of the gathering. But up and down the land there are many who have not yet really felt the war. For those of this kind who still reside in Kansas the messages taken home from the Topeka meeting will provide

from the Topeka meeting will provide a much needed corrective. Service thru saving and the elimina-tion of waste was strongly urged by Peter W. Goebel, Kansas City, Kan., banker, who is in charge of the war savings campaign for this state. "Lord Northcliffe told me," Mr. Goebel coid "that one of the worst blunders

"that one of the worst blunders said. England has made in this war was the wide adoption of the slogan 'business as usual. Business is not as usual; it is abnormal. If democracy shall live we must everyone of us do voluntarily what is done by reason of force under autocracy."

War Critics.

Referring to the war critics-Mr. Goebel cautioned against uttering any criticism except that which is construc-tive. "Beware," he said, "of the man who won't give to the Red Cross or Y. M. C. A. because 'they're not man-aged right.' That is the very thinnest camouflage to cover his own miserable selfishness.'

"Savings used to win the war must be made in the future. Those made in the past are mainly represented by property that could not add to our wartime resources merely by changing hands." Dr. Thomas Nixon Carver, of Har-vard University, also emphasized the

necessity of centering our efforts on work that will win the war.

"Germany is doing but one thing," de-clared Dr. Carver, "but we are trying to do about a dozen. Nonessentials should be dispensed with. Keep your money in circulation, but circulate it where it will do the most good toward where it will do the most good toward winning the war. Buying of unneces-sary things takes man power away from essential war work. Don't waste man-power in anything not essential to war work, and for God's sake hurry up." A stirring account of the work of the Red Cross in France was given by Henry J. Allen. Tho contributions to the American Red Cross maintain 3,450 of the 5,000 military hospitals in France, he said, this is but one of a large number of the activities of this organization. Infant welfare work, the combating of tuberculosis, and the giving of relief generally wherever it is needed, are all directed by the Red Cross.

Sir Frederick Smith, attorney general of England, made one of the most no-table of the addresses, to an audience of about 4,000 persons. He appealed for constructive co-operation on the part of all the people of America in the winning of this war, as this conflict is not one of armies alone but of entire nations organized to the limit of efficiency.

Harriet Vittum, of the women's division of the Illinois council of national defense, said that trenches for war work have been laid out for the women as well as for the men, and that the woman who fails to do her duty is as much a slacker as the man who tries to evade the draft. The woman power of the country should be mobilized for war service, she declared, as well as the war service, she declared, as well as the

man power. A plan to organize every county in Kansas to help in solving the farm labor situation was outlined by E. E. Frizell, Larned, who recently was ap-pointed farm labor director for the state. According to this plan every

A Shortage of Seed.

That the securing of sufficient seed to plant the increased acreage of corn and sorghums asked of the state is a you are holding in storage, to sell them ing on a plan to eliminate losses and serious problem for farmers in Kansas, gradually, during the winter and spring, delays caused by unjustified rejections according to Dean William Jardine of to get them moving; and, finally, for by consignees. The United States De the Kansas State Agricultural college. In his opinion a more serious seed sit-uation has not existed for 30 years, uation has not existed for 30 years. It will be very unwise, and in erect while the stocks of seeds on hand in it will be unpatriotic, no matter how Kansas are being depleted thru sales to innocent the intention may be, for either neighboring states. During February a of the three factors—consumer, middle-survey of the available seed supply in man, farmer—to fail in the performance Kansas is to be conducted thru the of his part of this potato program—eat, schools of the state, in order that it sell, plant. If the consumer doesn't eat may be distributed to the best advantage. more potatoes, the middleman can't sell. The testing of farm seeds Dean Jardine If the middleman is hoarding and won't also considers of unusual importance sell, the consumer can't increase his po-this year, because farmers can less af- tato ration. And if the present potato ford than ever to spend time and labor surplus is not consumed this winter and in replanting crops. Resolutions were adopted by the con-

ference asking that care be used in year. selecting men for the national army, "A with special regard to the demand for impo expert help for agricultural and industrial purposes; requesting some systematic effort toward securing the return to the farm of men trained in such work but who are now residents of towns and cities; urging the stabilization of livestock markets; recommending the organization of home guards; suggesting to school authorities the advisability of holding school six days a week and, for certain children, making the school day longer; recommending closer co-ordination between the state council of defense and the county councils; urg-ing the card indexing by county coun-cils of every citizen of the county, on these points: general attitude toward the war, war activities, contributions and subscriptions to the various war funds; financial standing, and whether he is employed in a productive occupation.

Better Results With Potatoes

"And how will you have your potatoes?" Daily the question is asked by thousands of waiters in restaurants and cafes all over the country. Daily it is a ques-tion that is decided in the kitchens of American homes. The preferences are not important—so long as there are no calls for "German fried!"—but this fact is of vast concern, from a standpoint of war-winning efficiency: that the question isn't asked and isn't answered often enough. In other words we are not eating enough potatoes. We must increase our potato consumption, and cat less bread, thereby releasing more wheat for our armies and the armies of the allies. In its final terms the potato situation is this: We now have on hand a great many more potatoes than we have ever had before. If we do not eat these potatoes during the winter and spring, before the new crop comes in, a consider- within the bounds of a he able part of the supply will be wasted. sirable ration adjustment.

would be a huge joke. With an evil new crop began to come in, the holders chuckle the all highest would say: "Ha! rushed to the market, glutted it, ham. I won't have to defeat the Americans! mered down prices—and potatoes sold They will defeat themselves! They know for 25 or 30 cents a barrel to starch fac. they can't win the war without enor- tories. We must guard against a repe. they can't win the war without enor- tories. We must guard against a repe-mous food supplies—and yet, after pro-ducing the greatest potato crop in their and the only certain insurance against history they let it waste, they put it to it is to cease hoarding potatoes, to mar-no war use, they allow it to glut the ket the present supply gradually thru market and thus discourage the pro-ducing from planting another such groot!" consumption. Because of cer shorter ducers from planting another such crop!" Oh! how delighted the kaiser would be! And the way to prevent him having that laugh at your expense—a laugh of production as possible. that might mean the end of your free- The Food Administration has no power

dom and the death of your country-is for you to eat more potatoes and less exercise, if necessary, power to prevent hread, for you to market the potatoes innreasonable profits. It is now work. bread; for you to market the potatoes unreasonable profits. you to plant at least as many potatoes this year as you did last year.

will be very unwise, and in effect It it will be unpatriotic, no matter how and steadily, so as to sell out before the innocent the intention may be, for either new crop comes in, and they urge every of the three factors—consumer, middle- one to eat more potatoes—and less spring the farmer will be reluctant to dition have been sold or exchanged at a maintain a large potato acreage next sacrifice on account of appearance. Tops maintain a large potato acreage next

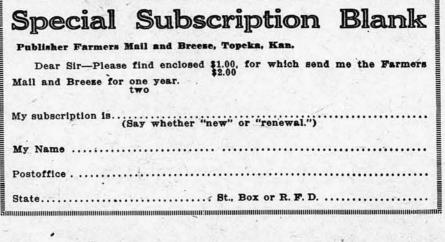
this reason—in the fall of 1918 we'll be or prolonged exposure to the weather, in this war right up to our necks. Some The unkempt appearance of such cars things we're theorizing about now will robs them of interest to the owners, m be stern; everyday realities then. Every matter how good the motor and other, pound of food will count, and count mechanical parts. much. If the farmer hasn't planted po-tatoes in the spring of 1918 we won't on by the war, make it imperative that have potatoes in the fall of 1918. And better use be made of these cars and that without potatoes next winter quite a fawer cars be innked. The plants must without potatoes next winter quite a fewer cars be junked. The plants must few of us may be hungry-because we reduce the output of new cars on account must send wheat and non-perishables to of turning their attention to the more inthe fighters first, and the civilians, for portant work of making parts for miliwhom the soldiers are fighting, can eat what is left.

what is left. The seasy enough to say to the farmer, Navy. "Plant plenty of potatoes this year." This change of condition from maxi-But the way to be sure he will do that mum to minimum production of new is to eat, before time for planting an-other crop, the potatoes he already thas old car most forcibly to mind, and raises produced—and to eat less bread the the question of how it is to be done. while. The way to be sure of a potato supply next winter is to use the po-tatoes held in storage now.

of the United States Department of Agriculture. The 1916 crop was only 280, 953,000 bushels, while the average pro-duction from 1911 to 1915 was 363 million bushels. Thus, we have on hand this winter 155,583,000 bushels more than in 1916 and 79,536,000 bushels more than the average for the preceding years since 1910. We can't well send this potato surplus to Europe, but by eating it at home we can send other forms of food to the front. It should be remembered, in that connection, that America's consumption of potatoes has been below the average per capita consumption of other nations. It has been estimated by some authorities that we could very readily double our potato diet and be within the bounds of a healthful and de-

If we do eat the potatoes now on hand We should profit by the experience of we will add to the food supplies of the the winter of 1914-15, which affords the

If your subscription is soon to run out, enclose \$1.00 for a one-year subscription cases be even better and more attractive or \$2.00 for a two-year subscription to Farmers Mail and Breeze, Topeka, Kan. than the originals.



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consumption. Because of car shortage and transportation limitations every sec-tion should market as near to the point

to fix potato prices, but it has and will partment of Agriculture and the Food Administration urge men who are hold ing potatoes to market them gradually bread.

Renewing the Motor Cars

The utilization of the used automobile has always been a matter of serious thought on the part of the owner. Too often machines in perfect mechanical conbecome torn or misshapen, and the fin-"And why is that so extraordinarily ish—no matter how good in the begin important?" some one may ask. For ning—is destroyed by careless washing this reason—in the fall of 1918 we'll be or prolonged exposure to the weather. in this war right up to our necks. Some The unkempt appearance of such cars

tary airplanes, trueks, munitions, and other equipment needed by the Army and

Looked at in the light of dollars and cents, the \$2,000 car has its exchange value reduced by not less than \$600 to tate reduced by not less than \$600 to tate reduced by not less than \$600 to tate crop America has ever known, 442,-536,000 bushels, according to the latest figures of the Bureau of Crop Estimates actual worth may not be reduced by of the United States Department of Ar actual worth may not be reduced by more than 10 to 20 per cent. Cheaper cars depreciate in somewhat the same

cars depreciate in somewhat the same proportion. The big apparent loss in value is due most largely to the ap-pearance of the top and finish. Depending on the size and condition of the car, this refinishing can be accom-plished at from \$30 to \$100, and will result in bringing the car heat to it. result in bringing the car back to is real utility worth, instead of its exchange value, thereby effecting a considerable saving in money, and restoring the pride It makes of the owner in his machine. It makes him feel that he has accomplished some

thing worth while. The top question is the easiest. A dilapidated or torn top can be replaced quickly and cheaply by the repair man, and for many types of cars new top covers can be purchased ready-made, and can be put on by the owner in little time. These new fabrikoid tops, put of by the shop or by the owner, will in some

Refinishing the chassis and body is about as feasible, and, if done with high grade materials and workmanship, will restore the original beauty. Here, again, the owner has the option of having the job done by the expert in the paint shop or attacking it himself. The new enamels especially designed for refinishing used cars will, where properly applied, produce finishes equal to new cars.

Broken windows in the side and back curtains are replaced easily with py-ralin sheeting, which is the material most used by the curtain manufacturer. and scratched and discolored windows can be brightened by using solutions prepared especially for the purpose. Varieties of colors in the tops and enamels make it massible to activity the solution of th possible to satisfy any desire in this connection.

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THE FARMERS MAIL AND BREEZE

Food Facts

The shortage of wheat in France is becoming more alarming every week. Pastry is now classed as a luxury and its manufacture or consumption is now suppressed except on Sundays and holidays.

Under new food regulations, the Swiss people are allowed only a pound of sugar a month a person. The butter ration is 1-5 pound a month.

The United States Food Administra-tion wishes to place the Irish potato every day in the year on every table in America. Potatoes supply nourish-ment, bulk, mineral salts and a cor-rective alkalinity in the diet. They are plentiful this year and reasonably cheap.

Every American boy and girl is eager to do something to help win the war. An opportunity is provided thru inarrased food production. Just as pa-triotic service can be rendered on the farm at home as on the firing line in France. Our soldiers and our allies must be fed.

No cash prizes are offered—this league is founded for patriotic purposes only— but for the best records made in 1918 these awards will be made by Arthur Capper:

Capper: A trophy cup valued at \$25 will be sent to the boy or girl who makes the best record in meat production. This prize will be duplicated for the best record made in production of food crops. Bronze medals.will be sent to the 10 how and civle who mean the best reco boys and girls who make the best rec-ords in production of either pork, beef, mutton or poultry.. Ten bronze medals will be awarded for

need be kept but an estimate of the the ditch.

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R. F. D. No......Postoffice.....State.....State.

total amount of food produced or con-served shall be provided. Sworn affi-davits will be required from winners of the trophy cups. The contest closes Dethe trophy cups. The contest closes De-cember 15, 1918. Records and story must be sent to the Capper Food Patriots' League, Topeka, Kan., not later than December 20.

December 20. Members of the Capper Pig Club and the Capper Poultry Club will be en-rolled as members of the Capper Food Patriots' League without being obliged to send in applications. Boys and girls in these clubs will have an excellent opportunity to win honors of which they always will be proud. A Food Patriots' League button will

A Food Patriots' League button will be sent to every boy and girl who en-lists. Fill out the coupon and mail it today.

The total acreage sown to crops in the acreage in 1913. The burden of France this winter by the United States.
 The total acreage sown to crops in the acreage in 1913. The burden of showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the Showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the Showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the Showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the Showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the acreage in 1913. The burden of agriculture which has rested since the sole acreage in 1913. The burden of agriculture which has rested since the Showed a decrease of 24.4 per cent from the acreage in 1913. The burden of agriculture which has rested since the sole is contained in the corganic may be obtained by considering the lass is much more rapid.
 Will You be a Food Patriot?
 BY JOHN F. CASE

is made available for the use of plants by the decay of organic matter. It is estimated that 2 per cent of the total amount present becomes available every year. It is this 2 per cent which may be removed by the crops, by leaching and in the form of gas. As the availa-bility of the other elements of plant food in the soil is associated closely with the decay of organic matter, it is evident that the washing away of that part of the soil richest in organic mat-ter results in a lack of all the really The Capper Food Patriots' League is evident that the washing away of that a nation-wide organization of junior sol-diers of the soil. Its purpose is to ter results in a lack of all the really stimulate interest in food production valuable soil plant food. In addition to and food conservation. Any boy or girl the less of plant food, the poorer physi-10 to 18 years old is eligible to join, cal condition of the soil resulting from Na cash prizes are offered—this league the removal of organizm matter. the removal of organic matter and the inconvenience caused by ditches in the fields are to be noted.

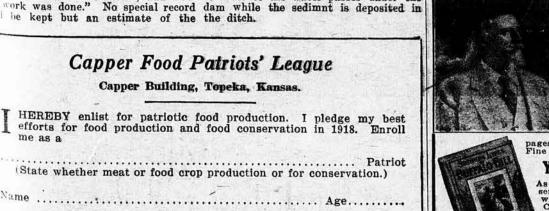
The farm practices that cause

The farm practices that cause ex-cessive erosion are continuous cultiva-tion, shallow plowing, furrowing with the slopes, leaving the land bare in winter, neglect of gullies and the ex-haustion of organic matter. Practices tending to control erosion are systematic rotations containing fewer cultivated crops and more hay and pasture crops, the gradual deepen-ing of soil by occasional deep plowing, the use of barnvard and green manures. Ten best records in each class of food winter cover crops, such as rye and trop production, including wheat, corn, wheat, and prompt attention to gullies trye, oats, rice, potatoes, sorghums and fruits. Ten medals for the best records in potato growing and 10 for general gar-ten medals also will be awarded for be awarded for be trecords in food conservation, and the subsoil and carrying or drying. Ten medals also will be awarded for be awarded for by opening up the subsoil and carrying by the best records in food conservation, part of the water off thru-the tiles.

the best records in food conservation, raming or drying. A certificate of achievement signed by Arthur Capper will be sent to every by and girl who sends a report. Prize awards will be based 75 per cent for records of food production and food conservation and 25 per cent for the story telling "What I have accomplished in food production, and how the work was done," or "What I have accom-plished in food conservation, and how the work was done." No special record need be kept but an estimate of the

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More Livestock for Kansas

28

BY J. C. MOHLER

Everywhere in Kansas can be seen the silo. In these great containers, Kansas farmers compound succulent salads from the by-products of the farm, to add piquancy and nutriment to livestock fare. With the aid of the silo, Kansas farmers are equipped to produce all the materials for the best, most economical rations for livestock. Conditions are ideal for the production of beef, mutton,

pork and milk products. The livestock industry has had a con-tinuous growth. Some of the most noted members of the animal aristocracy have been bred and reared beneath the sunny skies of Kansas. It was a Kansas-bred horse, Joe Patchen-himself a world beater in his day-that sired the champion harness horse of the world, Dan Patch, with a record of 1:55. It was a Kansas sheep that yielded the heaviest heavier class of Kansas fleece. The equines, as well as her cattle and hogs, annually carry off their share of the honors at the fairs and worldwide expositions.

Have you ever noticed that Kansas Have you ever noticed that Kansas always comes out ahead regardless of the character of the growing season? The report may go forth that "poor Kansas is burning up again," but in the fall the Kansas farmer will be found with complacent countenance, well for-tified for winter. If his granaries are not bursting with wheat, then his cribs are with corn. If his cribs are not overare with corn. If his cribs are not over-flowing with a bumper corn crop, then his silos are with silage, and the forage is piled high in stacks and ricks to pre-serve the well-being of his livestock. Why is this? There's a reason! Kansas is so situated geographically

as to give her a long growing season. There are staple crops that can be grown from the beginning of autumn to the next July and still make profitable production. Winter wheat is planted in the fall. If misfortune overtakes it, then the ground can be devoted to eats. If for any cause a promising crop of oats is not secured, the land can be planted to corn. Should the corn crop fail, then is all lost? Not yet! There are the sorghums-kafir, milo and cane-and if the unlikely happens and the sorghums are destroyed, splendid crops of hay can yet be secured from cowpeas, millet, or Sudan grass. And there is always something to put into the silo.

Feeding Value of Pumpkins

Many Kansas farmers, especially in the bottoms of Northeastern Kansas, grow pumpkins every year for stock feed. In some years, and that was true in 1917, excellent yields are obtained. Men who have had experience with pumpkins should be interested in the feeding tests which have been made with this crop at the Massachusetts station, which were re-ported a few days ago by J. B. Lindsey. He concludes, as a result of his work, that:

that: 1. The pumpkin contains 17 per cent of seed and connecting tissue. It is a watery fruit, showing extremes of 84 to 91 per cent, with an average of 88 per cent. 2. The whole pumpkin is relatively rich in the remainder of the fruit. On the basis of rather more total protein than is found in grains and roots. It also contains some 18 per cent of total sugars, of which one-third was found to be present in the form of cane water. The fruit minus the seeds contains nearly 43 per cent of total sugars, which which are composed substantially of in fat, and are composed substantially of the rest being carbohydrates and ash. 3. A number of digestion trials were made with sheep, and showed the pumpkin to be bout 81 per cent digestible. On substan-tially the same water basis, and allowing for the increased food value of the fat, the urnibs. 4. Feeding experiments were made with

pumpkin appears to have about 20 per con-greater feeding value than mangels and turnips. 4. Feeding experiments were made with dairy cows, substituting in the ration 30 pounds of cut pumpkins for 5 pounds of hay. The results secured indicated that 5 to 6 pounds of pumpkins were equal in food value to 1 pound of hay. The Vermont station concluded that 2½ pounds of pumpkins were about equal to 1 pound of silage, and that 6½ pounds were fully equal to 1 pound of hay. The pumpkin had a tendency to in-crease temporarily the fat percentage in the milk, due evidently to the oil contained in the seed. 5. The seeds appeared to be free from any

in the seed. 5. The seeds appeared to be free from any injurious effects upon the animals when fed in the amounts found in the entire fruit, contrary to the notion prevalent among many farmers. In foreign countries they are often aried and ground, and serve as a nutritious and harmless food, if not fed in too large amounts.

and harmless food, if not fed in too large amounts. 6. It is not considered good economy to grow pumpkins exclusively as a food for either cows or pigs, because of their high water content and poor keeping quality. For the latter reason it is advisable to feed them in the late fall or early winter. In one in-stance a yield of 9 tons is reported when they were grown exclusively, on which basis they would yield about 2,000 pounds of

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actual food material (digestible organic mat-ter plus fat multiplied by 2.2) as against 3,000 pounds derived from corn. Their place in the farm economy seems in a way to have been discovered by the farmer, namely, in their limited cultivation together with corn

in their limited cultivation together with corn. 7. They may be fed to cows cut reasonably fine at the rate of 30 to possibly 50 pounds of hay, in addition to hay and a reasonable amount of grain. It is not advised to feed them with other watery foods such as roots and sliage.

Mr. Lindsey also reports on the ex-perience which other men have had with this crop, as follows:

this crop, as follows: A number of experiments are recorded relative to the value of pumpkins as a feed for cows and pigs. Hills fed three cows in three periods of 54 days aplece on hay, silage, a grain mixture and pumpkins. Dur-ing the first and third periods the cows received the hay, silage and grain, and in the second period, hay, silage, grain and pumpkins. Two and one-half pounds of pumpkins with 90.1 per cent of water were substituted for 1 pound of silage, with ap-parently like results. In a second experiment with four cows, feeding pumpkins in the second of three periods at the rate of 40 pounds a cow daily, he concluded that 642 pounds of pumpkins with 87.9 per cent water were equal to 1 pound of hay. French fed six Berkshire pigs that were 8 months of age on a ration of wheat shorts and field pumpkins (cooked) with the seeds

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The draft horse requires sound, strong underpinning to carry his heavy body and successfully move heavy loads.

The dairy cow is the greatest soil builder in the world. She keeps all the fertility on the farm.

January 26, 1918

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Win Thru Co-operation BY LEIGH MITCHELL HODGES

What you see in a comb of honey is a pound of perfect sweetness encased in a wax structure that is a triumph of archi. tectural engineering.

You pay 25 or 30 cents for this, take it home, spread it on your bread to tickle your palate and help fill your physical fuel bin, and— What you don't see in this comb of

honey is a little army of bees working harder than Trojans ever worked, suck.

harder than frojans ever worked, suck. ing the ambrosia from clover blossoms. Your pound of honey contains 7,000 grains of sugar. Every clover blossom provides about one-eighth of a grain, so this pound represents the sweet fruitage of 56,000 clover heads.

But the clover head is composed of about 60 florets or flower tubes. To extract the hidden sweet the bee must probe each of these. This means some 60 separate operations on every flower. If one bee contracted to gather a pound

of honey, that bee would have to explore 3,360,000 of these tiny tubes to secure the material. Allowing 5 seconds for each exploration and 12 hours to a day, it would take this bee some 400 days to produce a pound.

And this would represent only the gathering of the honey, not the time re-quired for building the wax-case and storing the sweet stuff.

But there never yet was a hive with just one bee to each comb. Nature commands pooled effort.

Hundreds of bees to each comb make a comparatively quick and easy operation of what would be an impossible task for

one bee working alone. So what we do not see in the comb of honey is the greatest of lessons in the greatest of success-makers-co-operation. On every side Nature flaunts this les-

son in man's face. The seed itself is nothing.

Sun; soil and moisture must co-operate with the latent germ to produce plant life.

The solidest rock is only co-operating atoms.

The strongest man is weak alone. Only by working with others or winning oth-ers to work with him can he achieve worth-while results.

The million men now training to fight under our flag in France couldn't gain a foot of Teuton territory if they went to

war one by one. Co-operating, they can turn the tide in favor of freedom. The biggest business is bound for fail-

ure if its workers do not co-operate. It is a machine whose parts do not work together. It may run for a while on its own momentum, but it is headed

To co-operate is to join forces and something more. It is to join hearts as well as hands, and slip a little soul in the bargain.

Not to co-operate is to court lonelines, life-rust and loss. The a. B. c. of success is this-Be

a Bee! Co-operate!

Problems of Farm Production

These, then, are the things we must do and must do well besides fighting-the things without which mere fighting would be useless. We must supply abundant food for ourselves, for our armies and our seamen-not only for them, but also for a large part of the nations with whom we have now made common cause -in whose support and by whose side we shall be fighting. Everyone who helps greatly to solve the problem of feeding the nations puts himself or herseli in the ranks of those who serve the Nation--Woodrow Wilson.

Relative Values

All works of taste must bear a price in proportion to the skill, time, expense risk attending their invention and manufacture. These things called dear are, when justly estimated, the cheapest. They are attended with much less profit to the artist than these which every to the artist than those which every body calls cheap. A composition for cheapness and not for, excellence of workmanship is the most frequent and certain cause for the decay and destruction of arts and manufactures.

-Ruskin.

A ration poor in food ingredients has a tendency to reduce the solids, but not the fat in the milk.

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The Iowa Hog House is Warm, Dry and Well Ventilated. When Properly Constructed it is a Permanent Asset in Hog Raising.

Sunlight is a very Important Thing in a Hog House in Kansas; it is one of the Best Disinfectants Known.

MANY GOOD hog houses are being built this year in Kansas. With pork at the present abnormally high prices it is of the greatest importance that good shelter should be provided. This will help to conserve feed, and it will make it possible to save a much will help to conserve feed, and it will make it possible to save a much higher proportion of the crop of pigs. Good shelter is cheaper than high priced feed. The large number of good shelters that are being built in Kansas is a mighty encouraging thing; it means that Kansas is getting on a substantial basis in producing pork. Incidentally the profits of the future will be much higher than in the past for the hog reserve of Kansas raisers of Kansas.

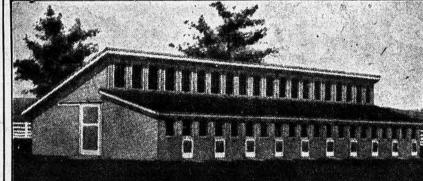


Hogs Require Real Shelter

Moving Animals to New Fields. N

Most Kansas Farmers Who are in the Business Extensively Prefer to Build

Large Houses, With Good Equipment.



To Reclaim Strip Pits

January 26, 1918.

A great deal of land in Southeastern Kansas has been rendered unproductive y coal stripping. This operation con-ists of removing the dirt above the coal, sually with steam shovels. This leaves mixed pile of dirt and rocks behind in mixed pile of the value focus behind in $\frac{1}{1000}$ mixed pile of the value redges. It will be a serious problem 0° reclaim this land for farming pur-oces, but it is being considered in the cast. A recent issue of the Ohio Farm-

It is not say about the prostering in the set and productive farms, the and disfigured surface will be lev-means of the same mighty power of driven machinery by which it was de-opinion among farmers that the coal means of the same mighty power of driven machinery by which it was de-opinion among farmers that the coal means should be compelled by law to he ridges after they have removed the driven must be solved by the future law of the state. Some of the coal com-mixe published plans for undertaking or the state. Some of the coal com-hering the state, registered Herefords Shorthorns-sound rather fanciful to re for practical farmers. Probably most see lands will be abandoned by ther to where a fifter their hidden mineral has been extracted. From the view-of pustice to future humanity the coal response to a success and unproductive inductive the state and unproductive do not believe, that this land will be If this

s should in a useless and unproductive coperty in a useless and unproductive found for it, altho many years may before it is again brought under cul-it is possible that the stripped land utilized in one of two ways; either sing of for forestry. Scattered among pping areas are some high hills and from which the coal must be re-by tunneling. These hills will always bable for tillage, and if the lower land can be so far reclaimed that produce grass. • system of stock can be carried on successfully. Time is coming, if indeed it has not arrived, when a fair profit can be, from the growth of suitable species of reclaiming waste or useless land, this instance we may profit by her g. Within the next 50 years we may to see an extensive practice of for-the East as well as in the West, me of the stripping lands will present problems of reclamation belong to

rtunity for experimental work in this problems of reclamation belong to ure, but there is another problem is already perplexing the farmers of lands. The price paid for labor at pping works varies from \$4 to \$5.50 Many young men have abandoned bor in favor of the more remunera-blic work. Everywhere farmers are to obtain satisfactory help, because e not justified in offering this price mon labor. The result is that the on of staple crops has been de-and at this crisis in our national on all farms should be worked to the any farms are running at about one-is suitable farm labor is always with it is becoming more troublesome here te development of the coal stripping

A Greater Use of Power

sooner had the news been received No sconer had the news been received, at this country had cast its lot with e allies than the majority of farmers Runed to do their part to increase the orld's food supply by planting and livating a greater acreage than they d cultivated heretofore. This meant more were ready to do their bit. The evalue, high prices offered for all produce something.

is speeding up process intensified problems as well as created new ; specially the farm labor prob-arose. This situation was partially last spring by releasing a great of students from their college h school duties for farm work, reality it was me ing of 1918 will not find these sion to deception. men available, as a great many either have enlisted or have diaited into the army. In propor-

tariner to solve alone; he cannot procity. Creed single handed and follow the The world war has proved America to a methods of farming, if he is to be the one self-sustaining country on try on one of the greatest branches of earth. Merican industry successfully. The The advantages, in a national sense, treating forward to the use of being independent in production and power machinery as a means of consumption are so obvious that we complishing the gigantic task of feed-should, after the war, voluntarily con-tinue the practice that conditions have necessitated of preferring goods made in The tractor has taken a definite place.

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of nd 10. The tractor has taken a definite place America. American agriculture. The automo-thas set the farmer to thinking; and It is ye low a single plow drawn by horses, me have expressed the opinion that tractor would not be a success. We der, the cotton gin, the mowing ma- stronger colt.

chine and other labor saving machines could not possibly be used with any degree of success.

The farmer has recognized the value of power on the farm. Ever since 1870 the census has shown a decrease of the number of men working on the farm in proportion to the acres previously tilled, yet the number of acres cul-tivated has increased. The number of horses also has increased during this period, which proved that one man with had this to say about the problem modern machinery and sufficient power ere: was able to do much more work in less time, and increase his output. The tractor will increase the man output accordingly.—Ohio Farmer.

Made in America

The place in which an article was made has for centuries been a hall-mark in-dicating its quality, and much stress has been placed on the location of manufac-ture for many years past. The time was when the gentleman warrior was not sat-isfied with a sword other than one facisfied with a sword other than one from Damascus. The Venetian has been the world's ideal in the manufacture of glass, and perpetual homage has been paid silks

and pottery of Chinese origin. Too little credit has been given to American-made goods, even in view of the fact that in most lines of manufac-

Make Big Profits Pay More

The National Grange, representing 33 states and nearly 1 million members, calls on Congress to im-pose an 80 per cent tax on war profits, as England has done, and

to increase the tax on big incomes. By another year, not counting loans to the allies, the war will have cost the United States be-tween 50 and 75 billion dollars. The Grange points out that raising 80 per cent of this colossal sum by bonds drawing 4 per cent will make the annual interest charge to the American people between 1,600 and 2,400 million dollars. And

this will go to the coupon clippers. As-all our immense war appropriations are virtually to be spent in this country and absorbed large-ly by big business, the fairness of taxing the excess profits of big business 80 per cent for war reve-nue is so apparent that it is be-yond argument. Even then the war burdens of big business will be much lighter than those borne by the people who also contribute the precious lives of sons and fathers. This is not a war to make money. It should be conducted on a live-and-let-live basis. That would mean less bloodshed, less hardship and less expense for rich and poor alike.

more were ready to do their bit. The ture the home producer is the equal of wailing high prices offered for all any in the world, and that in many in-m produce offered an added incentive stances he knows no equal in the matter

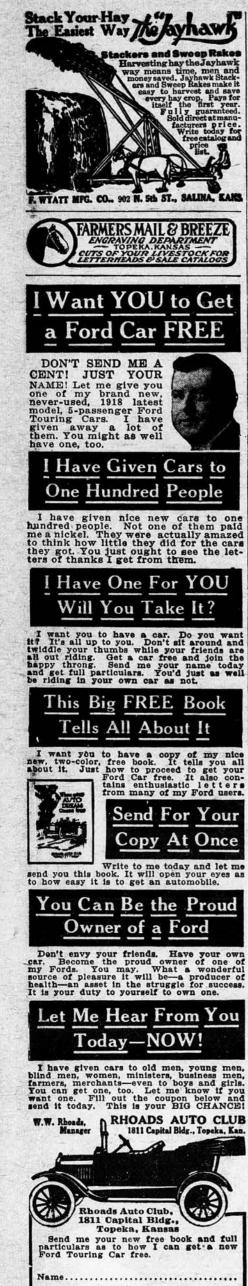
aduce offered an added incentive stances he knows no equal in the matter farmers to make every available of production and quality. Soluce something. For many years American goods, es-speeding up process intensified pecially standard lines, have been marked as imported, in many cases without their even leaving American shores. An all too eager, but undiscriminating mar-ket has bought them, believing itself a most astute purchasing agent, when in reality it was merely paying a commis-

Every American has something in the way of wares, service, or personality which he must sell, and as his chief marthe population, a larger number ket must always be at home, it is a mat-trang men from the farm has en-ter of the simplest logic that he should buy at home, thereby developing a most ter of the simplest logic that he should ted than from any other industry. buy at home, thereby developing a most This problem of farm labor is not for powerful application of interior reci-

It is very essential in pruning to make the times are no longer content to close and parallel to the trunk so that it will heal over rapidly.

A reasonable amount of farm work the read that certain conservative men with careful handling will enable a mare other days agreed that the grain to foal a colt easier and will produce a





Address

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THE FARMERS MAIL AND BREEZE

BY DAVID F. HOUSTON

Why is the United States at war with Why is the United States at war with Germany? Why all this preparation, expense and jeopardy of thousands of American lives? Are we fighting the battles of England, France, Italy and Russia? Are we in the war to pull the chestnuts of the allies out of the fire? Are we fighting to help them recover lost territory or to acquire new posses-sions? Why do we fight at all? Why not employ peaceful means? Why not negotiate? negotiate?

negotiate? These questions are now being asked not infrequently, especially by German propagandists, by a few disloyal natives, and by-some unintelligent and unpatri-otic pacifists. Such people imagine that the time is opportune. They imagine that marians are actualed and that many Americans are astounded and resentful over the prospect of enormous expenditures, burdens of taxation, and sacrifices of life. They assume that there is, or will be, a reaction; that the people have short memories. They place reliance on the fact that the scene of conflict is remote, that our people cannot understand that a defensive war can be waged by forces at a distance and that aggressive action may be in the highest degree defensive.

The main answer to these enemies of America within and without is simple. We are at war with Germany primarily to assert and to defend our rights, to make good our claim that we are a free nation, entitled to exercise rights long recognized by all the nations of the world, to exercise these rights without restraint or dictation from the Prussian autocracy and militarists, to have the kind of institutions we wish, and to live the kind of life we have determined to live. We are at war with Germany be-cause Germany made war on us, sank our ships, and killed our citizens who were going about their proper business in places where they had a right to be, traveling as they had a right to travel. We either had to fight or to keep our citizens and ships from the seas around England, France, and Italy, or to have our ships sunk and our people killed.

We did not make this war. Germany made war on America and only after exercising great patience and enduring grievous wrongs did we formally declare this to be a fact. For more than two years Germany had committed hostile acts against our sovereignty, destroying the property and lives of our citizens, acts which if committed by any smaller acts which it committed by any smaller power or power nearer home would have led to a quick demand from our people for a belligerent response. By turns, as it suited Germany's needs, she was apologetic and contemptuous, concilia-tory and dictatorial, full of promises and heedless of them, finally repudiating her most solemn obligations. In the mean-time, while we were extending hospitaltime, while we were extending hospitality to her diplomats here and representing her abroad, she was carrying on a hostile propaganda within our own borders as well as abroad, promoting plots to destroy our plants, and attempting to sow dissension among our people. Re-call the history of our negotiations with Germany, of our attempts to secure justice by diplomatic, peaceful means.

If we had not accepted the challenge of the war-mad, desperate, dictatorial contemptuous, hypocritical, and medieval Prussian militarists, we would have had to admit that we were not a free nation, that we preferred peace at any price and were interested only in the fleshpots. This country either had to swallow its own words, abdicate its position as a free sovereign power, concede that it had no rights except those which Germany accorded it, hold its citizens and ships away from Europe, or to recognize the its rights, fight for humanity and the cause of civilization and free peoples everywhere, joining its power with the other free nations of the world to put an end to autocratic and brute force. There was one choice we could not make-we were incapable of making. We could not "choose the path of submission and suffer the most sacred rights of our nation and our people to be ignored or violated."

Does not a review make it plain what it would mean to the world if Germany should win and if free, democratic, lawsupporting nations like Great Britain and France were destroyed, if Europe should fall under the domination of Germany, who believe that small and peace-loving fort of the surroundings; to have the The growing period while the animal nations have no standing, and who at- place grow and develop with the children is young is the time the frame is built

Submarine Warfare and Autocracy tach no sanctity to a pledge, no matter that grow up on it and so become a part how solemn? should be permitted to dominate, then the Anglo-Saxon fight for free institu-tions and liberty, persisting from Runy-mede to Yorktown, its fight against the absolute rights of kings and barons, with its Magna Charta, its Bill of Rights, its The idea that the farmer should have Declaration of Independence, and the a fondness for the fields he tills; that heroic fight of the French people for he should think of his home as a real liberty, would have been made in vain. part of his life and have the desire Has it not become patent that Prussia to hand that home down, more attractive is the last more desirable because of his is the last great stronghold of feudal absolutism; that in fighting Prussian autocracy the modern nations are truly assisting the Germans, who are only in part conscious of their servitude, to gain what England, France and America have had for generations; and that we are finally about to make the world safe for democracy and humanity?

Down by the Stream



Where the riffles laugh aloud, And the crooning creek is stirred To a galety that now Mates the warble of the bird. —James Whitcomb Riley.

Do You Love Your Farm?

One of the things many farmers lack is the home-making spirit. They fail to fall in love with the land they tend, with the home in which they live. The place is for sale whenever it looks as if a sale might be profitable; the home is simply a place to stay until another change can be made. Whole communities sometimes seem affected with this de-sire for change. It is not hard to find neighborhoods in which almost every farm is for sale.

The best farming is not done in such a neighborhood. It is seldom done on the farm of the man who expects to sell out and try some other place ever so often. Some of these moving farmers do good work. Now and then can be found a man who seems to have just the tastes and the capacities meeded to take an old run-down place and bring it into shape, and a man of this kind sometimes leaves a long and honorable trail of improved places behind him. But even this man, valuable as his work may be, cannot get the best out of accorded it, hold its citizens and ships away from Europe, or to recognize the plain fact that Germany was acting in a hostile manner against it, fight to defend its rights, fight for humanity and the cause of civilization and free peoples of his own disnesition. If other means which show no evidence of such applications of a permanent contact with the corners and crannies fields remote from the old chalk pits is not such as the productive of such application. If other means which show no evidence of such applications of a permanent is rights, fight for humanity and the contact with the corners and crannies fields remote from the old chalk pits is a permanent plications of this underlying limestone is rights. of his own disposition. If other mem- which show no evidence of such appli-

more beautiful while making the soil more fertile; to take pride and find joy not only in raising better livestock and growing bigger crops, but as well in watching the trees of one's own plantheaded by the Prussian military auto- ing and the vines of one's own training much easier. crats who know no right except might, grow to maturity and add to the com-

If Prussian militarism of their lives and their characters-t

and more desirable because of his la. bors, to his children and to their children, is not a mere notion of sentimen. tality. It is instead the expression of the highest conception of farming. Farming with such ideals as this in Farming with such ideals of a generamind would in the course of a genera-tion make our country districts beautiful beyond our dreams, and not only beautiful, but prosperous and progressive. For it is a fact that the best farming from a purely dollars-and-cents standpoint is done by farmers who love the land, and that home-building farm-ing is in the long run far more profita. ble to the individual than mere crop raising or soil mining can be Souther raising or soil mining can be .- Southers Agriculturist.

Where the Lime Has Helped

The statement that "a limestone" country is a rich country" is a truism much older than American agriculture. Some years ago a friend who was plan-Some years ago a friend who was plan-ning a trip to Palestine kindly offered to collect some samples of soil for me. I was glad of the opportunity to se-cure such samples from that country which once "flowed with milk and honey," and I gave him very specifie directions as to how to collect the sam-ples ples.

I asked him to try to get samples from important agricultural regions, where the land was still being used for crop production, and where he had rea-son to believe crops were being grown when Jesus Christ lived and toiled and taught among the men of that country; where, so far as he could judge, farm-ing had been practiced, perhaps contin-uously by cropping or pasturing, for more than 3,000 years.

He brought me two very complete sets of soil samples. One of these was taken from the Plain of Dothan, where Joseph's brothers went to feed their father's flocks. The other samples were collected in the Plain of Esdraelon, where occurred the victory over the Midianites by the band of Gideon, who "threshed wheat by 'the winepress" when called to lead his people.

In both regions the land was in crops when these soil samples were taken, and all of the samples I found to be rich in limestone.

The chief value of wood ashes for use in the improvement of normal soils is due to the fact that they contain about 50 per cent of lime carbonate, the same compound as pure limestone. In the first century after Christ Pliny wrote: "On the other side of the Po the use of ash is viewed so favorably by farmers that they actually prefet it to the manure supplied by their cattle.

Marl and chalk are natural form - of lime carbonate already in a condition easily pulverized. An English - record of 1795 mentions the "prevailing practice of sinking pits for the purpose of chalking the surrounding land there-from," and states that "the most ex-perienced Herfordshire farmers agree that the chalking of lands so circumstanced is the best mode of culture they are capable of receiving."

On the famous Rothamsted Experiment station it has been found that the fields that had received liberal ap of his own disposition. If other mem-bers of his family do not share in his pioneering instinct, the constant chang-ing is likely to deprive them of much of the happiness of farm life. The highest type of farming centers about the making of a home. To take a place and develop it into the sort of place one really wishes to live in; to make the house and its surroundings more beautiful while making the soil

With fruit trees the constant cifort should be to keep the fruit bearing surface as near the ground as possible It will make the harvesting of the fruit

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Alfalfa Hay for Work Horses BY DR.,C. W. MCCAMPBELL.

If alfalfa hay is fed properly it may be fed to any kind of horses. This ap-plies just as much to work horses as to growing animals. However, it must be cut at the proper time for horse-feed-

ing purposes and must be fed as a con-centrate rather than as a roughage. The method practiced by a majority of men who have been feeding alfalfa to work horses has been to fill the manto work noises has been to fin the man-ger morning, noon and night, allowing the horse to eat all he wishes. Prairie hay has been fed in this way without any serious results, but not so in the case of alfalfa hay. Alfalfa hay is very elatable, and borses that your large palatable and horses eat very large amounts. Excessive urination and soft, windy" horses that are puffed in the ewindy" horses that are puffed in the hocks, stocked on the legs and unable to endure hard work result. This has been the experience of hundreds of horsemen. The trouble is with the method of feeding, not with alfalfa hay. It is believed commonly that the proper time to begin cutting alfalfa hay is when the field is about one-tenth-in bloom. Cutting at such a time makes It is believed commonly that the proper time to begin cutting alfalfa hay is when the field is about one-tenth-in bloom. Cutting at such a time makes very good hay for cattle, but such hay is too "washy" for horses at hard work. To make hay suitable for horses at hard work, alfalfa must be allowed to be come rather mature before cutting; in fact, the field should be in full bloom before the mower is started. The hay should be thoroly cured and stacked. Special care must be taken to prevent spoiling or molding, as moldy, musty or dusty hay of any kind is injurious to horses.
Probably the chief cause of so much trouble in feeding alfalfa hay is over the dust, for the taken to prevent is on the average, 35 per cent more digestible protein than 1 pound of shelled corn, and is fairly rich in carbohydrates and fat. No one would think of feeding a 1200-pound work horse a bashel of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of the of shelled corn in a day, yet by winner the score bore of all corn in a day, yet by winner the score bore of all corn in a day, yet by winner the score bore of all corn in a day, yet by winner the score bore of all corn in a day, yet by winner the score bore of all corn in a day, yet by winner the score bore of the score of the the score of the score of the score of the score of the scor

bushel of shelled corn in a day, yet by giving the same horse all the alfalfa hay he will eat, as large or a larger amount of digestible protein will be fed daily than is contained in a bushel of shelled corn. This excessive amount of highly mitroenous material not only of highly nitrogenous material not only overworks the kidneys, but also causes irritation which may result in a pro-nounced chronic inflammatory condition of the kidneys. Another effect of over-feeding with alfalfa is a cloying of the whole system, resulting in impaired nu-trition, filling of the legs and hocks, softness, excessive sweating, and im-paired respiration. A part of the trouble

Because of its high proportion of di- is saved in the spring. gestible protein, alfalfa balances very As early in the spring as the ground well with corn, and these two feeds can be worked, the cuttings should be gestible

THE FARMERS MAIL AND BREEZE

the poorest for work horses, because it has been cut too green and is very "washy." If, however, the purchaser will select average, well-cured, clean al-falfa hay he will be able to reduce the cost of feed materially by substituting alfalfa hay for a part of the prairie or timothy hay. He may substitute 1 pound of alfalfa hay for $1\frac{1}{2}$ to 2 pounds of prairie or timothy hay, until from one-third to one-half or more of the prairie or timothy hay has been replaced by alfalfa hay, the amount used depending on the quality of the alfalfa substituted for the other hays. The grain ration, too, may be cut down. grain ration, too, may be cut down.

Waste

We growled at the added cost.
We are learning our little lesson, but we have not learned it true, have not learned it true, have not learned it true.
For we waste in some directions the same as we used to do.
Our natural gas we squander to poison the healthy air, we're wasting our oil-flow blindly and nobody seems to care.
In factory, farm and forest we're throwing our wealth away.
And the bill for our careless living our children will have to pay.
Tariff and trusts and wages are problems that must be faced, problem of careless waste.
But the greatest of all our problems is the problem of careless waste.
But the greatest of all our problems is the problem of careless waste.
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Horseradish Culture

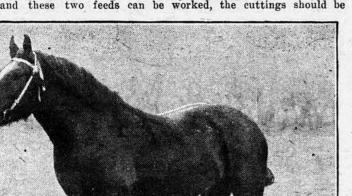
Horseradish roots are ordinarily dug

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ALAST

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with the wind comes from the fact that in the fall and stored in outdoor pits the overloaded digestive tract interferes. or in root-cellars, so that they may be the overloaded digestive tract interferes. or in root-cellars, so that they may be with the proper functioning of the lungs. obtained for use at any time during the Heaves may develop, most cases of winter. The best time to obtain the heaves resulting from indigestion. This discase is at first a functional disturb-ance, but later becomes structural in character and incurable. The summarize, the points to remem-tor summarize the summarize to summarize the summarize to summarize the summarize to character and incurable. To summarize, the points to remem-ber in feeding alfalfa hay to work horses are: first, the hay must not be end may be recognized. Usually are cut straight across at the top and diag-onally at the bottom, so that the top end may be recognized. Usually they end may be recognized. Usually they may be kept successfully by simply burying them in enough soil to keep the mount to be fed, experience seems to indicate that 1.2 pounds a hun-dred pounds live weight a day is about the maximum amount for work horses. Because of its high proportion of di-best for this purpose. These usually are cut straight across at the top and diag-onally at the bottom, so that the top end may be recognized. Usually they may be kept successfully by simply burying them in enough soil to keep them moist. If kept moist, the cuttings ing. By thus taking the cuttings in is saved in the spring.



Alfalfa Hay is a very Valuable Feed for Work Horses, but it Must be Fed Carefully; do not Cut it Too Early,

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make the most economical ration the Kansas farmer who grows alfalfa can feed, since he can control the time of cutting and the manner of curing and cutting for the hay. The man who buys alfalfa hay on the market usually chooses the hay showing the brightest green color. This is often the poorest for work horses, because it has been cut too green and is very spade.

With a good soil, thoro culture, and a favorable season, the roots should reach suitable size by fall. In a poor season, however, they may not reach sufficient size, and it may be necessary to allow them to grow two years. The crop has few serious insects or diseases.-Ohio Farmer.

Bacteria for the Legumes

Careful tests on the bacteria found on the roots of the legumes have been made at the Illinois Experiment station. These have shown how far inoculation may be carried from one variety to another. The specialists who made the tests, T. J. Burrell and Roy Hansen, say:

specialises who made the tests, 1. o. Burrell and Roy Hansen, say: Since the demonstration in 1886 by Hell-riegel and Wilfarth of the fixation of at-mospheric nitrogen by leguminous plants when certain bacteria are present, no crop rotation has been considered rational that does not include a liberal use of legumes. That this discovery is applicable thruout the world makes it of especial value to mankind. The benefit that would result could other ordinaly farm crops be enabled to utilize at-mospheric nitrogen would be inestimable. The importance of any success in this direc-tion is apparent when it is realized that to produce one corn crop of 3 billion bushels requires about 4½ billion pounds of nitrogen, which at the commercial price of 15 cents a pound would cost 675 million dollars. Bacteria have peculiarly shaped forms in part of their life cycle, called bacteroids (bacteria like). These bacteroids occur in that portion of the young nodules which in the cowpea, shows a reddish color. They are very resistant and enable the organism to develop in the rapidly growing nodule. The bacteria are studied under the micro-scope after first being stained with dyes. Temperature does not seriously affect the or-ganism; it grows fairly well between 32 and 122 degrees Fahrenheit, but best at 68 to 82. Rather acid conditions do not injure it.

Careful pot-culture experiments as well as laboratory experiments in cross-inoculation have established the follow-

	GROUP 1.
Mammoth Red Alsike clover. White clover.	clover.
Berseem or E	gyptian clover.
Zigzag or Cow	
	GROUP 2.
Alfalfa. White Sweet of Yellow Sweet Wild Yellow S Bur clover.	clover. weet clover.
Black medick	or Yellow trefoil.
-	GROUP 3.
Cowpea. Partridge pea. Peanut.	
Japan clover. Slender Bush Velvet bean. Wild indigo. Tick trefoil. Acacia.	
Dyer's greenw	1994
Garden pea. Field pea. Hairy vetch. Spring vetch.	GROUP 4. ,
Broad bean. Wild vetch. Lentil.	
Perennial pea.	
Sweet pea.	GROUP 5.
Soybean.	GROUP 6.
Garden or fiel	d bean.

To Make Waterproof Cement

The following mixture for water-proof cement has been used for a long time by the United States Army engineers.

One part cement, two parts sand, three-fourths pound of dry powdered alum to each cubic foot of sand. Mix dry and add water in which three-fourths of a pound of soap has been dissolved to each gallon. • This mixture is nearly as strong as

ordinary cement and is impervious to water.

Manure left in the open yard thru the summer months may lose one-half its plant-food value due to fermentation and leaching. Rotted manure which has been saved carefully will be richer in plant-food elements, ton for ton, than fresh manure. It requires $1\frac{1}{2}$ to 3 tons of fresh manure to make a ton of rotted manure, which means that the organic matter is reduced greatly and the total quantity of plant-food elements also is decreased by fermentation and exposure. Except in special cases and for certain even or conducing conditions there is or gardening conditions, there is crops no advantage in rotting the manure; better apply it fresh from the stable before any loss occurs.



31

"Last Winter," writes John W. Neal of Clift Va., "I used Save-The-Horse on spavin. Have some time to see if lameness would come b the horse is fine and I would not take the p a full bottle for what I have left."

SAVE-The-HORSE

Crade Mark, Registered —the greatest of all remedies, is sold with a signed Guarantee to return money if it fails on Ringbone, Thoropin, SPAVIN or Shoulder, Knee, Ankle, Hoof or Tendon Disease. Every year for over 22 years, thousands of stubborn and supposedly incurable cases are cured by Save-The-Horse after all other methods failed. Be prepared I Write today for FREE 96-page horse BOOK, sample of guarantee and expert veterinary advice — all FREE. Always keep a bottle on hand for emergency. TROV CHEMICAL CO

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esting novel and you should surely read it. SPECIAL OFFER: This dramatic story book sent free and postpaid for two new or renewal subscriptions to the Household Mag-azine at 25 cents each. The Household Mag-ations from 20 to 32 pages of stories and special departments monthly. Address HOUSEHOLD; Book Dept. N. G. 36, TOPEKA, KANSAS

What would the oil in your engine show

OR years, both motorists and engineers were in the dark as to the amount of friction and consequent wear due to the sediment formed in the average motor oil.

20.

Inferior oil breaks down under the terrific heat of an automobile farm tractor or stationary engine and forms voluminous black sediment. This sediment causes rapid wear of the parts because it crowds out good oil at points where friction occurs.

> How a lubricant muzzles the tiny teeth of friction

If you could look at the surface of a bearing or other engine part through a powerful magnifying glass, what would you see?

Not a smooth, even surface, but thousands of micro-scopic teeth. Sediment excludes the protective film of the oil and allows these tiny teeth to grab and tear at each other, thus causing rapid wear.

A practical proof of superiority

The Sediment Test, illustrated at the right, is as simple as it is convincing. The bottle to the left contains a sample of ordinary oil

taken from the crankcase of an engine after 500 miles of running.

In the right-hand bottle is a sample of Veedol after being used for 500 miles under identical conditions. Notice that ordinary oil contains over five times as much sediment as Veedol.

Make this test for yourself Drain the oil out of your crankcase and fill with kerosene. Run the engine very slowly for 30 seconds and then clean out all kero-sene. Refill with Veedol and make a test run. You will find your engine has acquired new power and a snappy pick-up. It will run more smoothly and give greater gasoline mileage. Buy Veedol today

Your dealer has Veedel in stock, or can get it for you. If he will not, write us for the name of the nearest dealer who can supply you

An 80-page book on lubrication for 10o Written by a prominent engineer. Used as a text book in many schools and colleges. Also contsens Veedol Lubrication Chart, showing correct grade of Veedol for every make of car, tractor, or stationary engine, winter or summer. Send 10c for a copy. It may save you many dollars,



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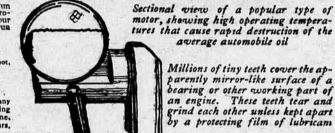
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Millions of tiny teeth cover the ap parently mirror-like surface of a bearing or other working part of

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You Can Save 50%

The Farmers Mail and Breeze has con-tracted with one of the largest sewing ma-chine factories for the distribution of their latest model machine. By taking these ma-chines in large quantities and shipping di-rect from the factory to our subscribers we are able to offer these machines at about half the price you would pay sewing ma-chine agents. By this plan our subscribers save middleman's profit and get the ma-chine at practically factory price.

Guaranteed Ten Years

It Costs Nothing to Investigate Our offer is a real money saving proposition for our readers. We do not ask you to do any soliciting in order to take advantage of the plan we submit. If you are interested in getting a first class guaranteed sewing machine at a real bargain send us a postal card and say, "I want full information about your new guaranteed sewing machine offer." It places you under no obligation.

Topeka, Kansas

January 26, 1918.

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A Chance for Wheat BY W. H. COLE.

Cowley County

Wheat is scarcely large enough for the rabbits to graze on. This does not necessarily mean that the wheat is not all right. The plants seem vigorous and healthy enough but the lateness of seed. ing coupled with lack of moisture and a great deal of cold weather have greatly retarded the growth. A few acres of wheat put out about the first of Novem. ber in the kafir stubble is all up, and while the plants have not made any stool to speak of they have the appear. ance of being strong and healthy. While the wheat is more backward than usual here this winter the general condition is excellent, and with favorable wheat weather after spring opens up we can see no reason for being pessimistic over the prospects.

We recently received an inquiry from a man in Osborne county regarding some seed kafir, and in the letter he made the rather startling assertion that according to his best belief there was not to exceed 100 bushels of kafir that matured in that county in the season just past. Kafir has long had the repu-tation of being a drouth resister, but when a territory as large as a county produces so small an amount the severity of the drouth is at once apparent.

Owing to the fact that the engine which operates the feed grinder has been out of commission we have been cooking the kafir for the shotes for the last two weeks. A 50-gallon kettle is used, and enough may be turned out at one cook-ing to last the 25 head about two days. The feed is cooked over a slow fire of poles and usually about $\frac{1}{2}$ day is re-quired to do the job right. This does not mean that we stay around the kettle the entire time. Such is not the case. Enough water is put on the kafir to keep it from sticking to the bottom of the kettle, and after the fire is started attention once an hour is all that is necessary. We fire the fire is that is necessary. Kafir cooked in this manner swells to perhaps three times the original size and is devoured greedily by the young porkers. The gains they are making are sufficient evidence that it is a most excellent ration. It is made more palatable by a handful of salt thrown into the kettle while it is cooking. A drink composed of warm well water liberally enriched with shorts and tankage is used as a beverage to wash it down.

A month or more ago we bought some tankage and paid \$3,50 a hundred for it. we recently made a trip to town for a new supply and were greatly surprised to learn that the present price is \$5.25 When the price of hogs was set by the government a few months ago the farm-are the present price is \$5.25 ers thought they could see prospects of a good profit in the hog industry, and if prices of feed stuffs had remained normal there would have been a good profit, but with shorts selling for nearly \$3 a sack and tankage jumping \$1.75 a hundred in a month it begins to look as if the silver lining that showed up recently was not really so bright after all. If our Uncle Samuel takes the reins in hand and dictates what price we farmers shall receive for our pork on the hoof we believe it would be equally just and right for him to say what we should have to pay for such stuff as tankage and shorts—feeds that are abso lutely necessary in the production of pork.

A day was spent recently in motoring to the county seat, a distance of about 50 miles, and all along the way we could not fail to notice the scarcity of feeds of all kinds. But very little alfalfa still remains in the stack. A harmour still remains in the stack. A large per-centage of the prairie hay, too, has been heell all and shipped out, so remains on many farms is a scant supply of dwarfed corn fodder and a too small supply of kafir or cane roughness. A cold, late spring, coupled with the shortage of rough feeds, will mean that it will be necessary for a good many persons to buy some high-priced oil cake. It is seldom that farmers in this por-tion of the state are kept out of the fields for so long a time as they have been this winter since winter really set in. For six weeks the ground has been small supply of kafir or cane roughness in. For six weeks the ground has been frozen almost continually. While the frost has not gone down to exceed per-haps 6 inches it has been sufficient to the unit of the second second second second second second second to un all for the second sec tie up all farm work except getting "P wood and the like.

If soil conditions are at all favorable

January 26, 1918.

for it in the spring there will be a good many acres of Sweet clover put out here. Not many years ago people turned up their noses at-Sweet clover, and even yet one occasionally hears a person say that their horses will not eat the Sweet elever which grows along the road. Such clover which grows along the road. Such a statement may be true all right but farmers are finding out that if they have a few acres of the plant fenced that the stock will eat it all right and do well on it. The White was first planted here and naturally has the prest-that farmers are finding that the ice, but farmers are finding that the Yellow comes on a little earlier in the Yellow comes on a little earlier in the spring and does not get so large and woody, and that variety is receiving a great deal of attention. A friend planted a few acres of the White a few years ago and somehow failed to get a good stand. Instead of replanting with the White he scattered on the Yellow the following spring so that now the two varieties grow upon the same soil, and the stock prefer the Yellow to the White. In surfasing either variety great care In purchasing either variety great care should be taken to obtain the perennial seed.

Put Down Profiteering

[A Recent Capper Letter to the Food and Fuel Administrators at Washington.]

Believing you appreciate that a little dependable information from the grass roots outweighs a great deal of the other kind from any source, I am for-warding to you this extract from a letter I have just received from the pastor of the First M. E. Church at Kanorado, Kan., a most excellent man and pastor:

and pastor: Mr. Hoover, Dr. Garfield, and the govern-ment have asked me to do many things to promote the conservation of food and fuel and to help the Red Cross and other funds. I have gladly and willingly done what they asked. The people have responded in a heral way. We must accomplish what we have set out to accomplish as a government. But there are some things which need to be righted, and by letting you know the conditions here, your appeal might do much. We are a loyal and a patriotic people, but there is much dissatisfaction about such matters as these: We are asked to conserve flour-which we have done-and are urged to use cornmeal, rye, etc. But these substi-tutes are much more expensive than flour, altho flour is somewhat cheaper than it was. Best wheat is selling for \$1.90 to \$1.95. Flour is \$2.90 for \$1 to \$1.05 a bushel. Corn hes cornmeal much more atnensive This makes cornmeal much more atnensive

unds. This makes cornmeal much more expensive an flour. For the coal we bought at \$8 and \$8.50 a a last winter, and even less than that the summer, we now have to pay \$10. These matters ought by all means to be medied, for the people are complaining of a discrimination and will complain more ad more if the wrong is not rectified. I a hoping your influence with those in au-ority will avail. Such testimony in regard to the

such testimony in regard to the rankly unjust prices of many necessities constitutes a large part of my daily mail. These letters are not complaints from disgruntled persons. In many in-stances they come from those who, like this pastor, see already the ill effect

of profiteering on the American home. This is a people's war and should be conducted as one. There should be no profits in it for anybody above the ac-tual live-and-let-live basis. The people expect and are willing to suffer neces-sary hardships and, if I may judge of sary hardships and, if I may judge of their temper by those we have in Kan-sas, they will meet these hardships with smiling fortitude while supporting the intional government with all their might. This gives us only the more argent incentive for putting the blood-sucking profiteer where he belongs, an example and a warning to all of his kind, before they drain the people of their strength and resources.

am wishing more power to your arm, that you may soon bring to bear the full strength of the government

against these traitors ARTHUR CAPPER,

Governor.

To Dig Post Holes

I wish to construct a portable hole machine to be operated by a small gasoline engine, both mounted on a truck con. Can any reader give me plans building this machine? I have been Wagon. told that such machines are used in the Plains Country in Texas. I have 30 miles of fence to build next spring, and the scarcity of labor requires that I get a new method. I will pay \$1 cash for the plan I may adopt. Larned, Kan.

A. L. Stockwell.

Breeding animals that have weak constitutions and organic weakness will transmit these defects to their progeny:

Other things being equal, pigs from mature sires and dams grow faster and feed better.



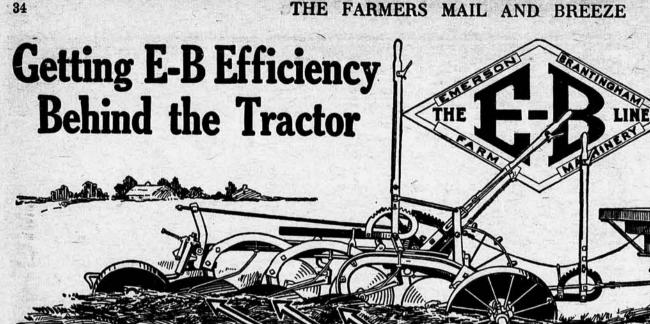
THE FARMERS MAIL AND BREEZE

FREMONT IRON WORKS 1512 W. 5 St., Oklahoma City, Okla.

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FARMERS MAIL AND BREEZE Dept. C. O., Topeka, Kar



F you followed the E-B Engine Plows at the tractor demonstrations, you noticed how the plows turned the furrows in a steady flow, buried all trash and stubble, and required the least attention from the operator. The mould boards scoured clean-the plows just seemed to fit the soil and the pull of the tractor.

Lighter draft because load is carried on thoroughly lubricated wheel bearings—no landside friction—real quick detachable shares—no nuts to turn—no wrench to find—your hands the only tools needed. An exclusive E-B feature. This was only to be expected in E-B Engine Plows. They are a part of the E-B Line—"the tools of prosperity"—built with knowledge gained by 66 years of implement building.

Years before the tractor was introduced, E-B (Emerson) the original Foot-Lift Plows held unquestioned leadership. And when the tractor proved its greater efficiency in farm power, we built into E-B Engine Plows all the big features of our famous "Foot-Lift" Line. There were features proved out through years of actual field experience.

Thus in an E-B Tractor outfit you are sure of getting the greatest possible assurance of satisfactory service. Write us for literature on E-B Engine Plows and learn about their features which save time and fuel behind the tractor—and which insure good plowing in any field on your farm.

Whenever you need anything in farm machinery, look for it under the E-B trademark. It shows the way to better, more profitable farming. Ask your dealer for E-B Implement Company goods when you visit his store, or men-tion the machine you are interested in and we will mail facts. Also field views and suggestions for use as prepared by the E-B Agricultural Extension Dept.

Emerson-Brantingham Implement Co., Inc. Good Farm Machinery ROCKFORD, ILLINOIS Established 1852



January 26, 1918.

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Feed Shortage Pinches

Despite the rapidity with which all classes of livestock have been leaving Kansas farms this winter the scarcity Kansas farms this winter the scarcity of feeds has begun to pinch stockmen in many districts. Water is also re-ported scarce in some places tho the recent heavy snowfall has helped this situation to some extent. Bad drift-ing of the snow exposed many wheat ing of the snow exposed many wheat ing of the snow exposed many wheat fields to the severely cold weather, also blocking the highways. Wheat pros-pects generally are poor. Peach trees have been killed by the cold. Threshing of maize and sorghums is practically finished. Reliable seed corn will be difficult to obtain this spring.

Gray County—We have had severely cold weather and a heavy snow that blocked traffic on the east and west roads. The snow was of little benefit to wheat as it blew off the fields. Early sown wheat probably is past help, but the late may grow if we have moisture. Stock is win-tering well in spite of short feed.—A. E. Alexander, Jan. 18.

Alexander, Jan. 18. Osborne County—Farmers believe wheat is dead. We have had 6 inches of snow re-cently but it blew off the wheat fields Stock doing well considering shortage of feed.—W. F. Arnold, Jan. 19. Pawnee County—Corn husking has been delayed and wheat needs moisture badly Cold weather is quite hard on the stock and there is no surplus feed. A good snow fell January 9 and the thermometer dropped to 18 degrees below zero. Good horses and mules are in demand and bring good prices. Car shortage continues. Considerable corn going to market at \$1.50; kafir and maize \$1.40.—C. E. Chesterman, Jan. 15. Brown County—Weather is very dry and

Brown County—Weather is very dry and the ground is badly cracked. Wheat seems to be holding up fairly well. Water is scarce and feed will not hold out in some places. Hay \$20 to \$30; wheat \$2.05; corn \$1.45; oats 70c; cream 50c; eggs 46c.—A. C. Dan-nenberg, Jan. 19. Wyandette County—Wheat secure is out

E-B Quick

wrench. J mur hands. Attached or re-moved in a few seconds

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The Tools of

Prosperity

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your hands.

One pull of the leve One pull of the lever forces share into position and locks it. No bolts. No

Just

Wyandotte County—Wheat ground is cov-ered with snow. Roads are smooth with ice. Stock doing well, but hay and other foeds are higher than ever before. Peach trees have been killed. Our deepest snow amounted to 4 inches.—G. F. Espenlaub, Jan. 19.

Jan. 19. Osage County—Corn is moving rapidly and most of it is being shipped in the ear. Farmers are afraid to hold it in cribs in large quantities, and about half of the crop is in the field yet. Plans are being made for putting in large acreages this spring. Feed is high but not scarce.—H. L. Ferris, Jan. 19. Descing County—Seven inches of snow fell Decatur County—Seven inches of snow fell last week but it drifted badly, and only about half of the fields are covered. We have had more zoro weather already this winter than we usually have the entire season. Corn is scarce and hard to get.— G. A. Jorn, Jan. 19.

season. Corn is scarce and hard to but G. A. Jorn, Jan. 19. Anderson County — Our thermometer dropped to 22 degrees below zero January 12 with about 4 inches of snow on the ground. Where snow did not blow off the fields, the wheat will be greatly benefited. Not much is being done on the farms except daily chores. Horses are bringing good prices. Corn \$1.97; oats 70c; butterfat 49c: eggs 50c.-G. W. Kiblinger, Jan. 18.

daily chores. Horses are bringing good prices. Corn \$1.97; oats 70c; butterfat 49c; eggs 50c.—G. W. Kiblinger, Jan. 18. Sheridan County—Fine weather prevails since the blizzard. No loss of livestock has been reported. Feed situation is not likely to become serious. Corn shipped in is seli-ing at \$1.65; barley \$1.35; oats 90c.—R. E. Patterson, Jan. 16. Cloud County—A good snow fell last welk. which may provide some protection and fur-nish moisture for wheat, also water far stock. Roads have been blocked and rural carriers delayed several days. There are a good many public sales, and cattle and hogs are selling high, but horses are cheap due partly to scarcity and high cost of feed Some corn is in the fields unhusked and occasionally some stock dies. Eggs are scarce and high.—W. H. Plumly, Jan. 18. Miami County—We have had real winter weather since the last report and the ground has been covered with several inches of snow. The only work we can do now is 10 bring in feed and a few other chores. Some grain, hogs and cattle are going to market Coal is scarce. Butterfat 47c; eggs 50c; corn \$1.20 to \$1.35.—L. T. Spellman, Jan. 18. Summer County—Another snow visited our county last week but a high wind caused most of it to pile up in the roads alons fences where it will not do the wheat any good. Most of the stock is going thru the winter quite well. Wheat \$2; corn \$1.62; oats 68c; butter 45c; butterfat 52c; eggs 45c; oats 68c; butter 45c; butterfat 52c; eggs 45c; oats 68c; butter 45c; butterfat 52c; days 45c; oats 68c; butter 45c; butterfat 52c; eggs 45c; oats 68c; butter 45c; base 45c; base 45c; bas

Books County—Feed is scarce and most of the hogs have been sold. But little snow is left on wheat fields. The mercury registered 22 degrees below zero. Bran \$1.85; shorts \$2.30; flour \$2.90; eggs 45c; butterfat 4^kc; corn \$1.70; alfalfa \$32; straw \$18.—C. O. Thomas, Jan. 18.

Coview County—The ground has been cov-ered with snow for 10 days, which has been a great protection to the wheat. Stock is doing well and no disease is reported. More farmers are without hogs than ever before fages 55c; butter 50c; butterfat 51c; mill \$3.—L. Thurber, Jan. 19. Stevens County—It hoke now as it lots of

32.-L. Thurber, Jan. 19.
Stevens County—It looks now as if lots of the late sown wheat is dead. The big snow drifted badly and very little is left on the wheat. Cattle are eating lots of feed and done, but it will yield from 2 to 20 bushels. Maize \$2.65; butterfat 47c; butter 45c; eggs 40c.-Monroe Traver, Jan. 17.
Ottawa County—The big snow last week covered the ground to a depth of 10 inches. but it drifted badly. Most of the wheat fields are fairly well protected from the severe cold weather. Feed is abundant and stock is wintering well. Snow has been re-moved from all main traveled roads and traffic has been resumed.—W. S. Wakefield. Jan. 18.
Geary County—A high wind piled the snow

Geary County—A high wind piled the snow in drifts_on east and west roads and blocked traffic. The wheat was not benefited very much, due to the fact that it drifted from the fields. We have received some reports of cattle dying.—O. R. Strauss, Jan. 19.

or cattle dying.—O. R. Strauss, Jan. 19. **Marshall County**—Wheat fields are dry but it is too early to tell much about the con-dition yet. Little corn is going to market as elevators are full and no cars are avail-able. Few sales but everything is going high. Good reliable seed corn will be scarce next spring and will bring a good price.

Cattle are in good condition and no reports of loss are coming in. Corn \$1.25 to \$1.46; shorts \$2; bran \$2 to \$2.50; cream 50c; eggs 50c; hens 19%c; chiz 18%c.-C. A. Kjellberg, Jan. 19. Lincoln Commiy-Weather is very cold and the snow drifted badly. Wheat prospects are very poor. There is plenty of feed yet and stock is doing good. Everything sells high at public sales. Corn \$1.50 to \$1.60; eats \$5c; hogs \$15.50; eggs 50c; butter 35c; hens 18c.-E. J. G. Wacker, Jan. 18. Kenray County-Farmers have finished

and Sole, head of the second s

washington County—C. L. Robler, Jan. 19: Washington County—The east and west roads have been blocked due to badly drift-ing of snow. Farmers are not doing: much-hint the chores. Cream 50c; eggs 79c.—Mrs. Birdsley, Jan. 10. Lyon County—January has been a real-winter month and the thermometer has dropped to 20 degrees below zero. Stock-mit well housed is suffering from severe winds. Four the set of snow on the fields are doing fairly well, and with plenty of snow during February and March will make a good showing. Farmers are shipping out straw while the prices are high.—E. R. Grif-fith, Jan. 20.

The Torrens System Explained

Under our present antiquated system every time a piece of real estate changes hands, some lawyer must examine into the legality of the title. Old records, tunning back for many years, must be searched at great labor and expense; and the next time the property is sold, and the next and the next, the same identical work must be done over and over again and other big lawyers' fees paid a system as foolish and uneconomical as paying a man to carry a brick from one side of the street to the other and back again and again interminably.

Now the Torrens system proposes that instead of this peremial investigation of the same thing, this unending job of rolling the stone up hill and then letting it roll straightway down again, and all to no purpose save the paying of unnec-essary fore to lawyars who might better fees to lawyers who might better serve their fellows in some other way-instead of all this, we say, the Torrens system proposes that the state shall examine the title once for all, guarantee it, and register it, so that forever after-ward it may be transferred almost as easily, quickly and cheaply as a govern-ment bond or a share of stock in an in-corporated company. The original cost of a Torrens deed, even including the little tax for the guarantee fund, would be little more than the present cost of one or two title investigations; and ever after the farmer would be able to trans-fer his property, or secure loans upon it, at from one-fourth to one-twentieth the present cost .- Progressive Farmer.

Be Careful Whom You Pay

Do not pay subscriptions for the Daily Capital or the Farmers Mail and Breeze to anyone except those whose names are mentioned below.

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When the donkey saw the zebra He began to switch his tail. "Well, I never!" was his comment;

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1

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January 26, 1918.

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WYANDOTTES. PURE BRED WHITE WYANDOTTE COCK-

TURKEYS.

BOURBON RED TURKEYS. MRS. BERT BOURBON RED TURKEYS. MRS. BERT Fick, McAllaster, Kan. PUREBRED WHITE HOLLAND TOMS FOR sale. G. H. Ford, Moran, Kansas. NARRAGANSETT TURKEY TOMS \$6, HENS \$4 Mrs. S. W. Rice, Weilsville, Kan. PURE BRED BOURBON RED TURKEYS. Elzabeth Leonard, Effingham, Kan. PUREBRED BOURBON RED TURKEYS. \$4.50 to \$7. Maggie Edson, Walker, Mo. THOROBRED BOURBON RED TOMS, \$6; hens \$4. Ralph J. Keyser, Dorrance, Kan. PURE BRED MAMMOTH BRONZE TOMS, 5.60, Mrs. H. A. Halloway, Fowler, Kan. MAMMOTH WHITE HOLLAND TURKEYS. Prize strain. Mrs. J. M. Teaney, Lathrop, Mc.

Mo. THOROBRED BOURBON RED TOMS, \$5.00, hens \$4.00. Mrs. J. Q. Pollard, Lamar, BOURBON RED TURKEYS. TOMS and \$6.00. No hens. E. V. Eller, Dunlap,

M. B. TURKEYS. INQUIRIES AN-ed promptly. Mrs. Fred Julian, Klowa, GIAN

THOROBRED BRONZE TURKEYS, BIG kind, Mrs. H. F. Pickett, Route 6, Em-Kan. PURE BRED BOURBON RED TURKEYS. Toms \$6.00, hens \$4.50. Mrs. John Houser,

Kan. Udal, Kan. PURE BLOOD M. B. TURKEY TOMS, \$7 and \$8 each. Mrs. T. H. Gaughan, R. 2, Earleton, Kan. PURE BLOOD GIANT BRONZE TURKEYS. Champion Goldbank strain. Dona Daily, Scottsville, Kan.

FINE NARRAGANSETT TUR-Hens \$5, toms \$8. F. L. Petterson, le, Kan.

Leys. Hens \$6, toms \$8. F. L. Petterson, <u>Asherville</u>, Kan.
PURE BRED BRONZE TURKEYS, TOMS §8 to \$12, hens \$5 to \$8. Ralph Mariner, <u>Fredonia, Kan.</u>
PURE BOURBON RED TURKEYS. HENS §4, Jons \$6, Mrs. John Hime, Rt. No. 1, <u>Manchester</u>, Okla.
WHITE HOLLAND TURKEYS. YOUNG toms and pullets. Write for prices. JNO. E. Miller. Burdett, Kan.
PURE BOURBON RED TURKEYS. TOMS with white tip wings and tall, \$5.00. Mrs. Dave Lohrengel, Linn, Kan.
ENTRA LARGE, PURE WHITE HOLLAND toms \$6.00 and \$8.00. Hens \$4.00. Mrs. Will Jones, Wetmore, Kan.
Goldbank strain. Toms \$10 to \$25. Hens is up. Vira Bailey, Kinsley, Kan.
100 PURE BRED WHITE HOLLAND TUR-keys for sale. Toms \$6.00. Hens \$4.00. S. Box 24.

MAMOTH BRONZE TURKEY TOMS. Champion Goldbank strain, from prize winners. \$10 each. Jennie Shamburg, Scottsville, Kan.

SEVERAL VARIETIES.

 ¹⁹⁴⁹ COCKERELS, 49 VARIETIES. FRBE book. Aye Bros., Blair, Neb., Box 5.
 ^{10ULOUSE} GEESE \$3.25 EACH. BUFF Dux \$1.50 each. Mrs. Frank Neel, Bev-Kan. S TWO DOLLARS SETTING. RHODE and Reds, Buff Rocks, stock for sale. Imman, Fredonia, Kan. ARIETIES FINE PURE BRED CHICK-Ducks, Geese, Turkeys. Prices low. logue 4c. A. A. Ziemer, Austin, Minn. SINGLE COMB WHITE AND BROWN shorn cockerels. Rose Comb Reds. Guineas. Emma Ahlstedt, Roxbury, Kan

RAISED PURE BRED WHITE sshan cockerels, pullets, eggs. Buff aton ducks. Mrs. Geo. McLain, Lane,

ARD LIGHT BRAHMA COCKS AND rels for sale; also Bronze turkey Mrs. Fred O'Daniel, Westmoreland,

SALE-PUREBRED ROSE COMB ^a Leghorn cockerels and pullets and Wyandottes. Jasper Singley, Meade,

MISCELLANEOUS. NS

NS BEST BROODERS. HAVE 100 sale, Correspondence solicited. H. C. Durham, Kan. THE

Alfalfa is the most popular general farm crop in Kansas. It has produced

't two years.

Neellent profits in all counties in the

THE PARTY

If managed properly the pigs should not receive a check in growth at weaning time.

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BEEDS AND NURSERIES.
 DRY LAND ALFALFA SEED. DE SHON, Logan. Kansas.
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 ALFALFA SEED \$8.40 BU. SACKS FREE. Frank Lanier, Belle Plaine, Kan.
 STRA WBERRY PLANTS, \$2.50 PER 1000.
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 A FEW RED TEXAS SEED OATS LEFT. Order now B. Anderson, Blue Mound, Kan.
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 FUR RED TEXAS SEED OATS LEFT.
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 FUR GOLD MINE AND BOONE COUNTY White tested seed corn. Price \$3 per bu. 4. F. Feigley, Enterprise, Kan.
 WE ARE IN MARKET FOR CANE SEED and kaffir corn. Send samples and prices. Brooks Wholesale Co., FL Soott, Kan.
 BLACKHULL WHITE KAFIR SEED, PURE and well matured. \$2.60 per bu, sacks furnished. Otto Apolio, Fredonia, Kan.
 PIND BEANS: DELIVERED YOUR STA-tion ten cents per pound fifty pound lots or more. C. F.-Hines, Elkhart, Kansas.
 SUDAN GRASS-1917 RECLEANED CROP, 30c pound. Black Amber cane \$4.00 per 100 bs. Both good quality. Thomas Morton, 0xford, Kan.
 MAFR SEED. PURE BLACK HULLED White, graded. Well matured. Will all grow. 5c per lb, sacked. J. C. Lawson, pawnee, Okla.
 Mod BU. CHOLER RED'S YELLOW DENN fay on the sacks. H. W. Chestnut, Kincal, Kan.
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 MITE BLOSOM SWEET CLOVER SEED foo and \$12.50, Darry seed \$4.50 per pu. seed corn. Matures in 110 to 120 days.
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OKLA. DWARF AND STANDARD BROOM Corn Sned, Cream and red dwarf Maize, dwarf Kafir and Feterita \$7.00; Amber and Orange cane \$10.00, Sudan \$25.00, all per 100 Ibs., recleaned and prepaid. Claycomb Seed Store, Guymon, Okla.

LIVESTOCK.

SHETLAND PONY BARGAIN SALE. WM. Harr, Riverside, Iowa. Harr, Riverside, Iowa. FOR QUICK SALE: 10 CHOICE HOLSTEIN cows. V. E. Conwell, Wetmore, Kan. FOR SALE: TWO REGISTERED HOL-stein buils. L. A. Swartz, Bancroft, Kan. REGISTERED JERSEY BULLS, \$50. TWO registered cows. Percy Lill, Mt. Hope, Kan.

Kan. FOR SALE — ONE BLACK IMPORTED Percheron stallion. E. Plessinger, Chey-enne Weils, Colo. DUROC JERSEY BOARS, ALL AGES, FOR sale. Cholera immune. Henry & Purvis, Johnstown, Colo. FOR SALE DECISION DEPCHERON

Wyandottes. Jasper Singley, Meade,
A LARGE WHITE HOLLAND TUR-toms and hens, Columbian Wyandotte
Idalard, very tame; White African st. French Houdan cockerels. Robert
MALE, C. RHODE ISLAND REDS.
NA-R. C. RHODE ISLAND REDS.
Naret of sale \$2.00 and up for good g stock. Eggs in season. Emmett
Princeton, Mo.
THREE REGISTERED JERSEY BULLS, 6 to 12 months, solid light fawn, good indi-viduals. S. S. Smith, Clay Center, Kan.
THREE REGISTERED HOLSTEIN BULLS, 2 MO.
to 12 months, solid light fawn, good indi-viduals. S. S. Smith, Clay Center, Kan.
REGISTERED HOLSTEIN BULLS, 2 MO.
to 4 years old. From high producing an-cestry. \$50.00 up. V. E. Carlson, Formoso, Kan.
SALE-10 RED COCKERELS, 10 Berne and 150 pullets. Pen each Modlin's Poultry Farm, Topeka, Kan.
Younder and 150 pullets. Pen each Modlin's Poultry Farm, Topeka, Kan.

FOR SALE, OR TRADE FOR GOOD JACK, bay Percheron, 4 yr, old stallion. Regis-tered. Smooth and sound. J. H. Howard, Larned, Kan.

Larned, Kan. FOR SALE OR TRADE—YOUNG COACH stallions, ages two, three and four years. Broke to work. Farm horses at farmer's prices. C. W. Bergner, Isabel, Kan. FOR SALE—ONE EIGHT YEAR OLD, REG., coal black, Percheron stallion, sound, good bone, disposition and conformation, weighed 1850, good individual, worth the money. Harvey F. Knopp, Chapman, Kansas. FOR SALE—THREE REGISTERED JER-sey cows, bred to Owl's Pogis Torno. His sire's dam S16 pounds. Also one bull calf sire's dam S16 pounds. Also one bull calf Kansas.

Kansas. 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 in-sertion. Try it.

D068. FOR SALE-TRAINED COLLIE, 6 STAG pups 8 months old. Paul Fife, Nickerson, Kan. Kan. FOR SALE—RUSSIAN WOLF HOUNDS, large, white. Full blood. Guaranteed Earl Hill, Canton, Kan. SCOTTISH TERRIERS. GREAT RAT. watch, pet, stay home little dog. Frice list 5c. Wm. Harr, Riverside, Iows. SHEPHERD AND CANADIAN SHEPHERD puppies, males \$7.00, females \$6.00. Natu-ral heelers. Frank Lott, Danville, Kan.

FOR SALE.

FOR SALE—HEDGE POSTS; CARLOTS.
H. W. Porth, Winfield, Kan.
FOR SALE. HEDGE POSTS. CAR LOTS.
D. C. Beatty, Lyndon Kansas.
THREE UNIT CALFWAY MILKING MAchine. W. S. Jones, Linwood, Kan.
FOR SALE—WATERLOO BOY TRACTOR, 12-24, almost new. J. C. Wilkerson, Bucklin, Kansas.
FOR SALE—12.24 WATERLOO

12-24, almost new. J. C. Wilkerson, Buck-lin, Kansas. FOR SALE-12-24 WATERLOO BOY GAS tractor and 3 bottom Oliver engine gang, good as new, \$450.00. L. K. Landrus, Quinter, Kansas. FOR SALE-DEERE 10 BOTTOM PLOW, old ground and sod bottom, five sets of shears good as new. Frice \$500 cash. Ralph E. Lathan, Minneola, Kan. OR SALE OR TRADE-ROOMING OR duplex house, 26 rooms, brick, all modern, close in, price \$20,000. Also smaller house 10 rooms, brick, all modern, close in. Price \$7,000.00. 209 E. 7th, Topeka, Kansas. HIGH PRICES PAID FOR FARM AND dairy products by eity 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 in-sertion. Try it.

LANDS.

LANDS.

LAND ON CROP PAYMENT PLAN, JESS.
Kisner, Garden City, Kan.

FALE OR TRADE-40. A. GRASS
land, 7 miles good town. J. H. Brotemarkle, Lenora. Kan.

We have Solve GOOD LAND THAT WE
can exchange for other, property, what
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FARMS WANTED.

I HAVE SOME CASH BUYERS FOR SAL-able farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

FEMALE HELP.

A 42-PIECE DINNER SET FREE—CON-sisting of 6 Large Dinner Plates, 6 Pie Plates, 6 Individual Butter Plates, 6 Fruit Dishes, 6 Cups, 6 Saucers, 1 Large Meat Platter, 1 Covered Sugar Bowl (2 pleces), 1 Cream Pitcher, 1 Large Vegetable Dish and 1 Pickle Dish. Words cannot describe or Pictures show the Beauty and Value of this Superb Dinner Set. It will be sent to you Absolutely Free, all charges prepaid in return for a few minutes of your spare time. Don't overlook this Wonderful Offer. Only 97 Sets in stock so write Today. Address C. A. Nudson, 501 Capital Bldg., Topeka, Kan.

MALE HELP WANTED.

WANTED-MEN ABOVE THIRTY TO represent us, best paying contract, steady employment. F. H. Stannard & Co., Nur-serymen, Ottawa, Kansas. WANTED-MARRIED MAN FOR FARM work. A man preferred with son or sons under draft age and old enough to do any kind of farm work. Box 237, Cedar Vale, Kan. Kan. A COMPETENT FARM HAND, oughly experienced and married, wants farm employment after Feb. 1st. Corre-spondence solicited from patricite, church-going people. Harmon, care Mail and Breeze.

LIVESTOCK COMMISSION MERCHANTS.

SHIP YOUR LIVE STOCK TO US-COM-petent men in all departments. Twenty years on this market. Write us about your stock. Stockers and feeders bought on or-ders. Market information free. Ryan Rob-inson Com. Co., 425 Live Stock Exchange, Kansas City Stock Yards.

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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.

AGENTS.

WE PAY \$100 MONTHLY SALARY AND furnish rig and expenses to introduce guar-anteed Poultry and stock powders. Bigier Company, X 608, Springfield, Ill.

FARM HAND.

WANTED: MARRIED MAN AND SON 12 to 15 years old, experienced farmers. Give references and wages expected. Steady em-ployment for right man. Wesley W. Trumbo, Peabody, Kan., R. 3.

MISCELLANEOUS.

LEARN TO BE A NURSE. ADAMS, 1006 Rialto, Kansas City, Mo. CONTAGIOUS ABORTION PREVENTED by R. Hgrold, Manhattan, Kansas. WANTED-60 HEAD OF CATTLE FOR pasture the season 1918. R. W. Crisp, Herington, Kan. WANT ROOMING HOUSE IN GOOD CITY. Will buy furniture and rent building. Sondergard Realty Co., Ramona, Kan. FORD MANIFOLD HEATERS \$2.50, POWER attachments \$3, Nonkick burglar proof cranks, \$3.50; Free Trial. "Oakley." Box 535, Omaha, Neb. LEAF TOBACCO - KENTUCKY'S BEST.

Dates, Omaha, Neb.
 LEAF TOBACCO — KENTUCKY'S BEST, for chewing or smoking, 3 yrs. old. 3 lbs.
 \$1.25 prepaid; 7 lbs. \$2.50. Special prices on large quantities. S. Rosenblatt, Hawesville, Ky.

arge quantities. S. Rosenblait, Hawesville, Ky.
FASTURE WANTED IN KANSAS FOR grazing season of 1918. Give location, num-ber of acres, how watered, shipping point and price. Address F. L. Merchant, 425 Livestock Exchange Bidg., Kansas City, Mo. 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 in-sertion. Try it.
OLD FALSE TEETH WANTED-DON'T matter if broken. We pay up to 15 dollars per set. Also cash for Old Gold, Silver and broken Jewelry. Check sent by return mail: Goods held 10 days for sender's approval of our offer. Mazer's Tooth Specialty, 2007 S. 5th St., Phila., Pa.
BIG WESTERN WEEKLY SIX MONTHS 25 cents. Biggest and best general home and news weekly published in the West. Review of the week's current events by Tom MoNeal. Interesting and instructive depart-ments' trial subscription-twenty-six big issues-25 cents. Address Capper's Weekly. Dept. W. A.-12, Topaka, Kan.

To Avoid a Can Shortage

A shortage of tin for commercial purposes threatens to make the dairy inposes threatens to make the dairy in-dustry more and more dependent on the present supply of cans. The Food Ad-ministration recommends that all ship-pers of milk and cream bring into use as soon as possible all cans along the highways and byways of traffic and keep them in good condition by thoro drying after washing and by careful drying after washing, and by careful handling.

Managers of dairy establishments and shipping stations are asked to discon-tinue the practice of lending cans. Experience has shown that these cans as a class are especially subject to rough treatment and are consequently shortlived.

Dairymen who ship cream—the Food Administration suggests—can market as much butterfat as formerly in fewer cans by skimming the cream richer. Ten cans of 35 per cent cream contain, for instance, as much butterfat as 17 cans of 20 per cent cream. The richer cream leaves more skimmilk on the farm and makes shipping charges con-siderably less a pound of butterfat.

FARM LANDS

PBODUCTIVE LANDS. Crop payment on easy terms. Along the Northern Pac. 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.

WESTERN LOUISIANA

Along the Kansas City Southern Railway offers exceptional advantages to the general farmer, stockraiser, dairyman, commercial trucker, poultry man and fruit grower. A prosperous country with salubrious climate, abundant rainfall, fertile soils, excellent wa-ter, good health and good markets. Land values \$15,00 to \$40,00 per acre. Address for information, F. K. Woodruff, Director of De-velopment, 603 K.C.S. Bidg., Kansas City, Me,

FOR RENT.

pasture for easn and Write the owner, B. F. Boys, Independence, Kan.

SALE OR EXCHANGE

EXCHANGE BOOK, 1000 farms, etc. Trades everywhere. Graham Bros., El Dorado, Kan,

TRADES EVERYWHERE, book free. See us before buying. Bersie, El Dorado, Kan,

January 26, 1918.

BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are reliable and bargains offered are worthy of consideration

Special Notice All advertising copy discontinuance or ders and change of reach this office by 10 o'clock Saturday morning, one veek 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.

88

860 ACRE RANCH in Gove Co., Kansas. W. M. Mason, Walnut, Kan.

GOOD WHEAT SECTION; well located; will split; some in cultivation. \$25 per acre. Good terms.. C. W. West, Spearville, Kan. 480 ACRES highly improved stock and grain farm, close in. Price for quick sale, \$45 per acre. S. L. Karr, Council Grove, Kan.

80 AND 160 ACRES, IMP., at \$50, with terms, short time. Write Decker & Booth, Valley Falls, Kan. 820 ACRES WICHITA COUNTY, KANSAS. \$7.50 per acre quick. A. P. Nichols, Kansas City, Mo.

600 ACRES, well improved, lays good. Price \$50 per acre. Other farms for sale. John J. Wieland, Emporia, Kan.

160 ACRES GRASS, east part Osage Co., one ml. from station. Price \$35 per a. McCown Realty Co., Emporia, Kan.

160 A., IMP., 4 MI. TOWN, \$65 A. 125 a., 1 mi. town, \$10,000. Triplett Land Co., Garnett, Kan.

320 A., 3 MI. TOWN. ALL IN GRASS. All level, no imp. Price \$7,000. Terms on art. H. J. Settle, Dighton, Kan. part.

GOOD WHEAT SECTION; well located; will split; some in cultivation. \$25 per acre, Good terms. C. W. West, Spearville, 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.

8600 ACRE RANCH, Pawnee Valley; 350 cultivated. Well improved. Running water. All tillable. 250 acres wheat; one-third goes.
 \$25 an acre. D. A. Ely, Larned, 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.

80 A., 2½ MI. WAVERLY, 5 room house, good large barn. Some hay land, good blue grass pasture, good farm land. Price \$5,000. W. H. Lathrom, Waverly, 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.

I HAVE BUYERS for large tracts of grass lands. I want you to list your holdings with me. Also oil lands. Guss Schimpff, Burns, Kan.

FREE LITERATURE describing best Ar-kansas lands. Write Burchfiel-Beneau Land Co., American National Bank, Okia-homa City, Okia.

LANDS IN STEVENS and Morton Countles, Kansas, and Bacca County, Colorado.

Write us for prices. John A, Firmin & Co., Hugoton, Kan.

FOR SALE. All kinds of farms in Northeastern Kan-sas. Send for printed list. Silas D. Warner, 727½ Commercial St., Atchison, Kan.

A SNAP. 160 acres level wheat land, 100 acres in cultivation, part terms, \$2100. 7 quarters all join, nearly all good plow land, 60 acres in wheat, ¹/₂, mi, school. \$11 an acre. C. N. Owen, Dighton, Kan.

FINE STOCK BANCH, 1300 acres fine blue estem grass, abundance of water, 100 plowed, large buildings. 7 miles shipping on Santa Fe; \$40 per acre. T. B. Godsey, Emporia, Kan.

80000 A. RANCH. 7500 a. grass. 2 ml. of spring water. All fenced, cross fenced, good ranch improvements. 1500 a. alfalfa land. 4 ml. town, main line R. \$15 a. Terms. F. H. Templeton, Spearville, Kan.

TWO NICE HOMES, close to Valley Falls, Kan., where the Meyers Milch Condenser is located. Good improvements and the best of soil. 220 a. at \$140 per acre. 240 a. at \$125 per acre. Good terms. Benj. J. Griffin, Valley Falls, Kan.

400 ACRES in Klowa County; 6 miles of County Seat, 340 acres in cultivation; 300 acres wheat. Improved. Owner will sacrifice for quick sale. \$35 per acre. Here is your The Pratt Abstract & Inv. Co., Pratt, Kan.

175 A., ½ MI. AGRICOLA, 4½ Waverly, 10 alfalfa, 20 clover, 20 blue grass pasture, 18 wheat goes. New house and barn, gran-ary and erib, two chicken houses, two good wells, never failing. Will carry \$4,590, 6%. \$12,000. W. H. Lathrom, Waverly, Kan.

440 ACRE STOCK AND GRAIN farm, 3 miles of shipping point, on Santa Fe. 250 a, best Cottonwood bottom alfalfa and corn land, balance pasture. Permanent water, two sets good improvements. Price \$100 per a. Terms. Cowley-Hays Real Estate Co., Cottonwood Falls, Kansas.

240 ACRES well located, smooth land, well divided for crops. 60 acres in wheat, 6 reom cottage, good barn and other improve-ments. Write for descriptions of this or any size farm interested in. Large list of farm bargains to select from. Mansfield Land Co., Ottawa, Kan.

CHASE COUNTY stock farm. 282 acres, 5 ml. Elmdale, ½ mile school. Daily mail, tele-phone, good roads, 100 acres cultivated in-cluding 25 acres alfalfa, 20 acres wheat. 180 acres pasture, timber, creek. Fair improve-ments. No trades. Price \$15,000. J. E. Bocook & Son, Cottonwood Falls, Kan.

4320 ACRES northwest of Guymon, Texas Co., Okla. Every acre farm land. Price \$15 a., terms. Several good farms in Has-kell county, Kansas. 1120 acre improved ranch with living water in Hamilton county, Kansas, for only \$12.56 per acre, terms. Clay McKibben Land Co., Dodge City, Kansas.

480 ACRES, well improved, 4 miles of town, all perfect, 200 acres good wheat, all goes, ideal home, on R.F.D. and phone, Ness Co., price \$30 per acre. Owner's boys gone to war wants to retire. Will take good residence in small Kan. town part pay, bal. some cash and carry some on land. Possession any time. Box 153, Utica, Kansas.

IMMEDIATE POSSESSION of splendid 120 a. farm; good improvements; choice loca-tion; 54 a. wheat; 40 a. blue grass pasture; well watered; fine shade. Come at once or write for full description of this or any size tract interested in. Choice list to select from. Mansfield Land Co., Ottawa, Kan.

TWO 80 ACRE FARMS ON EASY PAY-MENTS. Both of these farms located in Franklin county, Kansas. Both within 5 miles of good railroad towns, on the Santa Fe, both of them good, all tillable farms; fair improve-ments. \$65 per acre. \$1500 cash. long time on rest at 6%. Possession March 1st. Casida & Clark, Ottawa, Kansas.

160 A., 1½ MI. TOWN, 4 room house, new barn, slio, 20 acres wheat. Price \$6,000, a snap. Terms.
 160 a., 3½ mi. town, 8 room house, large barn, 35 acres wheat goes with farm. Price \$65 per acre. Terms. Fine farm.
 80 acres, 6½ mi. town, on Sonta Fe Trail, improved and a good one at \$1,000. Terms. GEO. M. REYNOLDS Waverly, Kan.

Hosford Inv. & Mtg. Co., Lawrence, Kan.

160 Acres For \$1,000. Summer County; good upland soll; improved; good water; pasture; meadow; wheat; farm land; poss.; only \$1000 cash; bal., \$500 year.

Hurry. R. M. Mills, Schweiter Bldg., Wichita, Kan. NESS COUNTY

Good wheat and alfalfa lands at from \$15 \$30 per acre. Also some fine stock ranches. 'rite for price list, county map and Hierature, Floyd & Floyd, Ness City, Kan. to \$30 Write

160 ACRE FARM-\$2,000.00 Only \$475.00 cash, bal, very easy terms, 6%. Located near Liberal, productive soil. Small one room house, 100 acres farm land, 60 acres slightly rolling pasture. Get busy. Griffith & Baughman, Liberal, Kan.

60 ACRES, WELL IMPROVED Fine water, ½ mi. school, all tillable. \$45 a. \$800 down, bal. easy terms. 60 a.imp., all tillable, \$45 a. \$800 down, bal. easy terms 6%. 160 well imp., 2½ town, 100 a..cult., 40 wheat goes, 40 pasture, 20 meadow, orchard, \$45 a. \$3000 will handle. Limestone soil. **P. H. Atchison, Waverly, Kan.**

ARKANSAS

160 ACRES, 80 cult. Orchard. No rocks. \$20 acre. Robert Sessions, Winthrop, Ark.

IF YOU WANT A GOOD FARM at reasonable prices, write for our list. Dowell Land Co., Walnut Ridge, Ark.

220 ACRES well improved, bottom farm, 2½ miles good railroad town, ½ mile good school. R.F.D. A real value. Price \$8,000. easy terms. J. M. Doyel, Mountainburg, Ark.

240 ACRES FINE, SMOOTH LAND Barton county, Missouri, improved, in culti-vation. Frice 360 per acre; part cash, balance terms. E. H. Fair, Centerton, Ark.

BENTON CO., best place. We have he water, white people, no swamps. wants first letter. Land \$10 up. Box 55, Pea Ridge, Ark. Tel

160 ACRES 5 miles Leslie, 40 acres cultiva-tion, good improvements, good water, orch

tion, good improvements, good water, oren ard, 140 acres can be farmed. \$1800, terms Wallace Realty Co., Leslie, Ark.

WISCONSIN

80,000 ACRES our own cut over lands. Good soil, plenty rain. Write us for special prices and terms to settlers. Brown Bros. Lumber Co., Rhinelander, Wis.

SOUTH DAKOTA with its limited farm acre-age is placed fourth in production for 1917 by Government report, giving it first place per farm and per capita. The state will loan money for development of its farms. If you would share in this, get bulletins of Immi-gration Department, Chas. McCaffree, Com-missioner, Capitol E 3, Pierre, S. D.

Gen. Mdse. Stock For Sale Am closing out \$7,500 stock and fixtures and will sell for cash at very liberal dis-count from original cost and it was bought right. Good opening for business; also have hardware stock and building same town for sale. No competition, fine opening. Come at once if you mean business. M. W. Peterson, Copeland, Kansas.

MISSOURI

SMOOTH 32 A. FARM, POLK CO., MO. B. Anderson, Blue Mound, Kan. GOOD CROPS here 40 a. valley farm \$1000. Free list. McGrath, Mountain View, Mo.

50 A., IMP., 3 mi. town, 30 fine valley, \$1800 Easy terms. W. Elrod, Owner, Norwood, Mo SPECIAL BARGAINS, good investment on farms for sale. Write for free list. Terms to suit. J. H. Engelking, Diggins, Mo.

FOR RENT. 320 acres of land in Chautauqua county, 7 miles from rallroad; 120 acres in cultivation; 150 acres in pasture; 30 acres in meadow; balance in lots, etc. This is lime. stone land and all upland. Will rent the pasture for each and farm land for grain. \$12,000 GRAIN produced last year on 480 a. farm. \$22,000 time. Price \$80 per acre.
 W. R. Taylor, Aldrich, Mo. CASS COUNTY, MO., 120 a. well improved, fine blue grass, corn and stock farm, \$75 per a. Charles Bird, Harrisonville, Mo.

FOR STOCK and grain farms in Southwest Missouri and pure spring water, write, J. E. Loy, Flemington, Missouri.

\$100,000 INCOME PROPERTY, in Kansas City, Mo., to exchange for farm lands. Want clear for equity over \$30,000. Hart, Commerce Bldg., Kansas City, Mo. POOR MAN'S CHANCE-\$5.00 down, \$5.00 monthly, buys 40 acres grain, fruit, poul-try land, near town. Price only \$200. Other bargains. Box 425-O, Carthage, Mo.

126 A. HIGHLY IMP., 100 cult., bal. pasture and timber, black valley land, spring and well, 4 miles town, \$47.50. 300 a., highly imp., 226 cult., bal. pasture and timber, black limestone, abundance liv-ing water, \$40 a. Terms. B. L. Presson, Bolivar, Mo.

200 ACRES, three miles of Billings, twenty-five miles of Springfield, Mo. Well im-proved. Seventy acres sown to wheat. Very cheap at \$65 per acre. If you want to buy a farm, write us as we have some good places, 40 acres up. We only advertise good farms. Try us and be convinced. Keystone Realty Co., 418 College Street, Springfield, Mo.

20 A. IMP., fruits of all kinds, 1¼ ml. town, \$3,000. Very desirable.
280 a., well imp., 125 cult, 100 a. bottom, bal. pasture and timber, living water. If sold soon \$25 a. Four miles town.
110 a. imp., 50 cult., bal. timber and pas-ture, living water, \$25 a. Terms. Exchanges made. Have farms to sult every one.
R. J. Frisbee, Mt. Grove, Mo.

OKLAHOMA

FOR SALE. Good farm and grazing lands in Northeastern Oklahoma. Write for price list and literature. W. C. Wood, Nowata, Oklahoma.

MR. INVESTOR: Would you buy land that paid in rents 30% last year and can be rented for 20% cash for this year? If so write Southern Realty Co., McAlester, Okla.

OKLAHOMA: What farms for sale. Well improved, smooth upland or bottom farms, in best farming section of Oklahoma; also in the oil belt. Price \$50 to \$100 per acre. Write or call on J. R. Sparks, Billings, Okla.

FOR SALE, by owner, all or part of 2 sec-tions rich, smooth, dark to nearly black loamy, semi-subirrigated land, well located in Jackson County, Okla. This is all fine level alfalfa land, fine for alfalfa, cotton, wheat and other grain, will mature 40 bu. wheat or bale cotton per acre. Price \$50 per acre. Box 136, Manguin, Okla.

COLORADO

Irrigated Lands Under

Twin Lakes Land and Water Co. System. Twin Lakes Land and Water Co. System. Crops raised include large yields wheat, oats, corn, alfala, sugar beets, cucumbers, potatoes, squash, pumpkins, cantaloupes, meions, tomatoes, onlons, apples and cher-ries. Cattle, sheep and hog raising very profitable. Market facilities admirable. Land one to four miles from shipping station. Beet sugar factory, alfalfa mills, pickling plants, canning factory and creamery at Crowley and Ordway, Colo. Electric light and power. Pure spring water available for farm use, Churches of all denominations; good schools and roads. For special excursion rates, prices, terms and free booklet, write me. First Nat'l Bank Bidg., Pueblo, Colo. F. O. Talmadge, Twin Lakes Land & Water Co.

FLORIDA

WANTED farmers to buy bargains in our good N. Florida agricultural and stock lands. J.B. Streeter, Burbridge Hotel, Jacksonville, Fla.

SOUTH DAKOTA

OZARKS OF MO., farms and timber land, sale or ex. Avery & Stephens, Mansfield, Mo. 40 A. TANEY CO., MO., for western land, or live stock. Is clear. \$1.000, E. W. Moore, Spearville, Kan. LAND IN NESS, Trego, Lane, Scott, Finney and Greeley Counties. Write for list. V. E. West, Dighton, Kan. FOE illustrated booklet of good land in southeastern Kansas for sale or trade write Allen County Investment Co., Iola, Kan.

HARDWABE and implement stock with bldg., \$12,000. Two stocks of geni. mdse. with bldgs. \$8,000 each. Wants good farms Sondergard Realty Co., Ramcna, Kan.

60 ACRES, IMPROVED; 4 mi. N. E. Siloam Springs. All tillable. 700 apple, 50 peac, 100 peach, 50 cherry trees. \$5,000.00. Mer-chandise or clear residence.
 E. J. Jasper, Council Grove, Kan.

160 ACRES of good valley land, no over-flow, joining thriving city. Lots of good water, schools and churches. Will sell or trade for smaller property. Address Box 76, Netawaka, Kan.

IMPROVED half section, 10 miles Ogallah, Kansas. 50 acres can be plowed, balance rather rough but good pasture. Price \$25 per acre. Mortgage \$2500. Trade equity for gro-cery stock, residence or suburban property, clear. Western Real Estate Co., Ellis, Kan

FOR SALE OR TRADE, by owner, 800 acres, well improved, fine alfalfa, cotton or wheat land, in three tracts in Greer County, Okla Some incumbrance, long time. Will sell for cash and terms or will accept mdse. of clear city property. What, have you? L. G. Roberts, Mangum, Okla.

CHOICE

N. ½ 7-18-30, all level, no improvements. Market three miles. Trade for horses. Price \$20 per acre. M. F. Cavanaugh, Elkhart, Kan.

To Supply the Food

When a trained young farmer or stockman is taken from the farm and ranch, the nation, our soldiers at the front and our allies are deprived of the necessary foodstuffs he can produce from the soil and on the hoof. The young man who remains on the farm and works with might and main to grow the wheat and produce the meats to feed our soland produce the meats to feed our sol-diers in France, and to provide for their dependents at home, is a soldier of in-dustry who will be remembered along with the boys who fight in the trenches. Every day since war was declared Governor Capper has appealed to the federal government to have a broader vision in this critical time then the more

vision in this critical time than the mere duty of recruiting an army. An army is needed, it is true, to fight for the honor and integrity of the nation and it is forming a million strong, but a greater army is needed in the industrial live³ —especially on the farms and ranche⁴ where the necessities of life must be produced.

With these demands Governor Capper has coupled another that comes home to every farmer and stockman in Kan-as; He has pointed out the injustice of regulating the price of the farmers wheat while the big manufacturers of the country and the horde of profit-hogs revel in the great fortunes they are piling

up at the expense of the producers. The Congress of the United States, where these injustices must be righted, seems not to have heard from the pro-ducers. But that body will hear from them when Arthur Capper, their friend and advocate, takes the oath as United States Senator from Kansas March 5 1919.—Phillipsburg News-Dispatch.

Storms Increased Car Shortage

owing to the fact that this paper neces-is printed several days prior to the date bilication, this market report is arranged as a record of prices prevaiding at the the paper goes to press, the Monday eding the Saturday of publication.)

ceding the Saturday of publication.) he food administrator has made a strong out for more cars to move corn to market, gen to the necessity of getting it to the ters where it can be kiln dried before germinating season, which is likely to be much of the immature corn to spoil, at least will make marketing of such in unsafe during warm weather. Reports the country indicate that much corn the farms must be marketed during this d weather to avoid ioss. ar shortage makes it impossible for coun-grain buyers to take as much corn as is ered by the farmers, and this results in attifactory marketing conditions, and an isormally wide margin between the price farmer gets and the prevailing prices at minal markets.

ninal markets. ansas City corn receipts, 543 cars, were ut, the same as the preceding week's, a showing considering the handicap of weather which slowed down railroad fic in this territory, but in Chicago and Louis arrivals were kept down to small portions by the great snowstorm of a k ago.

ortions by the great snowstorm of a ago. mand in the Kansas City market last at no time was reported strong, but tofferings were sold from day to day. extreme range Saturday was \$1.40 to , compared with \$1.32 to \$1.75 a week and 95 to 97% cents a year ago. The st price was paid for medium ear corn the highest for No. 2 white. Buik of shelled corn graded No, 6 and No. 4 and for \$1.43 to \$1.58. Some poor ear corn Friday at \$1.05.

Receipts of oats at three markets dropped to less than half the average of the last few weeks. Three principal markets had only 476 cars, compared with 1,062 cars the week before and 1,040 a year ago. Scant shipping facilities. The country reports liberal offerings. Demand for carlots of eats was only moderate, as shippers could not obtain cars when needed, and prices declined ½ to 1½ cents.

bit obtain cars when needed, and prices jectined ½ to 1½ cents. General wheat conditions are described as rowing more acute, while export demand indentify the second s

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It is a general law of feeding that a fow will require a certain amount of food for growing and maintaining the carcass. And the amount is in pro-portion to the size of the aming. BY A. B. HUNTER. portion to the size of the animal.

WHAT BREEDERS ARE DOING

FRANK HOWARD. Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 128 Grace St., Wichitz, Kan. John W. Johnson, N. Kansas, S. Neb. and Ia. 520 Lincoln St., Topeka, Kan. Jesse R. Johnson, Nebraska and Iowa, 1927 South 16th St., Lincoln, Neb. C. H. Hay, S. E. Kan. and Missouri, 4204 Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be pub-lished free when such sales are to be adver-tised in the Farmers Mail and Breeze. Other-wise they will be charged for at regular rates.

Combination Sales. Feb. 25 to Mar. 2-F. S. Kirk, Mgr., Wichita, Kan.

Jacks, Jennets and Stallions. Jan. Feb. 6 Kan 30-Thompson Bros., Marysville, Kan. 6-L. J. Cox and others, Concordia,

Feb. 18-H. C. Lookabaugh, Watonga, Okla. Mar. 26-H. T. Hineman, Dighton, Kan.

Percheron Horses. Jan. 30-Spohr & Spohr, Latham, Kan. Sale at Wichita, Kan. Feb. 12-Bishop Bros., Towanda, Kan. Feb. 26-Geo. S. Hamaker, Pawnee City, Neb.

Draft Horses.

Draft Horses. Feb. 28 and Mar. 1—Nebraska Horse Breed-ers' Assn., sale, Grand Island, Neb. C. F. Way, Lincoln, Neb., Manager. March 8-9—W. T. Judy & Sons, Kearney, Neb.

Aberdeen Angus Cattle. Apr. 5-Wm. Palmer, Liberty, Neb.

Helstein Cattle.

Feb. 21—Lee Bros. & Cook, Harveyville, Kan. Feb. 27—W. O. Morrill, Summerfield, Kan. Mar. 20—E. J. Dixon and Chas. A. Smedley, Agra. Kan. Mar. 26—Kansas State Holstein Breeders' sale at Topeka Fair Grounds, W. H. Mott, Sec., Herington, Kan. Polled Durham Cattle

Polled Durham Cattle.

March 8-9-W. T. Judy & Sons, Kearney, Neb. Mar. 28-29-Combination sale, So. Omaha, Neb. H. C. McKelvie, Mgr., Lincoln, Neb. April 10-T. M. Willson, Lebanon, Kan.

Shorthorn Cattle.

Shorthorn, Cattle. Jan. 29-H. C. Lookabaugh, Watonga, Okla. Shorthorn Beginners' Department. March 5-K. F. Dietsch, Orleans, Neb. March 7-Frank Uhlig, Falls City, Neb. Mar. 26-27-Combination sale, So. Omaha, Neb. H. C. McKelvie, Mgr., Lincoln, Neb. March 27-J. R. Whisler, Watonga, Okla. April 2-Blank Bros. & Kleen, Franklin, Neb. Sale at Hastings, Neb. Apr. 3-4-Highline Shorthorn Breeders' As-sociation, Farnam, Neb. E. W. Crossgrove, Mgr. AprI. 6-Thomas, Anderson, Okland, Status, Shorthorn, Shorthorn, Status, Shorthorn, Status, Status,

Mgr. April 6—Thomas Andrews, Cambridge, Neb., and A. C. Shellenberger, Alma, Neb. Sale

and A. C. Sh at Cambridge Hereford Cattle.

Feb. 11—Paul Williams, Marion, Kan. Feb. 12—Kansas Breeders' Combination sale; W. A. Cochel, Mgr. Sale at Manhattan, Kan.

S. W. Kansas and Oklahoma

The good dairy cow that has been handled properly has perfect digestion and she turns the larger part of her food into milk. Spohr & Spohr, Latham, Kan., will dis-perse their entire herd of Percherons, 12 stallions and 23 mares and fillies, at Wich-ita, Kan., Wednesday, January 30. This sale will include all their herd mares and their herd and show stallion, Morris 105385. Five of their stallions are ready for service,

Jacks and Jennets at Auction. H. C. Lookabaugh. Watonga, Okla., sells at auction Wednesday, February 13, 80 jacks and jennets. Twelve jacks all of serviceable age and practically all young jacks broke to service. The sire of five of these great young jacks is Caddo, a mam-moth jack that has three imported crosses and is one of the best jacks to be found anywhere. He also sells in this sale. Fif-teen of these jennets are of breeding age and most all in foal to this great jack Caddo. Since Mr. Lookabaugh is not gen-erally known as a jack bereder, this large number of jacks and jennets are likely to sell below their value. There will un-doubtedly be bargains. Catalogs are ready to mail, send your name today. Mention Farcheren and Shorthern Sale.

Percheron and Shorthorn Sale.

Percheron and Shorthorn Sale. W. S. Boles & Sons, Enid, Okia, will hold fur regular annual Percheron sale at Enid, thur sale, February 14, supplemented with a Shorthorn sale in the forenoon. The recherons will consist of 40 head, 25 marss and filles and 15 stallions. This will be to Carnard, by Carnot, the \$40,000 grand to Carnard, by Carnot, the \$40,000 grand the marse are showing heavy in for a granddaughter of this great champion. The marse are splendid assortment from which to select. As a top liner in this work of carnot, will be offered. He is a for heavy in the promising size Carnard, by the herd stallion that is sure to make Perch-top the fores and beliess with calf at foresoon, 15 cows and beliess with calf at foresoon, 15 cows and beliess with calf at fore reace in each to the set is monthe belies and a remark to buils set is smonthe to reace in each to buils set is smonthe for a far and arrange to attend both sales. And ready for service. Write today for sales and a remark to attend both sales.

N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

Olson Brothers, Assarla, Han., report a splendid sale on boars last fall and up to recently when they were all sold out. They have about 40 nice spring gilts bred for spring farrow and 50 fall pigs to sell.—Ad-vertisement.

C. W. Taylor, Abilene, Kan., is advertising Shorthorn bulls in the Farmers Mail and Breeze at the present time. He has to select from about 15 youngsters, pure Scotch and Scotch topped, that are from 8 to 10 months old. If you want to buy a Short-horn bull get in touch with Mr. Taylor at once. He will appreciate your telling him where you saw his advertisement when you write.—Advertisement.

Look up the J. W. Meyer, Nortonville, Kan., Holstein sale advertisement in this issue of the Farmers Mall and Breeze. Ben Schneider, the well known Holstein breeder of that place, is managing this sale, and he will be glad to give you any information you want about this big sale of 100 Holstein cows and heifers. Look up the advertisement in this issue and write him today. He will be glad to have you tell him where you saw the advertisement.—Advertisement.

Last Call Thompson Brothers' Sale.

Last Call Thompson Brothers' Sale. This is the last call for Thompson Broth-ers' jack and stallion dispersion sale at Marysville, Kan., January 30, which is next Wednesday. A lot of very valuable breeding stock will be sold in this sale, stallions and jacks which were big money makers for this firm last year and will go on this year and make money for their new owners. This is strictly a high class lot of jacks and stallions and should not be confounded with sales which are made simply to unload un-desirable stuff. Thompson Brothers are compelled to close out their breeding estab-lishment because of other business. You had better be there if you possibly can.— Advertisement.

Breeders' Hereford Sale, February 12.

Breeders' Hereford Sale, February 12. Tuesday, February 12, is the date of the third annual Breeders' Hereford Sale, which is to be held at the Agricultural college at Manhattan, Kan. This offering will include 41 bulls and 37 females which have been consigned to this sale by some of the best Hereford breeders of the state. Fractically all of the bulls are old enough for service and among the females offered are cows with calves at side, bred helfers and helfers that are of breeding age. While these Here-fords are not highly fitted, they are in good condition and ready to go ahead and make money for the people who buy them. For catalog of this sale address Prof. W. H. Gochel, Manhattan, Kan. Please mention Farmers Mall and Breeze when writing for catalog.—Advertisement.

Good Sale in Spite of Storm.

Good Sale in Spite of Storm. J. A. Engle's sale of high grade Hol-stein cows and helfers at Talmage, Kan., last Thursday was a pronounced success. Early the morning of the sale with the country roads in that locality blocked with snow it looked like a postponed sale. But later in the day a small crowd had ar-rived and Mr. Engle felt that it was a matter of simple justice to those who had braved the snow drifts to be present that the statt the sale. The result was remarkbraved the snow drifts to be present that he start the sale. The result was remark-able. Thirty-five cows and helfers sold for \$5,167.50 or an average of \$147.65. The offering was good and presented in good form. The Engle stamp on Holsteins means something. J. A. Engle is not quitting the Holstein dairy business and this sale was a draft sale of surplus stock.—Adver-tisement.

Walker's "Blue Valley" Sow Sale.

Walker's "Blue Valley" Sow Sale. Kansas Poland China breeders are invited to look over the Thos. F. Walker advertise-ment of his coming Poland China bred sow sale. Thos. F. Walker, Alexandria, Neb., is well known to Kansas Poland China people because of the great individuals he has sent to Kansas. In the past his sales have been held at Fairbury, but two years ago he built upon 'his farm one of the most modern and expensive sale barns in Nebraska. Kansas breeders will be interested in the 19 daugh-ters of old Blue Valley and this can well be called the "last Blue Valley sow sale." Breeders will be more than pleased with the 61 great individuals that will be driven thru-

the mares are practically all showing safe to him, a few are bred to Imp. Resistant. If you want Percherons do not miss this sale. Write today for catalog. Address Spohr & Spohr, Latham, Kan.—Advertise-ment. Jacks and Jennets at Auction. H. C. Lookabaugh, Watonga, Okla., selis at auction Wednesday, February 13, 30 serviceable age and practically all young jacks broke to service. The sire of fives these great young jacks is Caddo, a mam-meth lock that has three immorted crosses

Attend Moser's Sale at Sabetha.

Attend Moser's Sale at Sabetha. F. J. Moser's annual Duroc Jersey bred was ale is advertised in this issue of the farmers Mail and Breeze. Mr. Moser gets his mall at Goff. Kan, but his sales are the better railroad and hotel facilities. The better sale will be held as usual in the big sale any which is always roomy and comfort-able. The Moser offering this winter is simply great. The breeding is as up to date offering just that much more desirable. Mr. Moser prides himself on his herd of Duroc perseys and his square deal methods. He is won't be a better opportunity to buy good ones than the Moser sale at Sabetha, Kan, but was and such bids will be looked atter bateha, and such bids will be looked atter. Bemember Hartmar's Sale February L

Benember Hartman's Sale February 1.
J. J. Hartman's Elmo Valley Poland fina bred sow sale to be held February 1 is advertised in this issue of the Farmers and the farm near Elmo (Dickinson county) and free auto service will be furnished from Elmo on the Missouri Pacific, Ablere from Union Pacific, Rock Island and Santa Fe. The catalogs are adverted by the farmers should attend the you write at once for the catalogs are they to mail now. You have plenty of the farmers as well as farmers should attend the you write at once for the catalogs are they to mail now. You have plenty of the farmers as well as farmers should attend they won't be disappointed either. It is one of the real quality and size ales the made in Kansas this winter. Look you have plent of the farmers of J. J. Hartman, Elmo, Kan will appreciate your telling him where you will a divertisement. Write today.-Advention you ask for a catalog where we have advertisement. Write today.-Adventioned the same and the write today.-Adventioned the same and the write today. Remember Hartman's Sale Febr

Reed and Jukes Sale, February 14. Walter Reed, Salina, Kan., and B. T. breeders of Spotted Poland Chinas and breeders of Spotted Poland Chinas and breeders of Spotted Poland Chinas and the spotted spotted street. South Fifth the public auction. They have made no attempt to public auction. They have made no attempt breeders have bought from the good hereds of the country and both are reliable men budyiser families largely and of other spot families of spotted Poland Chinas, freques to either Walter Reed. Salina, Kan, or B. T. Jukes, Bavaria, Kan. Breeders for distance should go right to the bars the morning of the sale and inquire for the breeders making the sale. The breeders making the sale. The spotter should and Breese. Write today for the breeding and all other information as us the breeding son Sale February 2. Reed and Jukes Sale, February 14.

Clemetson's Annual Sow Sale February 1. 1. A fight of the heid at Holton, Kan, February 7, is advertised in this issue of the farmers Mail and Breeze. Forty head of minuned, tried sows, fail yearling and point China breeder or farmer in the vorth of the sortier or farmer in the vorth of the sortier or farmer in the vorth of the 1917 crops of pigs raised by which the spring gilts are the absolute tops of the 1917 crops of pigs raised by the breeder of Poland Chinas that has boughd the breeder of the seale the black the seale the black the breeder black the breeder black the breeder has the good boughd the breeder black the breeder has the good boughd the breeder black the breeder black the bla Clemetson's Annual Sow Sale February 7.

Bad Weather for Humes's Sale.

Had Weather for Humes's Sale. The state of the second scale of th

Paul Williams's Hereford Sale

Paul Williams's Hereford Sale. Paul Williams, Marion, Kan., (Marion county) announces in this issue of the Farmers Mall and Breeze his first annual sale of Hereford cattle at Marion, Monday, February 11. This is the day before the combination sale of Herefords at the Agri-cultural college, Manhattan, Kan. Mr. WH-liams is selling a draft of 50 cows and heifers and 25 young buils that are as sure to prove money makers for their purchasers

POLAND CHINA HOGS.

40

Immune Big Type Polands fall pige by prize also bred sows. H. C. Morrison, Cieora, Oklahoma For Sale: Four Reg. Spotted Poland

Tried Sows N. T. McNary, Burlington, Kan. **Big Type Poland Boars**

Meady for service, grown and priced right, satisfac-ion guaranteed, pedigree furnished. For prices and escription, write W. H. HILLS, Milo, Kansas. 20 POLAND CHINA BOARS, 20

Weighing from 125 to 300 lbs. Write today for price and description. A. L. ALBRIGHT, WATERVILLE, KAN.

Money-Making Polands Am offering an extra good bunch of spring boars that are bred right and grown for breeding purposes. J. M. BARNETT, DENISON, KAN.

Spotted Poland China Gilts 30 fall and spring gilts bred and open. A few good tried sows. Also some good spring boars. All well spotted. Best breeding condition. Write at once. B. H. MCCUNE, (Clay Ce.) LONGFORD, KANSAS.

Old Original Spotted Polands Stock of all ages; also bred glits and tried sows ready to ship. Priced right. Write your wants to the Cedar Row Stock Farm, A. S. Alexander, Prop., Burlington, Kan.

Fairview Poland Chinas 40 March boars, heavy boned fellows, ready for ser-vice. Also choice gilts. All pedigreed and priced to sell quickly. P. L. Ware & Son, Paola, Kan.

Townview Polands Herd headed by the great young boar, King Wonders Giant 77326, I can ahlp spring pigs, either sex, or young herds not related. Boars ready for service. Bred glits. Prices and Hogs are right. Chas. E. Greene, Peabody, Kansas

Mar. Boars 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.

ERHARTS' BIG POLANDS A few September and October boars and choice spring pigs either sex out of some of our best herd sows and sired by the grand champion Big Hadley Jr. and Columbus Defender, first in class at To-peka State Fair and second in futurity class at Nebraska State Fair. Priced right, quality considered. A. J. ERHART & SONS, Ness Clty, Kan.

BIG WONDER 281929 The outstanding spring yearling son of the noted Big Bob Wonder now at the head of my herd. This young sire was first in junior yearling class at To-peks; second at the National Swine Show in competi-tion against the world. I will sell fifty sows and gilts Saturday, February 23, 1918, and a number of the best sows will be bred to Big Wonder. Send name early for catalog. I have a few choice spring boars priced to sell.

V. O. JOHNSON. AULNE, KANSAS



Wonder Belle By Big Bob Wonder, by Big by A Wonder. Farrowed Oct. 5, 1915, Pigs in It-ter, 10. Bred Oct. 25, 1917, A grand daughter of A Wonder and sired by Big Bob Wonder. One of those large motherly sows just in her prime.

Big Chester White Event.

Big Chester White Event. The event important to Chester White West is the big combination sale of Chester White bred sows to be held in the Coliseum, Leavenworth, Kan., Saturday, February 2. The sale consists of 55 head drawn from the worth, Kan., and Henry Murr, Tonganoxie, Kan. The sale is advertised elsewhere in this issue of the Farmers Mail and Breeze. The Leavenworth Chamber of Commerce recognizes the importance of these two priday evening, which is the evening before the sale, they are giving a banquet which is free to all lovers of popular Chester White hogs. Speaking and other forms of enter-tainment will be furnished. The Kansas Chester White Breeders' association will met on this occasion and it is certainly a big time for Chester White atfairs are invited. It is free. Look up the advertises ment in this issue. For a catalog address Arthur Mosse, Leavenworth, Kan. Mr. Mosse is the active manager of the sale the where you saw his advertisement. White breed you saw his advertisement.

Nebraska and lowa

BY JESSE R. JOHNSON.

BY JESSE R. JOHNSON. Wednesday, February 6, is the date of O. E. Harmon's annual Duroc Jersey bred sow sale. The sale as usual will be held on the farm near Fairmont, Neb., and the offering will be first class, as Mr. Harmon's offer-ings always are. Of the 40 head selling, 25 or so are tried sows and fail yearlings, and the remainder big spring gilts. A big per cent of the offering was sired by Mr. Harmon's former herd boar, King's Col. Again, one of the very best breeding sons of Putman's gree. boar, King's Col. A big lot of them will be bred to the principal herd boar, Joe Orion Jr., a 2-year-old son of the noted eastern boar Joe Orion 2d, and of proven worth as a sire. His dam was a daughter of Cherry King. Mr. Harmon has a right to expect great results from the King's Col. Again gilts mated to this good sire. The remainder of the offering is the get of Gano's Masterpicce, King Col. Again, by King The Col., and Defender Model by Wetzlaff's Defender, he by Old Defender. Write at once for catalog and mention this paper. Send all bids to J. W. Johnson in Mr. Harmon's care at Fairmont, Neb.-Ad-vertisement. vertisement.

Annual Poland China Sow Sale. February 8 is the date of Smith Brothers' annual sale of registered Poland China bred seach operate a big farm and devôte all of their energies to raising good Poland Chinas. They have been doing this important work all their lives which accounts for the good offerings they are always able to put up at their annual sales. They put in the offerings they are always able to put up at their annual sales. They put in the sized of a sales. They put in the properties of fall yearlings that were sized by Nebraska Wonder, the boar that state Fair, a few years ago. Miss Harper, perhaps the best producing sow ever owned by the Smiths, also goes in; also some aughters of Smith's Big Hadley and Jumbo Jr. But the greater part of the offering is entirely new. Much of it being if y the herd boars Big King Price and orphan's Price, young boars that are prov-ing themselves important factors in the spot Swonder, grand champion of Nebraska the past season. Many will be bred to the obsort Mc's Equal, a son of Mc's Samp-on, the International grand champion will be cataloged. The offering is a good of me and represents about all popular blood ine and rep Annual Poland China Sow Sale,

by A wonder and sired by Big Bob Wonder. One of the wonder and sired by Big Bob Wonder. One of the states are determined to be a sound of the season. He was the season of the season. He was be and the best boar ever owned by Mr. Also 10 extra heav boned Sept. pigs. 5 boars of the season. He comes from one of the best boar ever owned by Mr. Breb. I. Also 10 to 100 to 600 pounds. Side each till be bred to a young boar that provide best bereder of the season. He was sired by Chief Minne and free boar of the best boar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best obar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best boar ever owned by Mr. Beat and the best beat beat ever owned by Mr. Beat and the beat the beat beat beat the Lonergan Sells Polands at Florence, Neb.



Lookabaugh's **Fourth Letter**

Friends-

ar Friends— A dozen years ago after I learned e necessity of keeping books and king an invoice the first of each ar. I was much surprised one day the end of the invoice when I had ured up the different accounts, at is, the account with the hogs, with the cattle, one with the res and mules, and one with the main to learn the farming had de nothing over and above the pense. I would not believe it and igured it over again for I really since I had put most of my time farming it really should have the plain to see it had not. But it yint to see it had not. But is I studied it over. I had put sixteen hours a day, had used of horses, had been economical in ying machinery, had been very timate in saving my crop from e destruction of the weather, had losses by fire, had fertilized my had not made a profit I could not

had not made a profit I could not if gured up the cattle account and y had made a lot of money over and the expenses plus the care and feed. charged them even with the stalk ids. But I had not put much time on m, they had run in the pasture dur-the summer while I had worked on farm, and in the winter they had in the stalk fields while I hauled off wheat, oats, rye, kaff and corn. At it time I did not have time enough water them but once a day. I figured the hog account and found they had due next to as much profit as the gene I had far larger expense on the gene I had the charge-against them field. But I was well satisfied with at they had done anyway. Also the re and mule account had made money, it was my habit of buying three year imules, breaking them out and at five we sold selling them at a profit, re-ving their work clear.

numes, preaking them out and at five so old selling them at a profit, re-ing their work clear. If this was a surprise to me and I de-d the next year to pay a little closer ntion to my farming operations and if I could not make more, but neces-ly I feit I should favor the cattle a eas they had made me the most by the year before. After I had tried harder to make morey on the farm ide me feel a little sad, but I knew as before, only even more in favor of cattle, hogs, and horses. This con-ed me that farming without live-it would be an uphill business and the reason I drifted toward cattle was use I found that the expense, care freding of the cattle was less com-d with the profits, than in any other of livestock on the farm. I decided every farmer needed a certain vari-of livestock, that each kind of stock bred to fill their separate and dis-purpose on the farm which the twe easing was really worth more a we had the machine, that is, the grain crops were worth. Besides he use of the cow as well as the other fock we could easily hold up the fer-for ke soil. I decided it cost too ho to haul this grain to market and i needed was livestock to feed the a to and drive it to market and at er profit.

H. C. Lookabaugh Watonga, Oklahoma

26 JAN ISINTHE FARMERS MAIL AND BREEZE

mention this oper. Send bids by letter or wire to Jesse ohnson in care of Mr. Loner-tre at Florence. - Advertisement. wire to J Naiman Sells Poland Sows.

ABRICH

Naman Sells Poland Sows. Formary 9 is the date of John L. Nai-man's big Poland China bred sow sale. The sale will be held in Smith's sale pavilion in Fairbury, Neb. Of the 50 head selling, 40 hig kind and maintains the quality along with the size. He will have this offering in good breeding condition but not loaded with fat. Most of the offering was sired by sons and grandsons of such boars as A Wonder: Big Orange; Blue Valley and Big Timm. They have good high backs and are very promising from the standpoint of brood sows. They are bred to the herd boars, Long Shot and Long Hadley. Long Shot was sired by Big Bone's Son, one of the best breeding boars ever owned in Ne-han 3d, a daughter of the noted sow Anna Price 11th, the sow that produced the world's champion boar, Superba. Long Had-ley was sired by Expansion Long and his dam was by Hutch Hadley. Z son of the need from all points in Nebraska and Kansas and free entertainment will be pro-vided for all breeders and others attending at Alexandria, Neb. Interested parties un-able to be present sale day should send bids to J. W. or Jesse Johnson, in care of Mary-Etta hotel, Fairbury, Neb.-Advertisement.

S. E. Kan. and Missouri BY C. H. HAY.

Clarence Dean of Weston, Mo., will hold his annual bred sow sale in Dearborn, Mo., February 28. He will have a splendid offer-ing. The gilts are well grown and the sows are dandles. The spring gilts are by Gerst-dale Jones, Big Bone Model, Dean's Big Timm and Smooth Black Bone. There will be 10 fine fall gilts by Smooth Black Bone and Big Bone Model. The tried sows are by Mastodon Price, Big Jumbo 2d, Long Big Bone, Big Bone Model and Smooth Black Bone. Mr. Dean owns one of the best sons of the Nebraska champion, Big Timm, and all the tried sows are bred to him. The gilts (excepting the Gerstdale Jones gilts) are bred to Dean's Big Jones by Gerstdale Jones. Watch the next issue of this paper' for display ads of this sale.—Advertisement.

Damage from the Rats

BY DR. R. K. NABOURS

Kansas has a rat population of 2 mil-lion, which is supported at the expense for the human population. Every fully grown rat can eat from 45 to 50 pounds of grain a year. Adding in the destruc-tion caused by rats to other property than food it is a conservative estimate that each rat will require on the aver-age \$2 to \$5 a year for his "support." For the whole state, the loss due to rats is not less than 4 million dollars annually.

Most of the damage is due to the food which the rats consume, or which by their presence they render unfit for use. their presence they render unit for use. But rats are responsible for other forms of destruction. They gnaw the insula-tion of electric wires and have in this manner caused numerous fires. They carry matches to their nests between the walls of buildings, and here also start fires. They injure furniture, car-nets electhing hooks latters and valupets, clothing, books, letters and valu-able papers. They gnaw lead pipes, ivory, shoes, gloves, leather and rubber goods. In stores they often do an enormous damage. In poultry yards or in fish hatch-eries they are an intolerable nuisance. Beyond all that, the rat is now recog-

nized as a disease carrier. In addition to contaminating man's food, he is the carrier of the germs of Bubonic plague. The plague is carried from sick rodents to well men by rodent fleas. Trichinosis among swine, a dreadful disease often fatal to human life, is disseminated mainly in the rat. Country slaughter houses, where rats are abundant, are among the chief sources of trichinous pork. Owing to the filthy situations in which rats are often found and to their habits of wandering widely, they un-doubtedly often carry infectious diseases from one part of a city to another thru coming into contact with food receptacles.

Civic co-operation is necessary to the complete control of rats. The individual buildings or farms usually may be freed from them at a small cost. All build-ings, drains, food and garbage recepta-cles should be made rat-proof. Garbage or rubbish heaps in which they feed and breed should be burned. Ordinances re-tating to rat-proof building construction and to the destruction of rats should be enforced strictly. Inside of rat-proof buildings, all food and water should be kept out of the reach of the animals. Then by the use of traps and poisons, those inside may be destroyed. Eternal virilance is necessary, and it should be from them at a small cost. All buildvigilance is necessary, and it should be considered a disgrace and a crime to

harbor such a pest. Further details will be supplied by the zoology department, Kansas State Agricultural College, Manhattan, or the United States Biological Survey, Washington, D. C.

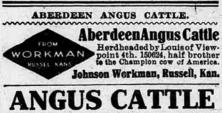
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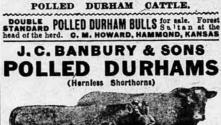
500 HAMPSHIRES BRED Sows and gills bred to Grand Champion boars nicely belled, large litters, healthiest and best hustlers in the world. Will make more dollars from pasture than any hog grown. Write SCUDDER BROS., DONIPHAN, NEBRASKA. **40 HAMPSHIRE BRED GILTS**

(Home of Kansas Top.) These gilts are bred and safe and will priced right. Also 50 September pigs bargain prices. Pedigree with each These OLSON BROS., ASSARIA KAN., (12 miles south Salina.)

JERSEY CATTLE. FOR SALE-LAD OF SUMNER HALL 1917. Grand-dam imported from Island. HORACE M. PIERCE, JUNCTION CITY, KANSAS.



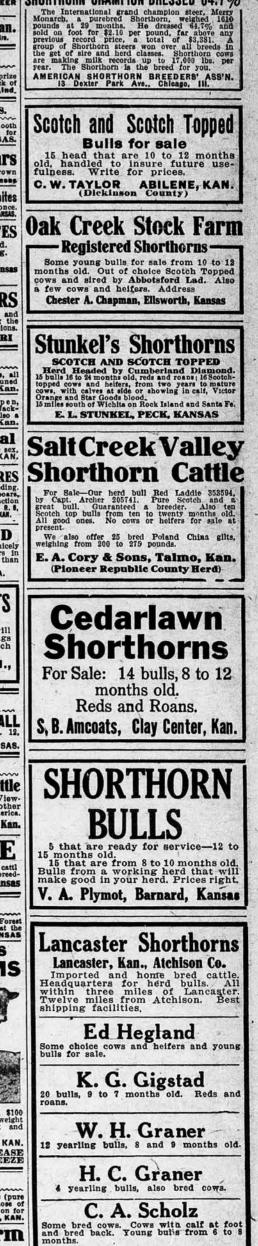
ing. Sutton & Wells, Russell, Russell Co., Kansas



150 head in herd. 25 bulls. Reds and Roans. \$100 to \$300, halter broke. Roan Orange. 383944, weight 2500 in flesh. Sultan's Pride, 429017, first and Junior champion in three states, in service. J. C. BANBURY & SONS, Phone 1602, PRATT, KAN.

WHEN WRITING ADVERTISERS PLEASE MENTION FARMERS MAIL AND BREEZE SHORTHORN CATTLE

PURE BRED DAIRY SHORTHORNS Double Marys (pure Sharon families. A nice lot of young bulls coming on for fall and winter trade. R. M. ANDERSON, BELDIT, KAN. Melvora Stock Farm Now Offers For Sale Five Shorthorn bulls, six to ten months old. Reds and roans. Priced to move them. M. L. GOULD, JAMESTOWN, KANSAS



Address these Breeders at Lancaster, Kan

41

SHORTHORN CATTLE.



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THE FARMERS MAIL AND BREEZE

Duroc-Jerseys Bred Sows

A sale of Duroc-Jersey bred sows and gilts combining great scale and quality. Brothers of the 30 March gilts in this sale made a record Kansas sale last November.

Plan to attend this sale at Sabetha, Kan., Thursday, Feb. 7



The Moser type of Duroc-Jersey brood sow. Plenty like this in this sale.

The offering numbers 40 head and all but a few choice tried sows are big, smooth spring gilts. 30 by High View Chief's Col. and his worthy assistant, Defender's Top Col. Four sired by Fancy Pal. Four by Crimson Ruler. The 30 spring gilts are safe to the service of Rajah's Disturber 232349. Look it up. Others to Illustrator Orion. Catalogs ready to mail. Address

F. J. Moser, Goff, Kansas

Satisfaction guaranteed on bids sent to J. W. Johnson in my care. Jas. T. Culloch. Auctioneer; J. W. Johnson, Fieldman.

Smith Bros., Annual Sale of **Big Poland China Bred Sows** At farm north of

Superior, Neb., Friday, Feb. 8th

60 Head All immune and a little better 60 than we have before sold 4 Tried Sows -- 10 Fall Yearlings - 45 Spring Gilts



Sired by Big King Price Orphans Price Amazon Ben Jumbo Jr. Giant Wonder Jumbo Bob Amazon Ben Jumbo Jr. Giant Wonder Jumbo Bob Nebraska WonderSpots Wonder

Bred to

Mcs Equal Hadley Wonder Big King Price Orphans Price Amazon Ben

This offering is composed of the tops from our two big herds. the sows and gilts cataloged have lots of size and quality and have been fed and handled in a way to insure their future usefulness as breeders. We invite all of our old customers and sure them the same fair treatment they have always had. Plenty of new breeding. Those that have never attended our sales have a cordial invitation and we refer them to those that have bought from us in past years. Write for catalog and mention this paper.

We will also sell a few extra good Shorthorn bull calves, 10 to 14 months old, dark red color.

Free transportation to and from farm. Stop at old Goodhue hotel as our guests. Send bids to Jesse Johnson in our care.



Boles & Sons Sell Percherons—Shorthorns

At Enid, Oklahoma Thursday, February 14, 1918

1:30 P. M. **40 Percherons Sell**

25 Mares and 15 Stallions. Most of these mares are showing heavy to CARNARD, one of the greatest sons of the noted \$40,000 grand champion, Carnot. This great son of Carnot also sells in this sale as will also Carlotte and Rose, daughter and granddaughter of Carnot.

10 A. M. **35 Shorthorns Sell**

20 Bulls 8 to 18 months old. 15 cows and heifers either with calf at foot or safe in calf to our herd bull, Butterfly Master. These Shorthorns include both Scotch and Scotch topped and are a good useful kind just in nice breeding condition.

The Stallions

are most all blacks, a few dark greys acclimated, serviceable age and money makers.

Free conveyance from Street Car barn, Enid, to farm. For catalog address

W.S.Boles & Sons, Enid,Oklahoma Auctioneer-J. D. Snyder. Fieldman-A. B. Hunter.

Note-Jesse Perry, Goltry, Okla., sells Percherons and Shorthorns Feb. 15. Arrange to attend both sales.

Combination Sale Spotted Poland Chinas

60 The big bone, big litter, easy 60 feeding hog of your fathers

Sale in Johnson's barn, South 5th Street, Salina, Kan., Thursday, Feb. 14



This sale consists of tried sows, spring gilts, a few spring boars, a few choice fall pigs and two herd boars. The nice string of tried sows are all young and in their prime. The spring gilts are bred for spring farrow as are the sows. Over 60 head go in the sale. The catalog tells the story. Write for it today. Address either

Walter Reed, Salina, Kansas, or B. T. Jukes, Bavaria, Kansas Auctioneers: L. S. Ruggels & Son. J. W. Johnson, Fieldman. THE FARMERS MAIL AND BREEZE

January 26, 1918.



THE FARMERS MAIL AND BREEZE

45

25-Percheron Stallions Dispersed-25 Bishop Bros. Entire Stud at Auction, at Towanda, Kansas Tuesday, February 12, 1918, at One O'Clock, P. M.

Never was a Cleaner, Sounder, Better Lot of Young Stallions Sold at Auction

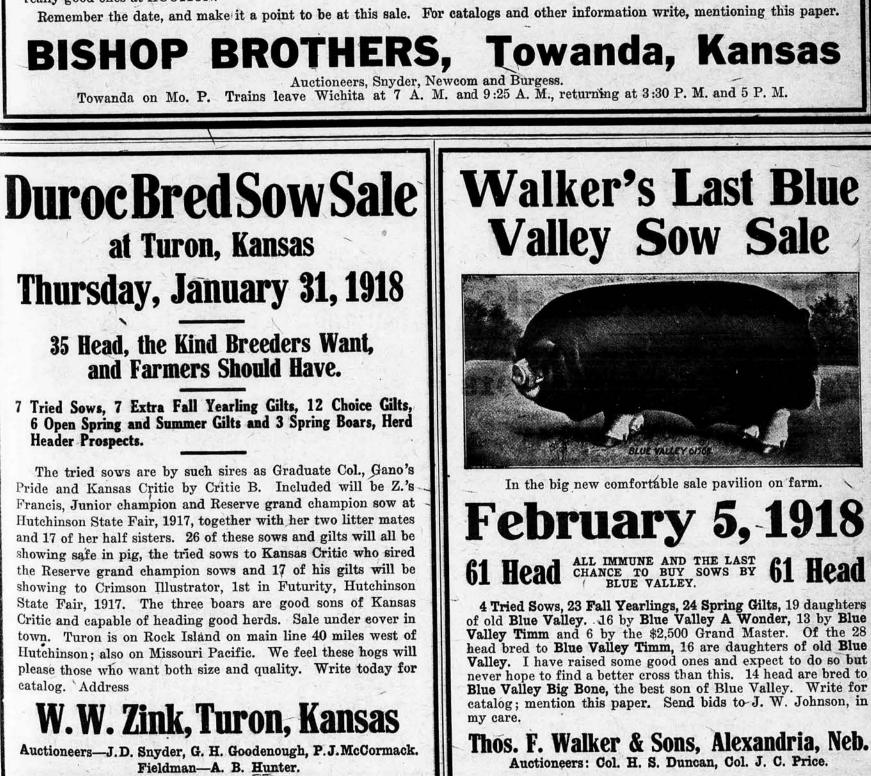
23 Coming Three Year Olds, 18 Will Weigh 1800 Lbs. Each, with Breeding the Best to be Found.

They were bought, grown, and developed, NOT FOR AUCTION SALES, BUT FOR PRIVATE SALES AT OUR BARNS, where each animal gets the very CLOS-EST inspection of the discriminating buyers.

Now, Mr. Stallion Buyer, if you want a really GOOD one, this is your opportunity and should you miss one of your liking, there are others, as they are so uniform, that what might be said of one may TRULY be said of all, with TWO exceptions. And as this is an exclusive STALLION sale, there certainly will be some bargains to the buyers.

And we would impress you with this fact, that we are not dispersing this offering because the business has not, and is not yet profitable to us, for on the contrary, it has, and we can only see a great FUTURE for the good BIG DRAFTER, and we

it has, and we can only see a great FUTURE for the good BIG DRAFTER, and we ourselves will continue the business when located on the sixteen hundred acre farm we recently bought and must take possession of March 1st. Our oil business and other investments which demand our close attention is the sole reason for selling these really good ones at AUCTION.



THE FARMERS MAIL AND BREEZE

January 26, 1918.



46

Bred Sow Sale Chester Whites KANSAS HERD

EDGEWOOD HERD Arthur Mosse, Leavenworth, Kan. Henry Murr, Tonganoxie, Kan.

An IMMUNE offering of 60 bred sows and gilts drawn from these two splendid herds. **Heated Colosseum**

Leavenworth, Kan., Sat., Feb. 2nd

55 bred sows and gilts, five boars, including Don Won-der by Izzy O. K. Wonder. Sows bred to such boars as Veto, four times grand Champion; Don Wonder, first and reserve champion; Don Wildwood, A Wildwood Prince boar; Don International by International Boy; Don Ben 2nd, Champion Kansas State Fair 1912 and 1917. Corrector. A Show Me boar and Golden Crown of St. Elmo breeding. The dams are great individuals and of prominent breeding. Free entertainment for breeders at the National Hotel. Catalogs ready to mail. They like to know where you saw their advertisement. Address,

Arthur Mosse, Sale Mgr., Leavenworth, Kan. or Henry Murr, Tonganoxie, Kan.

All lovers of Chester Whites are invited to Chester White banquet in Leavenworth, Friday night before the sale given under the auspices of the Leavenworth Chamber of Commerce. Meeting of the Chester White Breeders association of Kansas.

Thos. Deem and Harry Strouse, Auctioneers. Send your Mail bids to J. W. Johnson, care Arthur Mosse, Mgr., Leaven-

Holstein Dispersio

100 head grown and developed on this farm. An opportunity to buy from a herd that has been developed on this farm and culled closely. All high grades except five pure-breds, two cows and three heifers, all to freshen by sale day. Bred to a registered bull.

Nortonville, Kansas, Wednesday, Feb. 13



45 cows and heifers that are giving a good flow of milk now or heavy springers. The money making kind. 25 heifers (not bred) that are coming yearlings that are as fine as silk. 25 heifer calves that are beauties. A registered herd bull three years old and a good one and a yearling bull. Ben Schneider, Nortonville, the well known Holstein breeder, is managing the sale. For information write him. Address



THE FARMERS MAIL AND BREEZE



Big Type, Big Bone, 1000 pound kind with quality. Everything immunized early in the season by an expert. Sale at the farm in comfortable quarters. Free auto service from Abilene, Elmo or Hope.

47

Elmo, Dickinson Co., Friday, Feb.

Mr. Hartman's offering on this date is without question one of the very best Poland China bred sow offerings to be made in Kansas this winter. His herd is strong in the blood lines of the Thos. F. Walker herd. He has always bought the best and is a careful, painstaking breeder.

The offering of 15 tried sows that are proven money makers for him and the kind that the best breeders in the country are looking for proves the statement that he is putting in many of his best herd sows. These sows are by Blue Valley, Blue Valley Jr., and Orange Valley by Blue Valley Orange. The 15 big spring gilts are by Elmo Valley and Orange Valley.

The entire offering is bred to Elmo Valley by Blue Valley Jr., Elmo Valley Giant by Kansas Giant he by Iowa King, Elmo Valley Timm by Blue Valley Timm.

20 head of summer boars and gilts will be sold. They are by Elmo Valley and Elmo Valley Giant. You are urgently invited to come to this sale and be the guest of Mr. Hartman on the above date.

Orders to buy in this sale may be sent to J. W. Johnson in care of J. J. Hartman, Elmo, Kan. Catalogs are ready to mail. Write for one today. Mr. Hartman will appreciate it if you will tell him where you saw his advertisement when you write. Address,

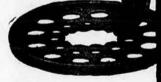


Top of Milk Tank is waist higheasy to fill

ONLY

Milk and cream spouts are open easy to clean

One-piece aluminum skimming device is very easy to clean



All shafts are vertical and run on "frictionless" pivot ball bearings making the New Butterfly the lightest running of all separators

More Than 125,000 **New Butterfly Cream Separators** are now in use

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NEW BUTTERFLY

ALBAUGH-DOVER CO.,

2177 Marshall Blvd., Chicago, Illinois Gentlemen:-Without obligation on my part, please mail me your free Catalog Folder and full particulars regarding your special easy payment offer on the New Butterfly Cream Separator.

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A Year to Pay

Think of it! You can now get any size of the New Butterfly Cream Separator you need direct from our factory for only \$2 down and on a plan whereby it will earn its own "We made \$73.61 worth of butter before we had the ma-chine and in the same length of time we made with the Butterfly Separator \$140.00 worth of butter from the same number of cows." THOS, S. KEMMOSKY. Point Aux Flue, Mich. cost and more before you pay. You won't feel the cost at all. Our low prices will surprise you. For example:



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buys the No. 2 Junior, a light running, easy clean-ing, close skimming, dur-able, guaranteed separator.

Skims 96 quarts per hour. You pay only \$2 down and balance on easy terms of **Only \$2 a Month**

You have no interest to pay. No extras. The prices we quote include everything. We also make five larger sizes of the

ew Butterfly up to our big 800 lb. capacity machine shown here

all sold at similar low prices and on our liberal terms of only \$2 down and more than a year to pay. Every machine guaranteed a lifetime against defects in materials and workmanship.

30 Days' rial

You can have 30 days' trial on your own farm and see for yourself how easily one of these splendid machines will earn its own cost and more before you pay. Try it alongside of any separator you wish. Keep it if pleased. If not you can return it at our eveness and we will refund

our expense and we will refund your \$2 deposit and pay the freight charges both ways.

Catalog Folder—FREE Why not get one of these big labor-saving, money-

making machines while you have the opportu-nity to do so on this liberal self-earning plan? Let us send you our big, new, illustrated cata-log folder showing all the machines we make and quoting lowest factory prices and easy payment terms. We will also mail you a book of letters from owners telling how the New But-terfly is helping them to make as high as \$100 a year extra profit from cows. Sending coupon does not obligate you in any way. Write today,



Twelve-Year-Old Child Runs It "We would not do without our Butterfly Sepa-rator or exchange it for all the machines we have seen. Our little girl, 12 years old, runs it like a clock!" MRS. P. E. RUDE, Ashland, Wis.

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Made \$61.39 More from Same Cows



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