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Let's Consider the Land Problems

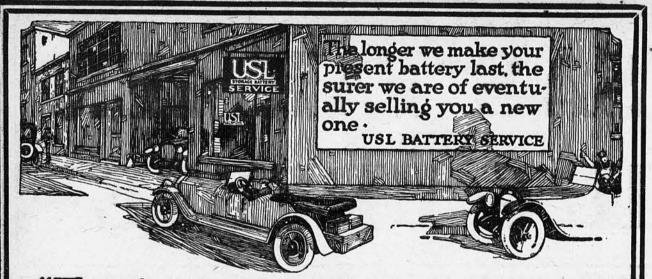
CLEAR thinking is needed in solving the land problems of this country. These are of the greatest fundamental importance. The most prosperous and satisfactory agriculture can be developed only on a basis of home owners, yet despite this axiom the proportion of farm tenants is increasing in the United States. The percentage in 1880 was 25.6 per cent; 1890, 28.4; 1900, 35.3 and 1910, 37. It is believed that the proportion shown by the census of this year will be between 45 and 50 per cent. Many sections already have a larger share, Sumner county has 55 per cent of tenants, and Lincoln township in Pratt county, which in 1880 had 13 per cent of tenants, now has more than 60 per cent. De Kalb county, Illinois, has 72 per cent.

Advanced thinking and legislation are required to change this tendency; we need an increasing proportion of owners. What will these changes be? That is for the people to decide, and some fundamental thinking on the part of all classes of society will tend to bring these about. In other nations the land question has been met by bloody revolution, but in America we are going to solve it by the orderly processes of law and development, in a fundamental manner, which will insure justice for all. Let's study these problems. It will be possible to give the industrious, efficient tenants a better chance to become owners.

Many solutions of the land problem are proposed. Kansas voters will have an opportunity to record their wishes at the next general election on three amendments to the Kansas constitution which have to do with the land problems. There has been much discussion on these amendments in some communities, and doubtless there will be much more. Certainly everyone should investigate carefully before making up his mind as to which way he will vote.

Gradually the idea is becoming plain that we are entering a new era in land problems as they relate to young men, for the days of free government land have passed. The idea now is to get the acreage available handled in the most efficient way, and this never can be obtained with tenants except perhaps in a few cases which are not representative. It takes the stimulation of ownership to make a man put forth his maximum efforts in production, and to work out methods which will conserve the soil fertility.

If there is a general demand from the people for advanced legislation affecting the soil it will be passed. Land ownership is fundamental in working out the happy social life which we all hope for in the New Day in agriculture which is just at hand. The destiny of the business of farming in Kansas is at stake in the way it is worked out. A real study of these problems will be of the greatest value in developing a policy that will insure justice for all of the people at all times.



"There's a sign that tells the truth, John!"

"HOW do I know? Well, you saw how guick my starter got us going back there? The battery supplied the speed of course. Engine stiff, too, so it needed a live battery to do the job.

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"But they wouldn't sell me a battery at all. Just took a few minutes to open up my old one, and showed me its plates were still too sound to justify the deal. Said they'd repair it and guarantee it for eight months.

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Seedbed for Sorghums

May 8

BY R. I. THROCKMORTON The frequent low yields and imma. ture crops of sorghums in Kansas is sufficient cause for serious thought concerning the preparation of land for these crops. The failure of sorghums to mature has caused many of the more thoughtful farmers to change their method of seedbed preparation, or to seed earlier strains. One of the princi-pal causes of late maturing and injury from drouth is late preparation of the seedbed whether it be plowing or list-ing. Late, shallow preparation causes shallow rooting which means a smaller feeding area for the plant and conse-quently a slower growth and greater susceptibility to drouth. One of the outstanding causes of low yields of sorghums is a poor stand,

Tillage in the Fall

In the central and western parts of In the central and western parts of the state, listing is recognized as being much better than plowing in prepara-tion for sorghums, but in the eastern part of the state, plowing and surface planting is preferable. Where listing is practiced the field should be shallow listed in the fall, leaving the furrows open thru the winter to catch all snow or rain. This system leaves the ground rough so that no blowing can occur and is the cheapest and best method of handling the soil until the frost is out depending on the season. If the spring is dry, it may be preferable to plant in the bottom of the furrows which were opened the previous fall. If the spring is not used in the spring is wet and weeds begin to grow before planting time, the lister cultivator should be used to destroy weeds and loosen the soil. Planting may be done, when the ground is sufficiently warm. by throwing out the bottom of the old furrows or by splitting the ridges. The latter method is preferable as it makes weed control easier. When the sor-ghum is to be planted by splitting the ridges, the fall listing should be some what deeper than when the sorghum is what deeper than when the sorghum is to be planted in the same furrow the following spring. The highest average yield will doubtless be obtained by fall listing, early spring cultivation, and splitting the ridges at planting time. This method has a decided advantage over listing at planting time without previous preparation in that it insures a higher moisture content of the sol a higher moisture content of the soil at planting and makes it possible to destroy many of the weeds before the crop is planted. In addition to these

facts, the rough condition produced by fall listing causes the soil to become warm earlier in the spring which is an important factor in sorghum production. At times it is not possible to fall of winter list in propagation for correlation winter list in preparation for sorghum. When this condition exists the field should be disked in the spring as early as possible and should have additional diskings frequently enough to destroy all weed growth. All weeds should be destroyed before the crop is planted. Altho this method cannot be expected to give results equal to fall listing, it is preferable to spring listing without previous preparation.

Surface Planting

Surface planting is preferable to listing in Eastern Kansas because of the greater possibility of obtaining a good stand and of earlier planting because of a warmer condition of the surface soil. Surface planted crops are also less subject to injury from heavy spring rains than are listed crops. Where surface planting is practiced the ground should be fall or winter plowed and remain in a rough condition until spring. This will enable the soil to catch and hold the snow and rain of winter and being in a rough condition, the surface soil will become dry quite early in the spring thus allowing early spring disk-ing and ample opportunity to kill woods before the weeds before the crop is planted. This practice of fall plowing and surface planting will do much to overcome late maturing of sorghum crops in Eastern

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KANSAS FARMER AND MAIL & BREEZE Athen Capper, Publisher No. 19 May 8, 1920

Vol. 58

A Profit From Sheep The Small Farm Flocks in Kansas are Producing Excellent Results as a Rule Where They are Given Intelligent Care

ROM AN investment of \$210 in 30 ewes C. M. Todd, of Shawnee county, sold in three years \$1,216.64 worth of lambs and wool from his little flock. In addition he saved 41 ewe lambs, adding them to his breeding flock and butchered a few for home

ne saved 41 ewe lambs, adding them to his breeding flock and butchered a few for home nse. This helped to reduce his meat bill. Mr. Todd bought these ewes in December, 1914, paying \$7 apiece for them. In less than six months he sold 30 lambs for \$219 and 262 pounds of wool for \$60.26. Eight ewe lambs valued at \$47.80 were kept to go into the breed-ing flock. The next year he sold 29 lambs for \$253.18 and 320 pounds of wool for \$99.20. Thirteen ewe lambs valued at \$104 were kept. The next year 32 lambs were sold for \$357. The wool clip of 380 pounds brought 60 cents a pound or \$228. Twenty lambs valued at \$200 were retained for the breeding flock. In the spring of 1918 31 ewes produced 47 lambs. Some of these lambs came in January, and by May were weighing 75 or 80 pounds. The foundation ewes were grade Shropshires, but Mr. Todd has been using Lincoln rams. H. W. McAfee, a Shawnee county farmer who

Mr. Todd has been using Lincoln rams. H. W. McAfee, a Shawnee county farmer who has had a small flock of sheep on his farm for several years, says that from the standpoint of movey invested, his sheep are his most profit-able farm enterprise. He got his start almost by accident. He attended a farm sale for a short time, and as he was leaving the auc-tioneer asked him if he would not leave a bid to start the 16 ewes to be sold. His bid of \$4.25 apiece was the only one made, so he found him-self in the sheep business without any premedi-iation. tation.

Prefers Small Flocks

Mr. McAfee does not let his flock get above 30 head. He insists that a flock of this size on a 160-acre farm costs practically nothing in feed. Alfalfa hay and bluegrass pasture late in the fall and early in the spring, with other farm wastes in the shape of weeds and grass of the farm cost of the pastures and coming up as after-growth in the pastures and coming up as after-growth in the pastures and cultivated fields, keep the ewes in good condi-tion, and no grain is required, except while the ewes are suckling lambs. "Last year," said Mr. McAfee, "I did not feed more than \$5 worth of grain to the whole flock. Fourteen ewes pro-duced 28 lambs. There were 10 pairs of twins, two sets of triplets and two singles. Five ewes in the flock found to produce lambs or else lost in the flock failed to produce lambs or else lost them in the pasture." This flock has averaged them in the pasture." This flock has averaged toore than 11 pounds of wool to the animal, and last year it sold for 50 cents a pound. I asked Mr. McAfee recently how he sold his lambs. We said the family had learned to like lamb so well that he butchered a good many at home, and his neighbors were always asking for fat lambs.

Sheep have been money-makers for Kansas farmers who have handled them right during the last few years. There is dan-

Ger, perhaps, that men inexpe-tienced with sheep may attempt to start on too large a scale. It is asy to lose money by plunging in sheep. It has been my observation that the safest way is to start with a few ewes and learn the business as the flock increases. I recall the experience of a boy in Crawford county, who started by trad-ing a pet wether which he had raised by hand for a bred ewe. In six years he had a flock of 35, most of them descendants of this one ewe. A single ewe in his flock one year sheared \$6 worth of wool and also raised twin lambs. On most farms the flock should never become more than a side-line. Handled in this way the feed consumed will never be feed consumed will never be missed. In fact a small flock will almost live on farm wastes and the most live for farm wastes and the wool and lambs sold can be counted as clear profit. M. L. Rob-

By G. C. Wheeler

SHEEP produce two of the essentials of life—clothes and meat. Mutton is now becoming as important a consid-eration in this country as wool. We are beginning to appreciate the palatability and helpfulness of this meat, which can be produced at 20 per cent less cost than beef. There is no mystery connected with the handling of sheep. They must have intelligent care, but require less attention intelligent care, but require less attention during the busy season than any other farm animal. A flock of sheep on a Kan-sas farm should excite no more comment than a flock of chickens. The farmer who will keep a small flock, giving them the care to which they are entitled, can expect a good return on his investment.

inson, a Franklin county farmer who has handled a small flock in this way for several years, finds that his ewes have made him an average in-come of \$27.50 apiece. For four years his flock has produced as an average a 175 per cent lamb crop, or at the rate of 35 lambs from 20 ewes. He feeds only what is raised on his farm. At lambing time he gives the closest attention to the flock, seeing that every lamb connects with its milk supply immediately. This may require a little loss of sleep, but it is the only season when such close attention is demanded. Dur-ing the lambing season he feeds the ewes oats in addition to hay and fodder.

In addition to hay and fodder. Mr. Robinson saves for breeding ewes only ewe lambs born twins. They are not permitted to produce lambs until they are 2 years old. He keeps two registered rams of good type for 50 ewes, during the breeding season running them with the flock on alternate days. This insures having all the lambs come within a short paried and reduces to a minimum the extra period and reduces to a minimum the extra work during the lambing period.

work during the lambing period. J. H. Wendt of McPherson county gives two reasons for keeping a small flock of sheep. They are the most profitable animals on his farm and they keep the place free of weeds. In 1917 he sold his wool for \$128 and ra/sed 29 lambs which brought from \$7 to \$9 aplece in July and August. He figures that his annual expense is about \$2 a head.

Sheep successes have not been confined to Eastern Kansas. August F. Hahn of Sheridan-county has found a small flock very profitable. He made his start in 1913 by purchasing six registered ewes and a ram for \$100. They pro-duced eight lambs the next spring. He sold three ram lambs as breeders for \$12.50 apiece,

kept three ewes for the breeding flock and but-chered two for home use when they were 10 months old and weighed 140 pounds each. The nxt year the six ewes produced seven lambs, five of which he sold for \$9 apiece. By this time his neighbors, who had strongly advised him against attempting to raise sheep in West-ern Kansas, were beginning to take notice of what he was doing, and were becoming much interested in his flock. interested in his flock.

"If you wish to make money handling sheep in the easiest and surest way possible," said Frank Mills of Nemaha county, whom I visited recently, "buy the right kind of Western ewes and breed them to good rams." Mr. Mills is farming more than 300 acres, and he says he is too how to prove the processor to proceed. farming more than 300 acres, and he says he is too busy to spend the time necessary to properly handle a purebred farm flock. In 1919 his lambs and wool from 70 ewes, bought the fall before, sold for \$152 more than the ewes had cost. He paid \$1,146 for these ewes and two cost. He paid \$1,146 for these ewes and two rams. They sheared 770 pounds of wool which sold for \$365. The 74 lambs averaged 68 pounds in weight and brought about \$12.60 apiece, or \$933. I asked Mr. Mills what his expenses had been. He said he bought 2½ tons of alfalfa for the flock, costing \$52.50, and about \$50 worth of grain. All the rest of their feed was picked up about the place. They ran on a 40-acre field of wheat and also had access to a good bluegrass pasture. No account had been taken of the pasture and waste feed they had con-sumed. Shearing cost \$14. Five ewes were lost during the year. during the year.

Western Ewes are Thrifty

"These Western ewes are free from stomach worms, are more hardy and are better rustlers than native sheep," said Mr. Mills. He goes to the stockyards at Omaha and gets the best comthe stockyards at Omaha and gets the best com-mission men on the market to help him select the ewes. It is necessary to guard against get-ting cld, broken-mouthed ewes. "We 'mouthed' every ewe in the lot," said Mr. Mills in explain-ing his method of getting a good breeding flock of Western ewes. He prefers to have them 3 or 4 years old, rather than younger. The young eves are inexperienced mothers and the burn ewes are inexperienced mothers and the busy man simply does not have time to fuss with them when the lambs are coming, watching to see that every ewe owns her lamb and is giving it proper attention. Young ewes, having twin lambs, frequently refuse to own one, and it perishes unless the owner is at hand to see that it gets its milk and to convince the ewe in some way that she must accept two lambs.

"In handling sheep in this way sell the ewes as well as the lambs and buy fresh ones from the range every fall, and you need not worry about stomach worms," continued Mr. Mills, in explaining the advantages of his method of making money with sheep. He sold 40 ewes in July to Delbert Chanel, a neighbor how. His present flock consists of

His present flock consists of boy. boy. His present nock consists of 165 ewes. The weather was cold and raw the day of my visit, and we found the ewes and their lambs grazing on the bluegrass in a portion of the pasture where some trees and underbrush pro-vided shelter from the wind. At night they are in a yard and have access to a feed barn open at one end and having a central portion filled with hay to the ground. ewe Tue cost \$10 apiece laid down in Havensville.

"Be sure to have plenty of rams in the flock," advised Mr. Mills, "at least one to 50 ewes." He had two with his 70 ewes and the lambs all came within three weeks. He advises turning the rams with the flock the first of October. This will bring the lambs the last few days of February and thru March. (Con. on Page 9.)



H. W. McAfee, Owner of This Shawnee County Flock, Says No Other Farm Enterprise Equals His Sheep in Profit on the Investment.



Passing Comment-By T.A. McNeal

- T HAS been offered as an excuse for profiteering that the American people prefer to pay a high price for what they have to

buy. I was told the other day that in a 10-cent store certain articles were placed on the 5-cent counter and the same kind of articles were placed on a 10-cent counter. He said that the manager of the store told him that more people bought these articles from the 10-cent than from the 5-cent counter. If that statement is true, the people paid 10

If that statement is true, the people paid 10 cents rather than 5 cents because they supposed and had the right to suppose that articles sold for 10 cents were of better quality than articles sold for 5 cents. People have a right to assume that the manager of a great business is on the level and will not offer goods at two prices.

I have heard that same kind of story in regard to shoes. A certain shoe merchant is reported to have said that he tried to sell shoes at a moderate price and nobody bought. Then he marked the same shoes up 100 per cent and sold them readily. If that is true it simply shows that the merchant deliberately imposed on the ignorance and credulity of the purchasers. They assumed, and not without reason, that in these times of high prices, any moderate priced article must necessarily be of inferior quality and that the only way to get shoes worth wearing was to pay a big price. They did not know enough about the quality of leather to form an intelligent judgment and assumed that because the shoes were marked up they must be of much better quality than the moderate priced shoes. Now the merchant who would take advantage

Now the merchant who would take advantage of this ignorance and credulity is no more honest than the bunco man or the operator of the shell game. He simply robbed the purchaser out of all over a reasonable profit on his shoes. There may be fools in the world who would deliberately hand money over to a merchant and get nothing in return, but they are certainly the rare exceptions. There are millions of people being skinned every day, but generally speaking, they do not know that they are being skinned until the operation has been performed, and very often they never find it out.

The Primary Election

ONE OF OUR subscribers, W. D. Harry, who used to live at Kinsley, Kan., but who now lives near Canon City, Colo., still takes an interest in politics as I see from the Freemont County (Colo.) Leader. He has been watching the effect of the primary election laws and concludes that while calculated to insure the selection of the best candidates, the tendency is to disrupt party organization.

dency is to disrupt party organization. That may be true, but it may not be a bad thing. There is certainly not the same feeling of party loyalty there was a comparatively few years ago. It is no longer considered a disgrace to scratch a ticket. In fact, most men now openly declare that they will not vote for a candidate on their own party ticket who does not suit them.

This does not necessarily mean a disruption of parties. However, it ought to mean that parties will be more careful in selecting nominees. There are undoubtedly objections to be urged to the general primary, but they are nowhere nearly so serious as the objections to the eld methods.

Denominational Colleges

ONE OF our readers, S. A. Bassett, of Homewood. Kan., writes me bitterly criticising denominational schools. "If the denominational colleges," says Mr. Bassett, "would lay down a broad and inclusive course of study that meant a gradual lining up by the side of such institutions as Yale, Harvard and Cornell, their patronage would multiply amazingly. The people understand and don't desire their style of service and we see hundreds and thousands going to the technical schools in consequence.

"The denominational colleges are making every effort to get more young men to take up the cross as reverends, failing utterly to supply the call, or apparent call to fill vacant fields. "I am surrounded here by the members of

"I am surrounded here by the members of churches both Catholic and Protestant and the prejudice against the idea of evolution and a real science course in college among these families is a shame. . . The American Federation of Teachers is crying out against the domineering and despotic attitude of the clergy and laity who are dictating to the schools what shall be taught and what shall be considered heretical. As long as the public stands for the church meddling with the schools, history will continue to repeat itself."

I certainly am as much opposed as Mr. Bassett can be to the churches interfering with our schools, that is our public schools, but if there has been such an attempt in recent years out here in Kansas I am not aware of it. No doubt there are bigoted church men who would like to run the public schools according to their religious ideas, but I think they are in a decided minority even among church members.

The Reds

A SUBSCRIBER at Liberal, Kan., writes me expressing his opinion of the reds and the causes that produce them. He admits that they are a peril to the country but is of the opinion that they are the natural and inevitable result of the injustice and unfairness practiced by the money power known as "big business" and the general dishonesty and incompetence in government.

Probably this subscriber takes too pessimistic a view of the situation but he is right in thinking that growth of dangerous radicalism is almost wholly due to the selfishness of that class who have only one object in life and that is to gather in great profits and accumulate vast wealth without earning it.

Rural High Schools

M Y FRIEND, F. M. Howell of Rice county is an enthusiastic advocate of the rural high school. In a communication to the Sterling Bulletin he says in part: "The exodus from the farms to the crowded cities of the boys and girls from the rural communities is a startling and serious problem, which is vexing the minds of the home folks on the farm, also many of the expert workers in community affairs are gravely concerned and are grappling with the problem and as a result many theories and remedies are being advanced.

"However, under the miscroscpe of the expert rural community investigator and the scientific deducer of facts from theories, we discover there

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are three real fundamentals that if put into practice will practically solve the difficulty. Modern equipped farms and homes, modern church houses, and special emphasis and a determined attitude towards the rural high school where every boy and girl can receive a high school education right at home and surrounded by those environments and ideals such as are found nowhere else in all the world except on the farm.

"The home, the church and the rural high school is a combination unbeatable and only thru the combined efficiency of this can the rural communities hold the best of our boys and girls on the farm where growth and development will be under natural and happy conditions."

They are putting this idea into practice out in Mr. Howell's neighborhood and apparently with success. He concludes his article with the following personal experience:

"Personally I am a rural high school enthusiast and a patron of Union 5 consolidated school. It is a splendid school, well located for adding additional territory south, east and west for the support of a rural high school. Many of the patrons of Union 5 are intensely interested as also are our neighbors in the surrounding contiguous territory. We could have 20 common school graduates next winter and at the end of four years by the time the first class of 20 were ready to graduate we could have more than 100 practically grown younger people in our high school department, to say nothing of the 125 or more in the grades.

"Could we think of a community as being 'dead' with more than 225 or 250 young persons In it with their happy faces in the home, their activities in the church and school and irresistible spirit in all community affairs? This is a practicable and logical possibility in Union 5 amazingly easy to put across providing we go about it in the right spirit and a realization that it is of mutual interest we should work together for the betterment of rural conditions and that we are so constituted as human beings that it is is impossible to help others without helping ourselves."

When the time comes, as I hope it will, when the state of Kansas will be divided into approximately 2,000 consolidated grade and high schools, with modern, beautiful buildings, each surrounded with a beautifully kept campus ranging in size from 5 to 10 acres, with artistically arranged and well kept flowers, trees and shrubbery, ample play grounds, swimming pools, dining halls and modern equipment, the conditions will be so much more attractive than those connected with the ordinary town or city high school, that the children of the cities and towns will envy the boys and girls in the country and the drift of population from the country to the cities and towns will be stopped.

Radical Propaganda

A WEEK or two weeks ago I wrote an editorial paragraph or two concerning strikes. I stated what I felt to be a fact, that the radicals were undertaking either to capture or destroy the American Federation of Labor and that they had fomented the coal and steel strikes against the advice of the conservative leadership of the Federation of Labor. I merely made this statement as a matter of news, but a radical Socialist who lives in Oklahoma wrote me a most abusive letter, calling me various and sundry uncomplimentary names and also sent me a number of clippings from radical Socialist papers, most of them abusing Gompers even more than they abused the hated "capitalists."

Just what the Oklahoma reader is hot about I do not quite understand. That the radical irreconcilable element in organized labor circles incited the strikes mentioned, there is no doubt. Furthermore. Fred G. Biedencamp, radical leader, very frankly declares that the more unsuccessful strikes are the better. He declares that he and his followers encourage strikes in order that they may fail. His idea is that the unsuccessful strike causes discontent among the workers and also destroys' confidence in conservative leadership of the American Federation of Labor. Biedencamp is also quoted as saying: "We fan class hatred. That is our mission. We, who are organizers, must teach the American laborer that his employer in his nat-

I had not accused the radical leaders of going as far as their own leader, Biedencamp, declares they have gone.

I frequently have wondered why radical labor leaders never advocate the acquiring of industrial plants by the workers themselves. It is quite certain that the losses to the workers occasioned by strikes if saved would soon amount to enough to pay for a number of important industrial plants. If there are profits in the business, the workers being the owners, would reap them. In other words, they would become capitalists themselves.

I would very much like to see an experiment of this kind tried out. Within a comparatively few years the laborers might own a majority of the mines and industrial plants of the country. That would, of course, eliminate strikes so far as the worker-owned plants were concerned, and the owners of other mines and industrial plants would be compelled to provide goods or ore at the same price as the worker-owned concerns and pay the same rate for wages. Either that would happen or they would soon go out of business.

Wheels in Their Heads

A SUBSCRIBER of the Kansas Farmer and Mail and Breeze, Harry Leclerk, of Burrton, Kan., writes me that he recalls reading in one of my editorials the statement that it was surprising how many of the people one meets and talks with have wheels in their heads. "At that time," continues Mr. Leclerk, "I thought you were missive but on closer obser-

"At that time," continues Mr. Leclerk, "I thought you were mistaken, but on closer observation I find that you were correct. Some writers have put the estimate at 70 per cent. They say that the draft proved this; that about 70 per cent of the drafted were men of little or no education and that they had minds of children about 10 years old. There never has been a time when people have gone as wild and crazy on speculation as at the present. There is no limit to the amount of money they will borrow, provided they can get it, to finance all kinds of speculation. A banker recently told me he had turned down three requests from persons desiring loans ranging from \$6,000 to \$7,000 to be used in wildcat speculations.

"They plunge in cattle and hogs, borrowing the money, paying interest, renting pasture and buying feed. I never knew a man to make money that way. The men of my acquaintance who have made money in stock raising are those who have adopted a conservative policy, raising what cattle and hogs they could care for without hiring much help and feeding the grain and hay they raised themselves. It is very difficult to beat the system of keeping a reasonable number of good brood sows, what milk cows you and your family can take care of, separating the cream and selling it, feeding the skimmilk to pigs and calves; rotating crops, featuring corn, alfalfa, cowpeas and rye; feeding the alfalfa to the cows and corn to the hogs, and returning the manure to the land. The man who follows that system will be doing business at the old stand when the speculators have goue into bankruptcy.

"There seems to be a desire on the part of the younger generation of farmers to take a short cut to wealth. They do not care to use economy and thrift; in fact, they do not know what that means. I fear they are doomed to disappointment." The farmer who owns his laud, does most of his own work, keeps out of debt and uses moderately good sense, may not get very wealthy, but he is certain to have plenty and ought really to be the best contented man alive. Mr. Leclerk's advice is good. Only a few men are capable of making a success on borrowed capital.

The Marvel Mill

M Y OLD friend, James H. Lathrop, has left with me an extended article on the new custom grist mill known as the Marvel grist mill, which he thinks is going to help a great deal in solving the problem of co-operation among the farmers. This mill can be put up for a small cost comparatively speaking. It is estimated that the mill and elevator can be put up for not to exceed \$10,000 and this would mean a mill with a capacity of from 50 to 75 barrels a day. Some of these small mills are in operation; one at Lawrence, which is doing well in competition with the big mill already located there with an established custom.

The bakers of Lawrence, I am told, are much pleased with the flour made by this new mill. Now it is part of my old friend Lathrop's scheme to have a co-operative mill, co-operative elevator and co-operative bakery combined. Of course the farmers would not get all their baking done at the co-operative bakery, but they could in this way gather to themselves the profits which new go to the middlemen between the wheat grower and the ultimate consumer. It is estimated that the wheat for which the farmer even at present prices gets about \$9, costs the people who buy the bread made from that same wheat, not less than \$36. There is too much difference between the price of the wheat and the price of the bread. With a co-operative mill, elevator and bakery the farmers interested should get all out of the wheat to which they are entitled and they can in that way test the question of how much profit has been made at their expense.

I am interested in this as in any other movement toward co-operation. The fact is that the way for producers to cure the ills they complain of is to combine themselves in co-operative associations. Laws against profiteering will accomplish but little. They have the remedy in their own hands if they will only get together and use it.

Why They Leave the Farm

A Grander of the subscriber writes: "I notice that and Breeze under the heading, "Why They Leave the Farm." I give the writer credit for being honest in his opinions, but I also am sure that he is mistaken in his conclusions. I believe there is something radically wrong with our school system and I also think parents are much to blame for the exodus. I often have heard the remark made by thoughtless parents that they desired to give their children the benefit of an education; that they didn't wish them to work as hard as they had been compelled to work. I don't like the impression such dope is likely to leave on the student mind, for when they say goodbye to school they reach the conclusion that their starting place should be somewhere pretty well up the line.

"If the impression were created that honest toil is only paving the way to success, it might help to convince some of these wind-tanned boys and girls that the old farm with its many, but varied duties, with its fellowship of good clean society, with the pleasure of that fishing party just after the corn is planted, with the growing crops, young stock of all kinds, the hum of the busy bee, and above all the confidence and respect of your rural associates, is not half bad after all, compared with the stuffy office and the same old grind day after day. The office man is compelled to ask the foreman for a lay-off if he wishes to see a sick friend and, if he chances to be married and has children, he scarcely has time to get acquainted with them.

"I well remember when I was taken with that city mania. I could scarcely wait until I was 21 so that I would have the right to go. Well, about that time—1885—something happened and I got the Western Kansas fever and by the time I got thru with it I forgot all about the city, for I had failed about as completely as anyone could. I did not have any false dignity and was willing to work at such work as I was capable of doing. It was farm work and it took me two years to get square with the world. "Then I met and married a trusting little girl

"Then I met and married a trusting little girl who is with me yet and helping pull the load. We own a good farm of 160 acres with a well improved, modern, up-to-date dwelling such as the wise writer tells us to provide, so that our children will stay on the farm. But they are not staying. Why? You may answer the question if you can.

"Two of them completed high school. The oldest graduated from Kansas University and the second is now in the University of Chicago, studying law. They are both good industrious boys, free from bad habits, but they seem to be thru with the farm. My third son, a lad of about 20, didn't care for the high school. He completed the rural school at 15, and I think will stick to the farm. And now just a word in regard to the influence of the high school. T am not chump enough to condemn education. feel the need of it too keenly myself, but I wish to say that I live in a community where the people are not so enthusiastic about extensive They are agriculturists, and are inschooling. dustrious, thrifty people, a credit to the com-They have increased from a handful munity. of people 45 years ago until at present they own about half of the county and from present indications they are likely to absorb all of it soon. They ride in automobiles and are strong on social functions; use modern machinery and enjoy life and very few of them leave the farm. Have you the answer?"

Now that is a very interesting letter but the writer has reached no conclusion and while he starts out by saying that I am mistaken, he does not show at all how I am mistaken. Here he is, a successful farmer. He has three boys, all good industrious lads according to his own statement, but two of them either have left or will leave the farm. Why? Not knowing these young men, of course I cannot answer that question. It may be that neither of them is adapted to farm work. If so they would not make a success as farmers. But assuming that they are calculated to make good farmers what inducement is there for either of them to become farmers? The writer has 160 acres. He does not care to divide that among his three sons, and that means that if they are all to become farmers two of them must either buy or rent farms. At present prices for good farm land there would be little inducement for these young men to undertake to buy farms and I assume that neither one of them would be willing to become renters. What is there then for them to do but leave the farm?

The writer asks me for the answer. In my opinion the answer is that farming must be made as attractive socially and financially as other lines of business. When that is done, the boys and girls will stay on the farms and not till then. Secondly, the general conception of farming must be elevated, so that farming will be regarded as one of the learned professions, instead of one in which a liberal education is not necessary but rather a detriment. Evidently the writer of this letter still has in the back of his head, the idea that education is not at all necessary to the farmer. Of course if that is correct, we had better abolish our higher educational institutions, for the effect of these institutions must necessarily be to lead boys and girls away from the farm. I think the answer is in changing our agricultural system from an individual to a co-operative system. This could be brought about in one of two ways: Establish great corporation farming communities in which each of the workers will be a stockholder. The corporation would not only carry on the farm in the most up-to-date, excientific manner, but it would also carry on every other line of business necessary to manufacture the raw into the finished product. The schools established and maintained by the cor-poration would be correlated with the business of the corporation and there would be offered right there all the opportunities for educated young men that could be found anywhere.

A second plan would be to have individual ownership of lands, and the amount of land owned by each individual limited to a reasonable acreage. However, the machinery necessary to cultivate these lands should be owned collectively so that each farm land owner would have the advantage of the best machinery regardless of whether he was rich or poor. Buying, marketing, and so far as possible, manufacturing of the raw product should also be answer to the question.

Are the People Too Extravagant?

XTRAVAGANCE undoubtedly plays a large part in the saturnalia of profiteering that is gripping the country. I was more than ever impressed with this fact during a recent visit to New York City, where I went to attend a meeting of newspaper pub-lishers. The meeting was held at the Waldorf Astoria hotel, and so I took my lunch at this lishers. Fancy having to pay \$3.50 for just an place. ordinary meal. I had a piece of meat, not a large piece; sweet potatoes, bread, butter, coffee and a piece of pie. I suppose 50 cents would easily cover the amount the farmer got out of the commodities that went into this meal. doubt whether much more than half that sum reached the farmer's hands. The rest of the charge was for the preparation of the food and the service. It constitutes senseless and indefensible gouging.

Yet my experience is typical. It is repeated many thousands of times in New York every day. In a less degree the same thing is going on all over the country. Millions of Americans every day are permitting themselves to be thus imposed upon. Other hundreds of thousands who have made more money than is good for them during and since the war are encouraging such profiteering by their reckless extravagance. Tiffany's, the great jewelry store, never has done such a business before. B. Altman & Co., and other of the great metropolitan stores, are constantly thronged with customers who buy and buy and buy the most costly articles and never ask the price. So long as the merchants can sell anything they have on their shelves

have on their shelves for any price they may ask prices will not, of course come down. Washington, D. C.

mighty satisfactory fruit, which well deserves more attention on most farms. It is easy to produce.

Most varieties are propagated easily by hardwood cuttings taken before the hard winter freezes come. These usually are three-bud cuttings, made from the canes of the current year's growth and preferably from those having short internodes or joints. The lower cut usually is made close to the lower bud and the upper cut some distance above the upper bud. It is customary to tie these cuttings in bundles and store them, bottom up, in pits below the frost line or in a cool place in the cellar. They are set in the nursery row the following spring, usually slanting to the south so as not to catch the direct rays of the sun, and the soil firmly packed about them. Two-year vines are best for setting unless the 1-year vines are "two years big," as often happens when the season is favorable.

each way, tho the less vigorous varie-ties, such as Delaware, may be set much closer.

should be allowed to trail upon the ground, and should be tied to stakes only during the second year. Begin-ning with the third year, some form of trellis should be supplied.

pends is that the fruit is borne upon

fence trellis, a minimum of old wood is retained. Two to six canes of the preceding year's growth are retained, their length depending on the age and vigor of the vine, but usually from from 35 to 50 eyes or buds, depending

wood from canes having short inter-nodes or joints between the buds. the ground at will the first year. The Heavy canes with long internodes second year but two vigorous canes Heavy canes with long internodes usually mean poorly developed and

HE GROWING of grapes is de- and the Munsen or horizontal-arm trel- low the cross-arm, and other wires are Summer pruning, to let in the sun and veloping in many communities lis. The one principle on which succentried at each end of the cross arm. to throw strength of vine into fruit in Kansas. Certainly this is a cessful grape training and pruning de- Easy picking, an assurance of ventila- and bud development, is necessary for tion and an abundance of shade for best returns. Pruning at intervals is the fruit are advantages of this sys- better than a single heavy pruning

system long arms are trained to the before selecting the buds that are to wires, and short spurs of new wood, each bearing one or more eyes, are left when pruning

3 to 6 feet long, this depending also portance than the number of good, vig- move most of the brush during the on the number of canes to be retained. orous buds left for this year's crop of dull season. The second pruning permit Commercial growers count on saving fruit, tho the grower must plan to re- a selection of the more vigorous eyes from 35 to 50 eyes or buds, depending new the upright canes as often as pos-on the vigor of the vines. sible and keep the vines in a thrifty Where it is essential to grow the condition. It has proved advantageous crop well up off the ground, fewer to remove all old wood as often as pos-canes are retained. All commercial sible without interfering with fruit example a strength to save the bearing production. new the upright canes as often as pos-

Here a composed of the season is fa-brorable. Set 7½ Feet Each Way Grapes usually are set 7½ to 8 feet ach way, tho the less vigorous varie-ies, such as Delaware, may be set hould be allowed to trail upon the front. The Munsen or horizontal-arm trells for trells should be supplied. The trellis most frequently seen in farmass is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The Munsen or horizontal-arm trellis from trellis do the post about a foot be-ti at a height of 5½ feet. A wire trellis most frequently seen in Kansas is the three-wire fence trellis. The Munsen or horizontal-arm trellis three clusters of post about a foot be-trel three back way is porter the wine a double should be glower three wire to prevent slip-poorly matured wood. Whatever is second year but two vigorous canes should be retained, and these cut back should be one an average of two to should be borne an average of two to should be allowed to trail upon the front. The Munsen or horizontal-arm trellis arm 18 inches log, bolted or wired three cut the vine is calculated, and from several species of native Amer-tained for the season's crop. The Munsen or horizontal-arm trellis consists of posts which carry a cross-arm 18 inches log, bolted or wired three trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trellis most frequently seen in Kansas is the three-wire fence trellis. The trel

shoots which grow from buds formed the fruit ar advantages of this sys-better than a single heavy pruning the previous season. The 1-year-old tem, as it distributes the foliage over The pruning during the dormant sea-canes are the bearing wood, and the a greater surface. Son may be done at almost any time different forms of trellis vary the amount of old wood the vines carry. In the "fan" system on the wire tem is practiced. In the use of this to take an inventory of winter injury to take an inventory of winter injury produce the season's crop. Some grow. ers prune twice, leaving more wood the hen pruning. first time than is necessary, for the The method of training is of less im- same reason. This permits them to re-

May 8, 1920

M

the rag bag. Some growers grow willows for ties. If twine is used, many growers like to give the twine a double

Kansas is the three-wire fence trellis is stapled to the post about a foot be- canes, as his system may require, they have proved generally satisfactory.

To Protect Farm Crops

Much Progress Can be Made on Most Farms in Sowing Seeds Which are **Reasonably Pure and of Strong Vitality**

ORE CARE is needed with the farm seeds in Kansas. This has been well shown by the seed testing work at the Kansas State Agricultural college, and by the experiences of farmers. The col-lege examined 500 samples for purity

last year. Of the 121 samples of alfalfa seed examined, 67, or more than 50 per cent, contained as many as 15 impurities apiece. The impurities included both weed seeds and seeds of crops other than alfalfa. Seeds of 83 weeds were found in the 121 samples. As many as 18 impurities were found in one sample. Even more striking re-sults were obtained with the Red clover samples, in which 112 different weeds were found. One sample con-tained 50 different impurities, and 90 per cent of the samples each contained

1 per cent or more of impurities. Somewhat similar comments can be made about the seed of other crops. These samples may or may not have been representative of what Kansas farmers are using. There can be no doubt that a fairly large quantity of impure seed is planted every year, and that it is responsible in a large meas-ure for low yields and poor quality of crops. Moreover, the use of impure seed is one of the principal means of spreading and perpetuating noxious weeds on Kansas farms. A further difficulty in our seed sup-

ply situation is the frequent occurrence of unfavorable seasons' in different parts of the state. A severe drouth may cause a shortage in the seed supply of one or more crops. An early fall frost may prevent such crops as corn and the sorghums from maturing a satisfactory crop of seed, so the supply of seed is reduced or the germinating power is lessened, or both. The corn crop in Western Kansas is a case in point. Early frosts or other conditions unfavorable to corn frequently affect the production of seed corn in

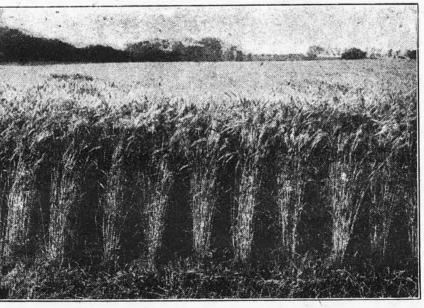
By F. D. Farrell

that part of the state. To be satisfac-tory in Western Kansas, corn must be thoroly acclimated. When the supply of the acclimated seed is seriously re-duced, it cannot be supplemented sat-is exactly what it purports to be. The isfactorily from seed produced farther case of Kanred wheat illustrates this east. Hence there is a seed shortage point until a year or two later when more Turkey and Kharkof that it is difficult local seed is available. This feature to distinguish one from the other. The of our seed supply situation deserves similarity is so close that an unscru-more attention than it has been re- pulous person might as easily sell Turkey or Kharkof as Kanred, and east. Hence there is a seed shortage point. Kanred appears so much like until a year or two later when more Turkey and Kharkof that it is difficult ceiving. Another element of uncertainty in- thus discredit the new variety and volves the character of the seed sup- deceive the farmer. In connection ply; that is, the kind of seed available with Kanred and other improved from time to time. It is difficult to strains of field crops which are in the tell in advance how much seed of a course of development, we need to

evolve a satisfactory method whereby a farmer purchasing seed of one of these improved varieties may be as certain that he is getting what he pays

for as with a registered animal. There is perhaps no single method of solving all the problems of our field crop seed supply. The situation is a complex one. In the main, farmers must solve their own problems with whatever aid the state can give them chiefly in the way of information and suggestion, and perhaps some regula-tion. The first thing is to recognize more clearly than we commonly do the importance of seed supply in our croft industries. Once we do this we can see several helpful things which can be done to improve the situation; and what is equally important, we can set that it will pay us to take the pains necessary to do them.

Every farmer should test his field crop seed for germination before planting. Generally speaking, the ac cepted rates of seeding are based on standard germination. If a farmet plants seed of low germinating power without knowing or suspecting it, he is likely to seed at the ordinary rate and as a result secure a poor stand and subsequently an unsatisfactory yield. Moreover, if he suspects that the communition is low he is likely ¹⁰ the germination is low, he is likely to use too much seed and thus frequently obtain a stand that is too thick. especially when dry weather comes. he ascertains the germination of his seed before planting, he can adjust his rate of seeding in accordance with the germinating power of the seed he uses If the germinating power is found to be too low to be safe, he can obtain better seed. In the absence of some such procedure the state is bound to contain every year thousands of fields with unsatisfactory stands—some too thick and others too thin—and these fields are one of the most important factors in depressing our average yields and in reducing the farm profits



A Field of Kanred Wheat; Good Seed is Essential if Farm Crops are to Produce the Most Profitable Returns for the Owner.

To Supply Running Water Modern Homes are Being Built in Kansas Which Have Pressure Systems Installed, and These Save Much Labor

UNNING water, piped thruout UNNING water, piped thrubut the house and farm buildings, is not a rural luxury. It has become a rural necessity. The housewife has come to realize his and to know that the efficient of how work is dependent

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his and to know that the efficient handling of her work is dependent argely on a proper and convenient vater supply. Today the farmer is be-oming convinced that in failing to have ming convinced that in family to make a pressure water system on his rath a pressure water system on his rath he is passing up an opportunity fincreasing profits without an addi-tional outlay of effort. Take E. C. Kassebaum of Menoken, Parke E. C. Kassebaum of Menoken,

r Henry Burgess of Onaga, for ex-mptes. These men are pressure water extent converts. Both have commod-ous and well built homes. Go to either i them. Ask him the thing about his ome of which he is most proud. He will ame one of two things—either his ater system or his electric light plant water systems on these farms instrative of two methods of suplying running water to the farm home nd outbuildings. On the Burgess farm voir on a hill above the house. water is forced thru the main to house by gravity and the pressure afficient to carry it to the second y A pump keeps the reservoir or

rage tank full, and a plentiful supwater is always available in the muts at the house and barn. This in also supplies water to irrigate have and will insure a luxurious with of bluegrass and shrubbery.

Two Tanks are Used

the Kassebaum farm the water tem, including the well, is in the ment. Two steel tanks are in use, for hard and one for soft water. nall pump, run by power from the vie light plant unit, keeps both full, forcing the water into them the pressure is sufficient to carry the second story. Ranning water available, both houses are pped with sewers and sewage displants.

the Kassebaum farm three septic and more than 200 feet of drain give a capacity for 15 persons. may be a large capacity, but Mr. baum points out that it results in being absolutely no surface moisfrom the sewage disposal plant. piped to storage tanks or barrels ood troughs. This plan, from a nic standpoint, was dangerous as oughs were open and the water

casily become contaminated. pipe, when developed, solved roblem of sanitation, because the could be buried. It also made ide the piping of water to upper is in houses. The elevated storage soon_followed the underground e system and is in extensive use The elevated tank may be made ze and placed at any height, thus ling any desired pressure. It also irable because it affords a large y of water at all times for fight-

lisadvantage of the elevated tank at the water may freeze. If the is made frost proof, the expense istruction for ordinary use is, for ame capacity equipment, usually than for either the hydro-pneuor the non-storage method.

first hydro-pneumatic plants placed on the market about 25 These plants are operated preing water into a closed iron or tank, which compresses the air on of the water and forms stored by or power to deliver the water of the track. of the tank. By pumping the tank thirds full of water, a pressure of younds to the square inch is atof water the pressure is 45 pounds he square inch.

ost of installation, where only a here hand power is used, is as low as for the tank and pump. The pipand fixtures are extra.

The tank must be protected from

By Ray Yarnell

freezing and it usually is placed in the lack of adequate arrangements for wa-basement or buried in the ground. Pro- tering, it is estimated that a failure vision should always be made for clean- to have water systems costs American basement or buried in the ground. Pro-vision should always be made for cleaning the tank to prevent contamina-tion of the water from the slime, mud and other foreign matter settling in the bottom of the tank. To install a "non-storage" water sys-

tem it is necessary to have an air reser-voir or tank, an air compressor, with power to operate it, a set of fittings, such as pressure gauges, air and water valves, air and water pipe and one or more pneumatic pumps.

A pneumatic pumps. A pneumatic pump is used to force water out of a closed receptacle by the use of compressed air. By filling an ordinary range boiler with water and introducing compressed air at 44 pounds pressure at the top and connecting a discharge water pipe at the bottom, the water will be forced out of the tank and elevated 100 feet, since the weight of a column of water 100 feet high is 44 pounds to the square inch of area exposed.

The principle of operation is simple, but the first inventors discovered that the mechanical construction of the necessary water and air inlets and the air exhaust valves was a difficult problem. About five years ago the first single cylinder pneumatic pumps were brought This coastruction eliminated the troublesome shifting mechanism used in the double cylinder pumps. Only one air inlet, one air exhaust or air outlet and one water inlet were necessary. Two ordinary copper floats, with air and water pressure, did all the work.

With the average farmer handi-capped because of the labor shortage, any machine which will relieve a man of labor is a valuable asset to him. Investigations indicate that there is a large waste of food and loss of time on many farms as a result of the lack of water systems. Careful experiments made by state agricultural colleges, county agents and dairy cow breeders show that milk cows will produce from 3 to 10 pounds more milk a day, on the same feed, where water at a temperature of from 40 to 48 degrees is althere is a record consisted of by the United States, as estimated there is a record consisted of by the United States Department of solutions. Later water from springs -Agriculture January 1, 1019, would in-there is a record consisted of by the United States Department of by the United States Department of solutions. Later water from springs -Agriculture January 1, 1019, would in-the or barrels crease the production of milk by 67½ crease the production of milk by 67½

farmers more than a billion dollars a year. Estimating the average cost of a farm water system at \$500, the loss sustained in three years would pay for a water system for every one of the 6 million American farms.

There are about ¹/₄ million water sys-tems now in use on farms in the United States, 90,000 of which were purchased during the last 12 months. This rapid increase in the number of plants being bought is attributable to several causes. The American farmer during the war was called on to increase his production of foodstuffs. He did so, but to accomplish his purpose he had to call on improved machinery to overcome the labor shortage. The tendency toward better machinery to make up for the lack of farm laborers has been noticeable for a number of years and is becoming more pronounced.

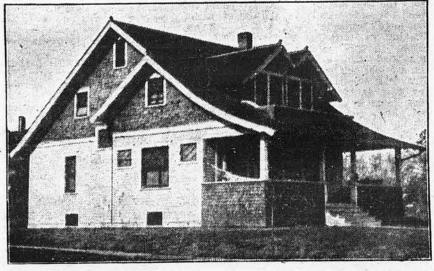
Rural living conditions are rapidly becoming better. The automobile, rural free delivery, and the telephone have been potent factors in bringing the country and city closer together. Thousands of farm homes today are as con-veniently arranged and equipped as city homes. The farm woman is able to organize her work on an efficient basis which gives her some of the leisure the city woman has always enjoyed, In the organization of the farm home the water system plays an important part. It may have been a luxury once, but today, when the farm woman can scarcely obtain assistants or help of any kind it is a real necessity and will save her much drudgery, and a great many useless steps that she would be compelled to take in going back and forth to the well for the family.

Repairing the Mowing Machine

BY R. C. NICHOLS

One of the worst experiences one can have is trying to operate a mow-ing machine that is out of order. It is as irritating as traveling in a motor car that is only "hitting on three cyl-inders." Nothing is more trying on ways available, than where water is is as irritating as traveling in a motor supplied two or three times a day, car that is only "hitting on three cyl-Proper watering of the 23½ million inders." Nothing is more trying on cows in the United States, as estimated one's patience than to "choke down" and have to clean the sickle bar when the temperature is 100 in the shadeand there is no shade.

crease the production of milk by 67½ and there is no shade. million pounds a day. At 3 cents a pound this additional milk would be worth 2 million dollars a day or 730 mowers, and get as much service out million dollars a year. The United States Census Bureau says there are more than 6 million farms in the United States. Water in the house and barn probably would save 1 hour a day on every farm, or 6 million hours a day. Valued at only 20 cents an hour this time would be worth \$1.200.000, or 438 million dollars the spring for this work one should the spring. If he does, he usually the spring for the does of the lack of million hours a day. Valued at only time, and the ultimate result will be that he will have to go to town and buy a new machine.



A Good System of Supplying Water Under Pressure is Essential in a Modern Country Home, and Much Progress is Being Made Along This Line

pitman connections. If one will ex-amine these parts now, there will be time to order repairs.

The filling of a sickle bar with new sections or replacing a few worn or broken ones is a simple matter. The easiest way to remove an old section is to place the sickle bar on the edge of an anvil, with sections pointing down, hold firmly and hit the back of hammer. This is quicker and easter than the cold chisel and punch method, for one blow of the hammer will cut both rivets. It is easy to rivet the new sections to the sickle bar after the old ones are removed. One should ex-amine the bar to see if it has been sprung after it is repaired. If it has a few taps with a hammer will put it back in condition.

The guards usually are in bad con-The guards usually are in bat con-dition after the run of the previous season. It usually is advisable to re-place all the ledger plates with new ones every year. One must be careful to see that the rivet which holds the ledger plate is hammered down so the surface is smooth. The slightest-pro-jection will often cause the sickle to catch and therefore cause "much an-noyance. A sharp cold chisel will aid in removing the projection.

Badly worn pitman irons or knife heads cannot be repaired and must be

replaced with new ones. Many farmers take the "play" out of worn pitman boxings by lining them with a thin sheet of copper. This will aid in increasing the service from pit-man boxings and it is cheaper than buying new ones.

If the boxing is of the babbit-lined type it can be rebabbited if worn badly. The old babbit must be removed first, and the surface cleaned, for babbit will not adhere to a dirty surface. A piece of rosin the size of a grain of corn added to the babbit will aid in eliminating dross and air holes. Care must be taken that the moisture does not come in contact with the hot babbit, because this will cause it to explode.

The guards have a tendency to work loose. It is a good plan to examine them every day the machine is used to determine the condition they are in. If they habitually work loose, it is best to remove the old bolt and replace it with a new one. The cause of most loose guards usually is that the threads of the bolt will not hold.

One can often find the repairs he needs on discarded machines or around junk piles. Several dollars often can be saved by using repairs from a mower that has been thrown away.

Rock Island Dairy Train

During the past two weeks the Chicago, Rock Island & Pacific Railroad company has been conducting a special million hours a day. Valued at only time, and the infinite feath will be company has been conducting a special 20 cents an hour this time would be that he will have to go to town and dairy and poultry campaign in North-worth \$1,200,000, or 43S million dollars buy a new machine. A year. Ignoring the probable loss sustained traced to loose or dull sections, worn homa at Tyrone. April 20; Hooker, by producers of beef and pork thru out ledger plates, loose guards and April 21; Guymon, April 23; Good-well, April 23, and Texhoma, April 24; Good-well, April 23, and Texhoma, April 24; Monter and Southwest and Southw Meetings were held in Kansas at Pratt, April 26; Wellsford, April 27; Haviland, April 28; Greensburg, April 29; Mullinville, April 20; Bucklin, May 1; Mullinville, April 30; Bucklin, May 1; Kingsdown, May 3; Minneola, May 4; Fowler, May 5; Meade, May 6; Plains, May 7, and Liberal, May 8.

These meetings were well attended by farmers, dairymen, bankers, busi-ness men and poultrymen. Special talks were made at these meetings by Prof. J. B. Fitch and Prof. W. J. Pe-tersen of the dairy department of the Kansas State Agricultural college Prof. N. L. Haris, poultry specialist of the division of college extension in the Kansas State Agricultural college, and A. M. Jackson, agricultural agent of the Chicago, Rock Island & Pacific Railroad company, also made addresses.

The advantages of purebred stock were emphasized at these meetings and all dairymen were urged to use nothing but purebred dairy sires. The advantages of purebred poultry also were stressed. The county agents in all of the counties visited took an active part.

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Farmers Discuss Poultry Raising, Profiteering, Farming With Tractors. Dairying, Compulsory Military Training and Other Important Subjects

set aside for their use. Letters will not see our war debt settled. All on dairying, poultry farming, the institutions of different names and growing crops, feeding and marketing livestock, rural schools, good roads, they can wrest from the people. farming with tractors, fighting the high cost of living, profiteering, and other matters of general farm interest are especially desired. Short letters will answer our nurpose hest and we will answer our purpose best and we will publish all those that we agree to accept. Address all communica-tions intended for this page to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Enjoys Washington Comment

I enjoy reading the Washington Comment of Senator Capper very much. He is hitting the nail on the head every time. We certainly need more men like Senator Capper to look after the welfare of the common people. The time has come when all the big corporations must be controlled by the government. When they violate the law they should be given a jail sen-tence and fine, and receive the same treatment accorded to other criminals.

Something must be done to keep the boys and girls on the farm. The present plan of lowering the price on farm products and skyrocketing the prices on everything the farmer buys will soon drive all of our young people to the big cities. No one can accuse farmers of being profiteers. Hennessey, Okla. E. G. Barnard.

Makes Money Selling Eggs

By setting eggs from winter layers only I have improved my flock of hens. I have raised Single Comb Rhode Island Reds for eight years and never have passed a day without getting eggs, except in winter. Now I sell from 15 to 30 dozen eggs a week from 40 hens and 100 pullets. I always keep account of the feed, part of which we buy and part of which we raise. I also keep account of the eggs and chickens sold. I know my flock has been greatly improved by getting eggs from winter layers. Some hens will lay only in the spring, however good the feed. These hens I cull out and I set eggs only from good winter layers, setting them in February. My best layers seldom sit. I have some 2-year-old hens that never become broody, and I find these make the best records. I have cockerels from heavy egg laying strains. Every year I can see a great improvement. For the past winfer my book shows three times as many eggs from 140 hens as I got from 200 hens a few years ago. I have only a common hen house with scratching shed and wire south front. I never turn my hens out when the frost-is on the ground or when a chilly wind is blowing or when it is cold and wet. I make my chickens scratch for their feed and give them clean water and skimmilk to drink. I keep oyster shells, grit, water and bran before them all the time. My other feed is mostly

cents a dozen. For my last eggs I got 58 cents. I do not think there is anything on the farm more profitable than a good flock of chickens for the amount of money invested.

Mrs. Carrie Cooper. Lawrence, Kan.

Favors Capper for President

I heartily approve of Senator Cap-rived and was assembled we started in farm. per's position in regard to profiteer- to thresh, and were able to thresh Goo ing. A very large majority of the com- about 1 bushel a minute when in good the S mon people are with Senator Capper running order.

ARMERS are urged to make to put down the oppressors, and the free use of this page which is extortioners. Many unborn generations set aside for their use. Letters will not see our war debt settled. All will not see our war debt settled. All the institutions of different names and

Farmers are Robbed

I mw an article in an Eastern publication by Senator Capper relative to the middlemen and the spread between the producer and consumer. I couldn't resist writing to compliment him on this article which is the best I ever read. The country needs men like him. I hope he will meet with success in his enterprises as the true friend of the farmers. I am a young farmer and we are certainly in need of friends like Senator Capper. Ronald J. Pfeifer. Jeffersonville, N. Y.

pulling three 14-inch plows of the addition to these we will always have

the only trouble and expense we had besides oil was when we burned out a bearing.

After threshing we used our tractor for seeding wheat, pulling two 10-foot drills and seeded more than 300 acres at an average of 40 acres a day.

the feed grinder. For these jobs I can truly say it cannot be excelled.

Summing it up I will say that the tractor has come to revolutionize farm work and I cannot see how any man with a farm of moderate size can successfully operate it without a tractor suited to his acreage.

/ John Franke. Herndon, Kan.

Millions in Poultry

The poultry industry of America, and especially our beloved state of Kansas, is only in its infancy but the some in the spring and summer. annual income from it runs into bewildering millions like the war debt of Farms With a Tractor Our first tractor, a Mogul 8-16, was looked so bright for the busy hen. bought in the fall of 1916. We used it Within 10 years the population of the to plow 100 acres of ground for wheat. United States will be 150 million. In pulling three 14-inch. plows of the addition to the population of the

During the entire run of three weeks then I changed to Cotswold bucks. This gives me a larger sheep and a little heavier fleece. The good Cotswoid buck with a good grade ewe gives very pretty white-faced smooth large lamb which sell well on the market. My lambs came in March last year and from 100 ewes I raised 115 lambs and We also used it for running our en- in August I shipped the fattos to the silage cutter, sawing wood and running Robinson & Co., at St. Joseph, Ma silage cutter, sawing wood and running They brought me about \$12 a head and They brought me about \$12 a head and They brought me about \$12 a head and the flock of I sold the wool clip from the flock of 100 head for \$5 a fleece, making a total income of \$17 a head. I still have the ewes which lambed in Febre-ary. You see I will have an carlier lamb next summer that will bring a little more money than last year.

May 8, 1920.

I will say that a flock of good breed ing ewes are the best paying livestock I can handle. They don't take much feed as I shift them around over the farm where they keep the rank growth of vegetation cleared up that is trouble

One wool clip and one lamb crop from a flock of good ewes will pay for their cost. I would say to the begin-ner don't buy too large a flock to be gin with and if you keep them in a dry shed or barn not too warm and let them have plenty of exercise they will make you money and it will be a pleasure to have them. Atwood, Kan. Frank Turner.

Success in Dairying

Many a time the question is asked by men starting in the dairy business which breed do you think is, best? This question is often difficult to answer in so far as it concerns the personal preference for a breed. Some persons like the Holstein cow. Others prefer the Jersey or Guernsey and it is therefore always safe practice to start with that breed which you like, for the any breed carries the possibility of success, you are more likely to succeed with the breed-that suits best your taste.

When once started with a certain breed, bear in mind that it pays to stick to that type for changing of mind goes easier than changing of breed, unless you have made a mistake at the beginning. I believe every breed is pretty well adapted to any climate, provided of course the proper care and feeding are given to the animals. An other question is still the soil condition If well nourished animals of rich soils are brought to poor territories they are likely to retrograde in many ways, but extra care and soil improvement and here again the remedy. I might con-clude by saying that it is not the breed that leads to success but the manage ment of the person, who starts in this business L. Dykstra.

Broomfield. Colo.

A Tractor Hitch

Nearly every farmer is interested in new uses and hitches for the tractor. Those who already have tractors de sire to widen their scope of utility and those who have not, wish to know more of the general usefulness of traction power.

was procured from a neighbor. The two were hitched side by side using a telephone pole of medium size for a double-tree. This double-tree lasted for about one yard of travel. Then we rot a 4 inch by 4 inch act then we **Finds Sheep Profitable** I am raising a few sheep in North-west Kansas and find they are a pay-ing proposition. They are the least trouble of any stock I have on the farm. Good Western Merino ewes bred to is a strong equalizing bitch and a con-Good Western Merino ewes bred to is a strong equalizing hitch and a comparatively light timber will serve. Paul Burg. Lakin, Kan.

Good Ronds and Motor Trucks are Helping Farmers to Market Their Fall Products More Satisfactorily and to Better Advantage Everywhere.

power lift class, thus enabling one man some of the other nations to supply

a hand lift and necessitated the use of

20-32 Racine separator. As the Mogul the cookstove. being only an 8-16 was not powerful enough to handle it, we traded it in and got a Titan 10-20 instead.

We received the Titan immediately but as the separator was not to arrive for several days, we started in disking and disked about 40 acres of land which was weedy.

As soon as the grain separator ar-

to operate it alone without difficulty. with food. Not only must the soil pro-Later we used it for listing, pulling duce as it never did before but the indouble row lister and listing more dustrious hen must do her share. The than 120 acres of land. But our one sunshine period of the poultryman is mistake was in buying the lister. We dawning. Get ready now, buy a few needed one immediately and according- acres, erect buildings, learn the details ly took the first one available. It was of raising and selling, then when pie is passing, your plate will not be turned down.

two men to operate it. Disking was also the work of this tractor. In 1917 we disked a consid-erable amount of our wheat ground, select for eggs, and remember that the using a 5-foot one way disk. But last summer, the wheat crop will be busy 18 hours a day, and every being very large and threshing ma-minute of the time improving one vathru the winter. I sold in December 59 dozen eggs for \$35.40 and in Jan-uary 128 dozen for \$65.18. The highest price, received in December, was 77 20.32 Bacine construction to the time improving one va-thru the winter of the time improving one va-riety, if you mean to be at the top. We recently had occasion to move a riety, if you mean to be at the top. We recently had occasion to move a riety, if you mean to be at the top. We recently had occasion to move a riety, if you mean to be at the top. We recently had occasion to move a riety, if you mean to be at the top. We recently had occasion to move a riety, if you mean to be at the top. Two room house about 34 mile to an to turkeys, don't try to set the world on skids and found to be too much of a 20.32 Bacine construction to the turkey and then burn yourself lighting load for one 12-20 treator on another

Go into the game to win. Zeandale, Kan. F. E. Marsh.

the Shropshire buck will prove, very good and that is what I began with and

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Real Printed Matter

BY T. W. MORSE "My Breeding Herd" is the title of a hord catalog just issued by a promi-nent Shorthorn cattle breeder of the Southwest. But this book so far de-parts from the usual plan of a livestock catalog, and so far advances beyond what heast of ore has been done in that line that this mention seems warranted. In justice to the interest of many In justice to the interest of many readers we should state that the cata-log is issued by H. C. Lookabaugh. It is a book of 120 pages, bound loose leaf style, so that pages may be re-moved or added as desired. Mr. Lookabaugh will keep a record of all Short-horn breeders who have one of these horn breeders who have one of these books, and as new breeding animals come into his herd he can supply them with new catalog pages, or can notify them when any are dropped. This gives each a complete record of the herd, in which there is no "dead wood." Naturally, the book opens with a his-tory of the herd's development and earries a liberal and extremely intercarries a liberal and extremely interesting line of illustrations. The work is a printers' masterpiece, in two colors on enameled stock, with a special cover adapted to the "loose leaf" idea. But the feature which may appeal most to other men in the purebred live-stock basiness is the record of the breeding herd. The pages, which are $7\frac{1}{2}$ by 10½ inches, carry two complete pedigrees to the page and under each pedigree of a brood cow are blanks for keeping a record of her produce and

for keeping a record of her product and its disposal, for four years. On the fitle page of his catalog Mr. Lookabaugh says: "A Step In the Commercialization of the Cattle Busi-I should say it is a step in addness." ing permanence and interest to both the commercial side and the professional side of the business.

A still better characterization is found in Mr. Lookabaugh's dedication of the book, which he addresses: "To the Shorthorn Cow," and in which he

"The destinies of men are shaped thru various agencies. Some acknowl-edge their allegiance to lofty ideals, others worship the lives of characters in history. Emerson said, 'Hitch your Wagon to a Star,' but it was the Shorthorn Cow that shaped my destiny. It was thru her that losses in farm operation were turned into profits. those my associates from among the stalwart men who are engaged in her propagation. She elevated my vision from the level of the horizon to a conteption of greater purposes in life. The sentiments and emotions which have been created within me as a result of these associations and this newer vision have become the bread of my very existence, Obligations I acknowledge, and as an individual I would feel lacking in the qualities of a true citizen were I not to impart to others some of the lessons I have learned thru my experiences, associations and observations."

A Profit from Sheep (Continued from Page 3.)

I was interested in the results the boy who bought the 40 ewes was getting, but did not have time to visit him. "He has 52 lambs from 38 ewes," said Mr. Mills. It seems he had just been over to dock the lambs and casbeen over to dock the lambs and cas-frate the rams, for the boy was inex-perienced with sheep. This developed a rather important point in handling sheep. Hundreds of "bucky" lambs, with long trailing tails go to market every year. All lambs should be docked, and ram lambs to be marketed after they are 14 weeks old should be after they are 14 weeks old should be castrated. Mr. Mills pointed out that this is a matter of dollars and cents, ram lambs are discriminated against from 75 conts to \$4.50 a hun-dired on the market and they do not gain so much as castrated lambs. The long tails detract from the appearance of a bunch of lambs and may cause them to sell for less than docked lambs. "I dock and castrate at one opera-tion, on a bright, sunny day," said Mr. Mills. "Both operations should be per-formed before the lambs are 2 weeks formed before the lambs are 2 weeks old." Mr. Mills uses a docking iron. The jaws are heated and the hot iron sears the wound as the tail is cut off, thus preventing bleeding. The tail can be removed with'a knife or chisel, leaving a stub about an inch long on ewe lambs and a little longer on the rams.

scrotum, and with lambs not more than 10 days old, pull the testicle straight out without removing it from the inner sack. In both docking and castrating use some disinfectant on the hands and instruments. It is a good plan to apply a mixture of tallow and tarpentine to the wounds.

Some Good Profits

Many instances might be related of profits made in handling Western ewes as Mr. Mills is doing. Thomas Price of Lyon county bought 230 ewes two years Lyon county bought 230 ewes two years ago for \$1,700, wintering them on clover hay without grain. - They sheared 1,950 pounds of wool, which brought \$1,796. The ewes were sold for \$2,492, just a year from the time they were purchased, and the 129 lambs brought \$1,236.60. These ewes summered on pasture and a weed patch.

ewes and their lambs were on a blue- club should greatly increase the in-grass pasture by the roadside and were terest in sheep in that section.

It is a good plan to pull the skin at just starting for the barn as we ar-the root of the lamb's tail toward rived. The start in sheep was made on the body before removing the tail. this farm three years ago with 24 ewes When the skin is released it will slip back and partially cover the wound. To castrate successfully, cut off the lower third of the were sold the latter part of November exercise and with lembs not more than for \$1440 e hundred exercise about were sold the latter part of November for \$14.40 a hundred, averaging about 95 pounds in weight. They sold as fed lambs, altho they had received no grain other than what they had picked up in the wheat stubble. All the feed they got was bluegrass pasture and waste roughage about the farm.

Fully two-thirds of the farmers about Havensville and in Southern Nemaha county keep a few sheep. Mr. Knox shipped in a carload of bred ewes last fall and sold them-to the boys and girls of the community in small lots for \$16 apiece. Blaine Crow, who teaches vocational agriculture in the high school, was much interested in this project and went with Mr. Knox when the ewes were purchased. There are more than 30 members in this sheep club. Mr. Knox took notes at 7 per cent interest from those who were not able to pay cash for the sheep. Two boys taking the vocational agriculture which is managed by Nattie Knox, a six ewes each as their home projects, nephew of the owner. He has about under Mr. Crow's direction. This dis-70 high-grade Shropshire ewes. These tribution thru the organization of the



F. WYATT MFG. CO., 902N. Sth ST., SALINA





YOUR crops can't wait and the more time spent on them the bigger the vield will be. Garford ability to render instant service during rush seasons gives you more time and extra profits.

Lima, Ohio

Results of a recent investigation among four thousand Garford owners show 97.6% are 100% satisfied-proof of Garford Low Cost Ton-Mile.



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JUMBO the Motor Truck for Farmers

The Jumbo Highway Express is all-around-the-farm equipment. Of course, it does your road hauling-carries 4000 pounds safely at 25 miles per hour-almost as quickly as you go in your passenger car. But a Jumbo saves time and labor on the every day jobs, too.

It's speedy—goes there and back before horses get well started.

It's convenient-no currying, harnessing, or backing around hooking up-just step on the starter and you're ready to go. Stops just when and where you want it. to, stands anywhere without hitching.

-Economical-eats only when it works, goes further with bigger loads, faster and cheaper.

Never gets tired-pulls a hay loader through heavy, tangled alfalfa all day long at steady, even speed, then takes a shipment of stock to town after supper.

BRIEF SPECIFICATIONS AND EQUIPMENT

Motor, Clark Internal Gear Axle, Clark Steel Wheels with Pneumatic Tires, Power Tire pump, Electric lights, starter, horn, generator, and storage battery. features. No e. Steel cab with 3-man seat, except the body.

Standard 56 inch tread, Buda heavy cushions, fore doors and disappearing curtains opening with doors, clear-vision windshield, motometer, hubodometer, pigtail tow hooks, spring draw bar, and many other features. No extras to buy

> Write for full information on Jumbo Trucks and name of nearest dealer.

NELSON MOTOR TRUCK CO., Saginaw, Michigan Also makers of the famous line of Jumbo Farm Engines.

Wichita Automobile Co., Wichita, Kansas, Distributors



Feeders Meet at Lincoln

Nebraskans Find Silage Cheapens Beef Production BY JOHN W. WILKINSON

URING the past year a num- quently, the figure of \$1.40 a bushed ber of interesting feeding ex- should answer reasonably well. periments have been conducted at the Nebraska Experiment station in Lincoln in a serious effort to de-termine how to produce cheaper meat. For several years the Nebraska Ex-periment station has been endeavoring to find feeding rations that would produce pork, mutton and beef for less money than corn and alfalfa. These experiments were continued this year and the results were made public at the annual state meeting of stock feeders recently held at the Nebraska university. Interest centered in the cattle feeding experiments.

Most feeders lost money this year, according to Prof. H. J. Gramlich, chairman of the department of animal husbandry in the Nebraska university who was in charge of the feeding experiments. Many also lost money last year, due in part to a big slump in the price just before they had planned to was valued at, and the gain cost \$20.9 sell. A great many, however, were not discouraged and fed this year, only to lose money again.

For several years corn and alfalfa have been recognized as producing only high priced meat. In fact many farm-ers have fed these feeds at a loss, and the time may be near when substitutes must be found in order to maintain the meat supply. Recognizing the situation, the Nebraska Experiment station several years ago began experiments in an effort to substitute cheaper feeds in fattening livestock.

Shorthorn Steers Used

Fifty steers were used in this experiment and they were purchased upon the Omaha market October 28, 1919. The purchase weight was \$19 pounds and the cost price \$10.40 a hundred-weight. The cattle were mostly grade Shorthorns of medium quality with quite a few on the long yearling order. The week these cattle were purchased represented one of the high points in the feeder market and the same cattle could have been purchased later at a considerably lower price.

The average weight in Omaha the day these steers were purchased was 819 pounds. Owing to a delay in transit, they were on the cars 48 hours and weighed when unloaded at Lincoln, October 30 an average of 755 pounds. This represented a shrink of 64 pounds from purchase weight. Twenty-four hours after_unloading, they weighed 800 pounds and at the time the experiment was opened, 828 pounds. Alfalfa hay was provided during the two weeks between date of purchase and opening of experiment and charging this against the cattle, together with the expense of purchasing and shipping, and crediting the steers with the gains made during this period, the initial cost a hundred pounds against the ex-periment is \$10.90.

How They Were Fed

The cattle were divided into five equal lots for the feeding tests that were conducted. Lot 1 was fed Ne-braska's standard ration of corn and alfalfa hay, beginning with a small feed of corn and all the alfalfa they cared to eat. The corn was gradually increased till a full feed of grain was given daily. No oil meal was fed to this lot. The average daily consumption by this lot was 16.9 pounds of corn and 12.1 pounds of alfalfa. Lot 2 was fed like lot 1 except that corn silage was added to the ration for 120 days which, of course, reduced the pounds of corn, 27.7 pounds of silage and 3.7 pounds of alfalfa. On these rations lot 1 gained 2.54 pounds a day, a steer, and lot 2, 2.26 pounds.

Corn was charged at \$1.40 a bushel: molasses meal, \$40 a ton; oil meal, \$80 a ton; hominy, \$2.50 a ton; corn si-lage, \$8 a ton; and alfalfa, \$20 a ton. The prices of feeds as charged are reasonably fair for the entire period in which the cattle were fed. During the first part of the experiment corn was somewhat cheaper, however, dur-ing the last 30 days, the market price of corn has been higher, and conse-

After allowing for the gains made by hogs following the steers and de-ducting all costs for feed, interest ou the investment in the cattle, marketing expenses, and other items of expense, the steers of lot 1 lost \$34.19 a head and those of lot 2, \$30.09. This showed that silage cheapened the ration, although the ration, although the ration of the ratio of the r the silage steers were valued at \$11.00 a hundred while the corn and alfalfa steers were valued at \$12 on account of showing a slightly higher finish.

Lot 3 was fed like lot 2 except that alfalfa molasses meal was added to the ration. The average daily con-sumption of feed was 11.1 pounds of corn, 4.2 pounds of molasses meal 28.1 pounds of silage, and 2.5 pounds of alfalfa. These steers made a daily gain of 2.39 pounds and lost \$28.32 a hundred, as compared with \$20 a hundred for lot 2 and \$21.46 for lot 1.

In lot 4. linseed oil meal was substituted for molasses meal and the ration fed was 11.1 pounds of corn, 2.5 pounds of oil meal, 28.4 pounds of silage and 3.3 pounds of alfalfa. On this a daily gain of 2.43 pounds was made at a cost of \$21.59 a hundred and with a loss of 34.27 a steer. These steers were valued at \$11.75 a hundred.

Lot 5 was fed like lot 4, except that hominy feed was substituted for half the corn ration. The following ration was fed this lot: Five and six-tenths pounds of corn, 5.4 pounds of hominy feed, 2.5 pounds of oil meal, 284 pounds of silage and 3.2 pounds of al-falfa. The gain was 2.35 pounds a falfa. The gain was 2.35 pounds a day; the cost for 100 pounds of gain, \$22.27; the appraised value, \$11.85 a hundred, and the loss a head, \$35.74. At the same price a pound, therefore, hominy feed was slightly less valuable than corn.

Comparison of Losses

Many feeders have marketed cattle this year which they fed only three months while others kept and fed their cattle for four or five months. In order to ascertain what kind of finate cial showing the cattle would have made had they been marketed at such times they were weighed and appraised at the end of the 84-day period and again at the end of the 120-day period. As the cattle on an average were ap praised at \$11.40 a hundred if the steers had been sold at the end of the 84-day period the average loss off every steer would have been \$14.22 The gains during this first period cost on an average of \$16.68 and amounted to 2.36 pounds a head daily. During the following 36 days, the cattle made an average daily gain of 2.10 pounds at a cost of \$26.42 a hundred, or al-most \$10 a hundred more than the gains made during the 36-day period, the gain for the 120 days showed to be slightly less than for the 84 days, likewise, the cost of gain is about \$3 higher. The cattle at the end of 120 days were appraised at an average of \$12.70. On this basis, the average loss a piece on the 50 steers was \$9.55. It might be mentioned that the 120-day period terminated at a time when the cattle market was in very fair con dition and these steers were appraised at an average of \$1.30 a hundred more than the appraisal put upon them 36 days before. This, together with the fact that the hogs did well during this period, tended to reduce the loss head even if the gains were somewhat

A careful study of the various feed ing tests reveals that all of the sleeps figure in the negative, but at the same time there is not a great deal of loss Lot 1 fed the so-called standard rat tion of corn and alfalfa lost somewhat more money than lot 2 fed corn, si-lage and alfalfa, altho gaining con-siderably more a day and selling for (Continued on Page 44.)

May 8, 1920

the United States. They desire to learn. They are oming to the Midwest to get a limpse into the greatest farm market a the world. All are eager to make he journey, which will cover 5,200 niles and will last two weeks. These hen are to be the guests of Sen. Arthur apper and The Capper Publications. It was because of their deep interest It was because of their deep interest It was because of their deep interest n the agricultural states of the na-ion, and their desire to see at first and the business and farming de-elopment of this territory, that these epresentatives of great advertising geneics were invited to visit the Cap-er Farm Press territory. The invita-to was eagerly accented on was eagerly accepted.

ion was eagerly accepted. On May 8, the 16 agency rep-esentatives, personally conducted by oseph Kunzmann, New York manager f The Capper Farm Press, and John Boyd, and Philip Zach, of the New York staff, will leave New York City. It Chieago the party will be enter-ained at the Chicago Athletic club y J. C. Feeley, manager of the Chi-ago office of The Capper Farm Press.

Garden of Billions

Then to the gateway to the "Garden f Billions." May 10 the party will each Kansas City, Mo., the great petropolis of the Midwest with its hetropolis of the Midwest with its remendous business in livestock and gricultural products. Here the vis-tors will be met by Marco Morrow, ssistant publisher, B. P. Bartlett, hief of promotion and merchandising lepartment; Frank G. Odell, head of he research bureau, and others from he Topeka offices, who will accom-any the party on this trip. R. V. Mitchell, manager of the Kansas Bity office of The Capper Farm Press, fill be in charge of the program at Cansas City, Mo., where wholesale and

ansas City, Mo., where wholesale and annfacturing plants and the great ansas City stockyards will be visited. From Kansas City the "Big See" trip oute leads first to Topeka: Here the nitre day of May 11 will be spent touring the city, visiting the stores, holesale houses and manufacturing lants, and in inspecting the Capper while burgs block to reasing ublishing plant, the largest organiza-lon of its kind west of Chicago.

In the evening a private Pullman fill carry the party, which will con-ist of more than 30 men, to Okla-oma City, Okla., where the party vill be joined by M. L. Crowther, nanager Oklahoma City office; John fields, editor The Oklahoma Farmer, Nklahoma section, The Capper Farm ress, and W. A. Conner, assistant ditor. In the evening a private Pullman

From there motor cars will take the isitors and the members of the Capper Isitors and the members of the Capper taff. to El Reno, Yukon, Kingfisher, Dever, Hennessey and Enid. The party ill remain overnight at El Reno. Fom Enid a private Pullman will ake the visitors to Watonga, where he famous H. C. Lookabaugh Short-forn herd will be seen, to Geary and ack to El Reno and on to Wellington. ack to El Reno, and on to Wellington, 5. The party will be joined here by event members of the Topeka office or the motor trip thru Kansas.

Cover Kansas in Cars

The Kansas tour will be made in otor cars exclusively and the visitors ill be given an unusual opportunity become intimately acquainted both th the country thru which they pass and with the people living there. From ellington the route leads to Arkan-s City, Winfield, Augusta and Wichthe which will be visited Saturday, day 15. In all of these cities con-idenable time will be spent in visitindustrial plants and retail stores possibly several farms in the icinity.

The feature trip will be a motor car The leature trip will be a motor the de from Wichita to Hutchinson for Teakfast on May 16. Then the party fill drive on to McPherson, Lindsborg, saling the second the second the alina and on to Manhattan where the ight will be spent. The next day,

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baggage. From Topeka a private Pullman will go to Falls City, Neb., arriving there Tuesday, May 18, where the party will be joined by W. M. Temple, manager of the Omaha office, A. G. Kittell, editor Nebraska Farm Journal, Nebraska section of The Capper Farm Press and J. O. Shroyer, associate editor. Motor cars will carry the party to the Shroyer farm, near Humboldt, for breakfast and then on thru Pawnee City. Beatrice. then on thru Pawnee City, Beatrice, Lincoln, Waverly, Ashland and Gretna to Omaha.

Wednesday, May 19, will be spent in Omaha visiting the stockyards, whole-sale houses and retail stores. That That night the "Big See" trippers, will go to Columbia, Mo., by rail, arriving there Barber Advertising Agency, Boston; Thursday, May 20. Here the party A. L. Lewis, J. Walter Thompson Co.,

the provide the pr

Let's double the alfalfa acreage.



WHEN some of your grain comes up short and stunted, especially on dry, gravelly knolls, and some of it grows tall and heavy, so that it lodges and tangles-then you have a harvesting problem-unless you own a McCormick, Deering, or Milwaukee Grain Binder.

With these binders it is possible to cut 134-inch stubble — get right down close to the ground. The curve of the guards and wide range of platform adjustment permits doing this. And the reel is designed to handle grain in any condition. It can be lowered, raised, swung forward or thrown back almost instantly to accommodate short, long or tangled grain. The binding attachment can be adjusted quickly for short or tall grain, and has a band-placing range of from 10 to 24 inches from the butt of the bundle.

The names McCormick and Deering and Milwaukee are favorably known wherever there is agriculture. They are guarantees of high quality and operating efficiency. Almost 90 years of harvesting machine development and satisfactory service in the fields of the world stand behind them.

See your nearby International dealer now in regard to your binder for early delivery. Place your reliance also on McCormick, Deering, or International high-quality twine. Meanwhile, may we send you a descriptive catalog showing latest improvements and features in the world-standard harvesting machines?

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Washington Comment An Interesting Review of Events of National Interest

By Senator Capper

than duplication, or even triplication— in hand or we have a panic, prices will actually a multiplication of identical not be brought back to a normal level. is unbelievable.

Attention has been directed afresh to this wicked waste of public money with some 30,000 before the war, materials increased more than 8 per Senator Smoot has been active along cent over February prices. Clothing similar lines. He repeatedly has di-rected attention to the vast number of ington and elsewhere, and he has now followed these suggestions with the in-troduction in the Senate of a joint time of the profileers. troduction in the Senate of a joint resolution creating a joint committee on the reorganization of the administrative branch of the government. If this resolution is passed during the present session of Congress, the joint committee will hold sessions between the date of its appointment and next December, when it will report to Con-gress legislation designed to co-ordi-nate and redistribute the various services performed by the overlapping bureaus and offices.

This is one of the most needed re-forms in our government. Action along this line, combined with a budget system, as I have urged continuously since coming to the Senate, will save the taxpayers of the country many mil-lions of dollars annually. There must be an end to the present wicked waste and extravagance, and government ad-ministration must be placed on a sound basis of business principles.

Jail the Profiteers

The overall club movement has hit Washington, along with the rest of the Only one Congressman, Repcountry. resentative Upshaw, of Georgia, had the hardihood to appear on the floor alls and posing for the movies in front posing heavier and heavier taxes on its of the Capitol. The South Carolina war profiteers. of the House in overalls, but Senator Senator made a vigorous speech attacking the profiteers, especially the elothing profiteers, and urging people to wear out their old clothes, patching them so long as they are wearable at all, and likewise their shoes. These suggestions are well enough in their way, but they only scratch the surface of the trouble. Extravagance plays its part, and no doubt an important part, in present high prices. People should economize, should wear their old clothes just as long as possible, should reduce consumption wherever possible. That will help in bringing down prices. But high prices are due chiefly to the outrageous and conscienceless profiteering that began during the war and has routinued and grown worse up to this very hour. What is chiefly needed is a profiteer in jail in every community in the country. If Attorney General Palmer would jail these law-breakers and make profiteering as unhealthy as and make profiteering as unhealthy as ward stopping profiteer

prices. It is silly to attribute the high asked for by the next of kin. prices of meats to over-consumption, a little more than half the price they brought a year ago, and dressed meats

government is one of the great tice of the long list of middlemen in alled attention before to the duplica-tion of activities in the government de-ducer and consumer. Until the gov-partments. In some cases it is more enament takes this situation rigorously

Prices Continue High

During the month that ended March to this wicked waste of public money and the energy of government employes 15, the cost of 22 articles of food used by two prominent public men. Gov-in comparing prices showed a decrease ernor Lowden of Illinois dwelt at of 1-16th of 1 per cent from the cost of length on this subject in his recent the same articles in January, when the speech before the National Press club in Washington, as in speeches at many other places in the country. In Wash-of commodifies other than foods were instan alone there are more than 100ington alone there are more than 100,- even higher in March than in any pre-ono government employes as compared vious month. Lumber and building with some 30,000 before the war. materials increased more than 8 per

Benefits for Soldiers

Indications now are that Congress not only will pass soldier-benefit leg-islation, but that means will be devised to derive the revenue necessary to carry it into effect from the profiteers. During the war 23,000 Americans became millionaires, according to the records of the income tax department. War-profiteering was so successful in drawing the profits of the war into one big pot that 67 Americans now own 8 billion dollars of the national wealth. These are the people who should pay the cost of bonus legislation.

While the boys were fighting to make America safe from the on-slaughts of the Hun, these men were piling their coffers full with good American dollars. By all the equities the men who grew rich out of the war should bear the major portion of the burden of remunerating, in part at least, the men who fought the war. The debt never can be paid in full, but certainly the war profiteers can afford to pay and should be made to pay whatever Congress decides shall be given the service men in the way of deferred payment for their services.

The character of this legislation has not taken final form, but sufficient progress has been made to make certain that something will be done along this line. I hope to see the service men given the option of accepting a cash "bonus" or its equivalent in the form of an education or a loan with which to make a start toward the acquisition of a home, as favored by the American Legion. I think the chances are very good for the approval by this Congress of the Legion program, or something along that line. The advice of the soldiers, sailors and marines themselves has been sought thru their various organizations and will have considerable effect on the character of the legislation.

Return Soldier Corpses

Removal of the American dead from and make profiteering as unhealthy as within the fighting zones in France for horse-stealing or any other kind of transportation to the United States within the believe it would go a long way will begin after September 15, under agreement between It is absurd to attribute robber and French governments. The War De-prices to the extravagance of the peo- partment, which at first was opposed an when the people of limited income, to this course, has been forced by pubwho constitute the great majority, are lic opinion to yield to the demands of ompelled to deny themselves needed bereaved parents, but only such bodies

There has been much opposition to when cattle and hogs are selling at but the return of America's soldier dead, and in the propaganda put out to combat the movement it even was charged in some instances are selling at even that the undertakers of the nation higher prices. The lower prices of the sought to stimulate the return of the live animals are no more due to over- soldiers' bodies in order to profiteer production than the higher prices of off the relatives of the soldiers. How

EORGANIZATION of the ad- meat are due to over-consumption. much truth there is in that assertion ministrative branch of the Both result from the unchecked prac- may be questioned, but certainly there was no justification for denying be-reaved parents the right to demand the body of a fallen son and have him interred in the home cemetery if they saw fit.

Daylight Saving

Spain is another country that has seen the folly of readjusting clock time to accommodate the city golf players and to the disadvantage of the farmers and industrial workers of the country. In response to strong appeals from the agricultural interests and the railroads the Spanish cabinet issued a proclamation declining to adopt summer time which is the European name for socalled daylight saving. Congress hav-ing twice abolished the daylight-wasting scheme it is believed the attempt to fasten it on the country is dead for this Congress, but after the national election is over and a new Congress is elected, it may be expected that the wasters again will attempt to improve on nature and fasten this artificial, time-wasting system on the nation. I am glad to say the Kansas delegation will never stand for a return to the iniquitous daylight system. The farmers of the country must keep their rep-resentatives in Congress advised of their unalterable opposition to this de-

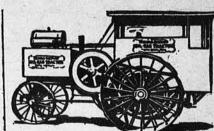
structive and wasteful scheme.

Athen Capper

Washington, D. C.

To Aid the Sheep Raisers

Farmers Bulletin No. 810, Equipment for Farm Sheep Raising, has just been issued in a revised form by the gov-ernment. You can obtain a copy free from the United States Department of Agriculture, Washington, D. C.



Burns Kerosene Drives Like a Steam Engine

"Give me a gas engine strong enough to run a separator," say thousands of threshermen. Here it is-the

Nichols-Shepard **Oil-Gas Tractor**

It's the result of 72 years' experience in building threshing machinery.

When gas engines first came into general use, owners wanted to use them on threshers as well as other belt machines about the farm. But the usual gas engine was too light. It lacked the power needed for keeping up speed in the thresher.

We have answered this for you in the design of this Oil-Gas Tractor. Its fly-wheel is extra large and heavy. It insures not only a steady running machine but reserve power not stalled with overfeed-ing, wet bundles, etc.

Besides being a good thresher power plant it is a practical tractor for general tractor work. Burns kerosene or distillate.

Write for Circulars NICHOLS & SHEPARD CO.

(In Continuous Business Since 1848) Builders Exclusively of Red River Special Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines Battle Creek, Mich.



Instant Postum still sells at the same low price as

before the general rise in costs

-and great is the number of families who now use this table beverage in place of coffee.

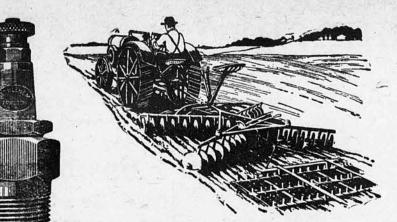
Attracted to its use by continued low cost, they found its agreeable coffeelike flavor much to their liking.

With no health intent behind their action they discovered better nerves followed the change.

All Grocers sell Postum and your trial is invited

"There's a Reason"

Made by POSTUM CEREAL CO., Inc. BATTLE CREEK, MICHIGAN



14

Spark Plugs and Harrowing

WHEN you're out in the field, far from the barn, and one of your spark plugs starts to "miss" -you have to hold up the harrowing till you can put in a new plug. Valuable time lost.

The special construction of Bethlehem Spark Plugs is your best assurance against such delays. In the de Luxe Tractor Plug, the mica is wrapped around the center spindle, then reinforced with mica washers pressed into a granite-like whole—the only kind of tractor-plug that can "stand the racket."

The great International Harvester Company, after exhaustive tests, has adopted Bethlehem plugs as standard equipment. Bethlehem Automobile and Truck Plugs are equally dependable. Studebaker, Marmon and 48 other manufacturers equip with Bethlehem.

Write for free copy of "Hit or Miss?", which tells you what you want to know about spark plugs.

BETHLEHEM SPARK PLUG CORPORATION E. H. Schwab, President Bethlehem, Pa.



"They Pull You Through"

Factories at Kansas City, Mo., and Fort Scott, Kan.



Concrete Tile for Drains

Many Flat Lands May be Made Profitable BY H. B. WALKER

JUST as a chain is no stronger than its weakest link, so is a tile drain-age system no better than its weakest point. This weak point may be a broken or disintegrated tile which permits silt to enter the drain and clog up the entire drainage system. Land owners who install an under-trainage system cannot afford to take chances with inferior tiling material, for no matter how well the work is done if the tiles are not of good qual-ity, trouble surely will come sooner or later. Just to set the drain stant and does enter at the joints which in the average farm tile line occur at in-tervals of 1 foot along the drain. These _open, joints afford sufficient drainage system without depending upon the porosity of the tile to permit water to enter. later.

Cement Mas been used for a century or more in the construction of water conduits, but it has only been during the past 20 years that concrete tiling has come into general use for farm drainage projects in the humid sec-tions of the United States. When properly manufactured, concrete tiles are very satisfactory for underdrain-age, since they fill the essential re-quirements of a good underdrain. They are, first of all, true to shape. The modern tile is circular in cross section and for the usual farm size it is manufactured in logaths of one is manufactured in lengths of one foot.

Uniformity is Necessary

In order to construct a good tile line each individual tile must be uniform in diameter, straight in length, and with parallel and straight cut ends. The concrete tile fills these requirements admirably, since the man-ufacture of the product requires that each individual piece be made in molds of uniform diameter and length. Furthermore, since the process of curing does not require burning or direct application of heat, there is no warp-ing of the pieces after the forms or molds are removed.

Many professional tile layers, prefer to lay cement tile, because of this trueness to shape which makes them readily fit into a well prepared trench. For the same reason, cement tiles, be-cause of their great uniformity, are well suited for mechanical trenching machines which dig the trench and lay the pipe line at one operation.

sist the pressure of the earth above it as well as the loads which pass over it. With the advent of the tractor, and other heavy power machinery for the farm, more care than ever is necessary to get a strong pipe line which laid in the ground. will resist these heavier loads. Naturally only first quality farm drain tile sholdd be used. Farm drain tile of first-class quality should be strong enough to support at least 800 pounds a foot of length under a standard test. Furthermore, the walls of the tile should be of sufficient density that no individual piece will absorb more than 12 per cent of its weight of water when immersed.

Water Enters at Joints

A solid, dense, tile wall indicates A solid, dense, the wait indicates strength, imperviousness and good quality. On the other hand, a porous field are a ment which for a ford strength, and a lack of quality. A porous tile is always a poor tile since it is not dense enough to afford strength to resist crushing, and being absorbent of water it will than we deteriorate randow when the action of Ledger. deteriorate rapidly under the action of

Must be Constructed Properly

Strength and density in concrete tiles are obtained only when the followed. For this reason the pur-chaser of cement tiling should be certain that his tiles are properly made. Unfortunately, concrete tiles have Unfortunately, concrete tiles have come into some disrepute, because in the early use of this material, farmers, were encouraged to manufacture their own product. Experience has shown that the farmer should not attempt to manufacture his own tile. He has not had the necessary experience and is not supplied with the special equip ment required in the construction of good tile. When it is desired to use concrete tile the purchaser should get his material from a reliable concrete products plant which is properly equipped to manufacture first quality tiling. tiling.

Such plants are to be found now in a number of localities and their prod-ucts are becoming more standardized each year. In making these purchases all tiles should be bought with the un-derstanding that the material is subject to standard methods of testing 10 determine quality and strength. Material which will not meet the standard specifications for drain tile of the American Society for Testing Materials should be rejected.

Points to Consider

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There is no question whatever, but what concrete tiles are satisfactory for use on farm drainage systems in Kansas if the proper materials are inthe pipe line at one operation. Secondly, cement tiles, when prop-erly manufactured, are strong and dense and give a smooth flow line for the water. A good tile must have sist the pressure of the earth above it as well as the loads which pass over smoothness of interior finish, together with the uniformity of diameter in the concrete tile, produces a first-class tile line when the pipes are property

The fact that cement tiles have failed is no argument against their use. Similar failures have occurred with other materials, but the fact that improperly made tiles have failed should serve as a warning to purchasers that a tile is more than just a tile. There are good tiles and poor tiles. A poor tile is expensive at any price A poor the is expensive at any price while a good tile is an insurance to the permanency of the drainage im-provement. The Kansas farmer need not hesitate to install good concrete tiles in his underdrainage system, for good tiles properly installed in the wet field are a permanent farm improve-ment which will yield a high return from the investment.

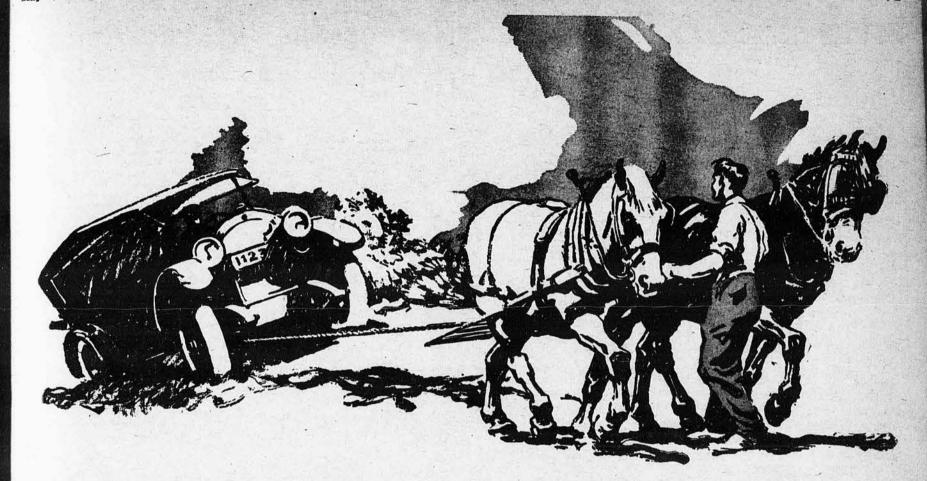
Holland must desire the kaiser more do.-Philadelphia Public Ledger.



Low Flat Lands in River or Creek Bottoms May be Drained by Means of Good Concrete Tiles and Made to Yield Large and Satisfactory Profits.

May. 8, 1920.

KANSAS FARMER AND MAIL AND BREEZE



You get more work out of a manila rope that has excess strength

"Blue Heart" manila rope carries a guarantee to deliver it

WHEN the car's stuck-losing time-then you truly appreciate owning a rope that's strong enough to drag it out of the mud.

"Blue Heart" manila rope stands desperate pulls which would break ordinary rope!

It's guaranteed to deliver more strength than specified by the United States Government Bureau of Standards.

Only long wearing, tough manila fibre, the cream of the crop, can be spun into such strong cordage!

And yet the cost is no more than that of ordinary rope!

"Blue Heart" manila is not merely a name-it's the way, you can identify every foot of this new cordage!

Simply grasp hold of any piece of it, untwist the strands, and you can easily ee the blue trade-mark which assures you long wear and high strength.

A new rope for you if "Blue Heart" doesn't make good

Hooven & Allison "Blue Heart" manila rope is duranteed to equal the yardage and exceed the reaking strength and fibre requirements lately specified by the United States Government Bureau of Standards. Any "Blue Heart" manila rope found to be not as represented will be replaced.

Adulterations and substitutions cannot be detected by the "feel" or the naked eye. You have to depend upon the honesty and skill of the maker for good rope. You cannot be protected unless there is a mark like "Blue Heart" in the rope which guarantees its service to you!

The public has been confused about ropes

There are numerous fibres used in rope making, of varying strength and durability. Manila, the strongest, longest-wearing fibre, has any number of substitutions which look very much like it. What often

looks like excellentrope will suddenly snap or frazzle to pieces when comparatively new,

but your money's gone when you discover the adulterations! The safe way is to buy a

guaranteed manila rope, the "Blue Heart' kind.

"Blue Heart" kinks less; is easy on the hands; resists water

"Blue Heart" manila will wear twice as long as low grade rope. Water has less effect on it than on ordinary cordage.

Easy bending and pliable, "Blue Heart" knots tightly, and is ideal for hitch and tie purposes. It is made from glossy, smooth-surfaced manila and is exceptionally easy on the hands.

Ask your dealer for "Blue Heart" manila rope. If he cannot sup-ply you, write us. The Hooven & Allison Company, Xenia, Ohio

This is our



"Red Heart" sisal rope

When a lower-priced cordage is desired, try "Red Heart" sisal rope. Made from the best sisal fibre with the same skill and care we give to our "Blue Heart" manila.

Write for sample of rope-free!

Only by seeing the fine material and workmanship that goes into our ropes can you appreciate why we can guarantee them. Get a free sam-ple today. Ask your dealer for "Blue Heart" manila rope. If he cannot supply you, write The Hooven & Allison Company, Dept. us. 85 Xenia, Ohio.

For purposes where the great strength and long-wearing qualities of "Blue Heart" manila rope are not required, use H. & A. rope made from one of these less expensive fibres:

sive fibres: "Red Heart" identifies H. & A. rope made of sisal fibre "Green Heart" identifies H. & A. rope "Purple Heart" identifies H. & A. rope "Purple Heart" identifies H. & A. rope made of mauritus fibre "Pink Heart" identifies H. & A. rope made of New Zealand fibre "White Heart" identifies H. & A. rope made of hemp fibre "Golden Heart" identifies H. & A. rope made of jute fibre

Mail this coupon

Hooven & Allison,

Department 85 Xenia, Ohio.

Please send me free samples of "Blue Heart" manila rope and "Red Heart" sisal rope.

My dealer is

Percherons are in Demand



16

UDGE tires by results-by the mileage figures they pile up. It's the safe, sure way of measuring true value.

Judge the Ajax Road King on this basis and you'll know why so many farmers choose it over every other make.

"Shoulders of Strength"

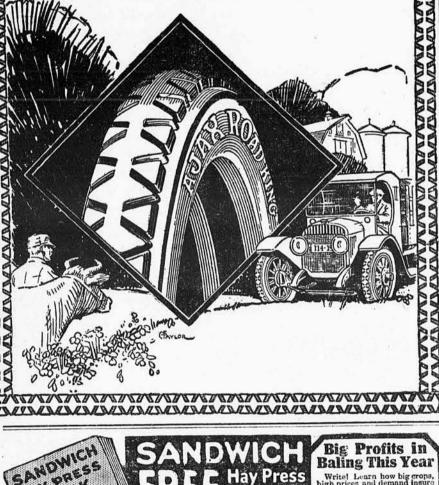
The Road King is the Ajax fabric tire with triangular anti-skid tread design. The tread is braced and reinforced by Ajax "Shoulders of Strength"-an exclusive Ajax feature. They give the extra stamina which is particularly important to the man whose car must travel both good and bad roads.

The Road King wears well. It piles up splendid mileage figures. It's the companion of Ajax Cord, Ajax Tubes and Ajax H. Q. (High Quality) Tire Accessories.

Sold by good, reliable dealers who display the Ajax sign.

AJAX RUBBER COMPANY, Inc. **New York**

Factories; Trenton N. J. Branches in Leading Cities





This Bible is about the size of a postage stamp and is said to bring good luck to the owner. Sent postpaid for only 10 cents in stamps or silver.

Smallest Bible on Earth This Bible is about the size of a postage stamp and is said to postgaid for only 10 cents in postgaid for only 10 cents in NOVELTY HOUSE, Dept. 10, Topeka, Kar.

High Prices are Offered for Draft Animals

BY ELLIS MCFARLAND Secretary Percheron Society

who produces superior Percherons. The who produces superior Percherons. The whole Percheron business has made a remarkable change in the last 12 months and even greater changes than ever are expected before 1921 passes into history. Very high prices, indeed, have been paid for Percheron mares in the last six months. Up until October 1, 1919, \$3,500 was the record price for a Percheron mare in this country. into history. Very high prices, indeed, have been paid for Percheron mares in the last six months. Up until October 1, 1919, \$3,500 was the record price for a Percheron mare in this country. Since then, the grand champion mare at the 1919 International changed homes at \$5,000. At public auction, the reserve senior champion mare of the same show was sold to a small breeder for \$4,800. The reserve grand cham-pion mare, a yearling at the 1919 In-ternational was sold for considerably more than \$2,000. The first prize 2-year-old filly at the 1919 Ohio Peryear-old filly at the 1919 Ohio Per-cheron Breeders' Show went to a new home, at a figure nearly reaching the \$2,500 mark.

Higher Prices for Draft Horses

Since the beginning of its history, the livestock business has been chang-ing periodically. For the last five years, prices on meat producing animals have been going higher and higher and values on horses have been go-ing lower and lower. Now the pendu-lum is swinging the other way. Prices, unheard of before, have been paid for draft geldings in the last 30 days, and those best informed tell us that values will continue to rise for several years to come. First rate draft geldings are bringing fully as much now, as the average kind of Percheron mares have brought any time in the last five years, and a great deal more than most stallions have been bringing.

All of us agree now as to the way the story will end. The draft horse has come back sooner than many of us anticipated, and we are forced to admit that the average farmer is not ready to meet the situation. In most instances, he has permitted himself to be deceived by the popular chatter of the hour instead of being guided by of the hour instead of being guided by the experience of breeders who are old enough to have passed thru these peri-ods of depression. The horse business has always known its good and bad times, as well as every other phase of the livestock business. The chances are that they will continue in about that same way. The serious point of that same way. The serious point of the situation is that most farmers have made a poor guess as to when the draft horse business would come back, and are now repenting, but it is too late. They should have been raising a few high class draft colts each year, and they would not have been caught with no horses to meet an unlimited demand at record breaking prices.

Value of Good Sires

The old saying that "a sire is half of the herd if he is a good one and all of attention to this work. the herd if he is a poor one" was never This changing era more significant than today. It deter-breeding is making pos more significant than today. It deter mines the destiny of the majority of stration before the American people Percheron breeders. Our breeeders the opportunities that lie within reach need good sires more than anything of great breeders. There is just as need good sires more than anything of great a chance now, as there ever was here. So fow of our Percheron breeders appreciate the value of a great in developing noted breeders who will sire. It would be better and far cheap- mean to the Percheron horse what sire. It would be better and far cheap- mean to the Percheron horse what er to ship a mare a thousand miles to Booth and Bates and Cruickshank breed her to the sire with which she mean to Shorthorn history. The op-would "nick" best, than to breed her portunity for which we have been wait to an ordinary stallion. It is not the ing, is here.

E ARE FAST approaching an number of Percherons one produces age when there will be an extra that determines the money one makes, large premium paid to the man but it is the number of high class in. dividuals one raises that counts. It is easy enough to produce so many in-ferior ones that the good ones cannot pay the bill, no matter what prices they bring. The only safe policy for any breeder to follow is to eliminate, in so

that were all sufficiently good to keep for breeding purposes. That is a job humanly impossible, and every Per-cheron breeder might as well acknowledge that fact. The longer he denies it, and the longer he hesitates to con-duct his breeding operations accordingly, the longer his success will be postponed.

Proper Mating is Essential

It is a peculiar fact that many a breeder has failed to register among those rated as successful, because he had the wrong idea of what constituted a purebred or registered animal, or of his responsibility in directing the breeding powers of that animal. The mere mating together of animals whose pedigrees are represented on hand-one pieces of paper, is no indication that he is a successful breeder. No animal is so well bred that he has no faults. The wise breeder, the one who makes the most from the animals with which he has to work, is the one who tries to mate his animals in such a way as to overcome as many defects as possible. No stallion, no matter how good, is sufficiently perfect to mate equally well with any large number of mares. The greatest Clydesdale breeder in the world has no stallion of his own, for he recognizes that no matter how goed a sire he might purchase, the stallion

matter how much difficulty is experi-enced in getting to breed to them. A good mare, rightly mated, is a great credit to any breeder and if wrongly credit to any breeder and if wrengly mated, her year's work will be a dis-credit to that man, that will last so long as that offspring or any of its descendants live. This matter of live stock breeding is a serious business that has always rewarded the best ef-forts of the best thinkers among those man who have depended their time and men who have devoted their time and

in Percheron, This changing era in Percherolo breeding is making possible a demonstration before the American people of



Percherons. Very High Prices Have Been Paid at Recent Sales.

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Tom Meneals Answers

Information About Treaty

Please give the provisions of the Peace Treaty. 2 Name all the representatives of the Peace Conference from the United States. 3 Name five of the most important gen-erals of the Great World War. C. E. K.

erais of the Great world War. C. E. K. 1. The Peace Treaty comprised a little more than 80,000 words. With the limited space at my command, I can scarcely give you its provisions. It is quite possible, if you will write to your member of Congress, or to Senator Capper, that they will send you a pamphlet containing the Peace reserve, or one containing the princi-Treaty, or one containing the princi-

pal provisions of the same. 2. When President Wilson went to France, he took with him as his advisers between 1309 and 1400 persons. I presume in a way these persons were representatives of the United States, but I have not and cannot obtain their names. As a matter of fact, however, the only real representative of the United States at the Paris Peace Treaty was President Wilson himself.

3. The two leading French gen-erals were Marshal Foch and Marshal Joffre; the leading British general was Marshal Haig; the Commander in Chief of the American forces was General Pershing; and the leading generals on the German side were Von Hindenberg and Ludendorff.

Income of an Estate

Income of an ESCATE Where the income of an estate is left to widow, have the heirs any authority as: the renting or managing of the estate? a the widow appoint one of the heirs as agent and she and he run the estate to themselves without making any account what the estate makes or how it is spent, the rest of the heirs? The estate goes the heirs at the widow's death. HTEIR.

The widow in this case has a life state. As to whether she is obliged o render an accounting depends upon he terms of the will. If the will pro-ided that she is to have an income om the estate and did not provide that she is to render an accounting, he will not be obliged to do so. But if the heirs of the estate could show that she was wasting it, they would have a right to enjoin her from doing 80. What I mean by this is, not that they could enjoin her from spending the income from the estate, but if she was committing waste such as destroying the buildings or cutting down imber or doing some act which would estroy the value of the estate itself, a could be enjoined from doing so. So long as she is entitled to the inone of the estate to spend as she leases, she can appoint an agent if so desires.

Renter's Rights

Kenter's segmes What right has a renter if he is on the for 15 years and always kept the "What right has a renter to improve-What right has a renter to improve-that he puts on the place without d owner about putting them on? If the owner who has no lease desires the renter off the place, how soon he notify the renter before he has to over the renter of the place.

Your first question is so indefithat I do not know how to an-it. The renter in this case is a from year to year and has the to remain on the place until he "" written notice for at least 30 prior to the expiration of his year.

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If the renter places improveon the land with the consent of owner, I would say generally that has the right to remove such im-ovements when he leaves the place. My answer to question 1 an-question 3. The landowner have to give 30 days' written to the renter to vacate.

Fencing Section Line

Fencing Section Line a man a right to fence up a section Kansas where we have a herd law? The be Ilable, for damages if I could that his closing up the section line may farm was the means of turn-traftic away from my farm and for traftic away form my farm and for the considered not on any main trav-d. Would I be subject to damages the ing these old wire gates and pass-training these of the second pase particular SUBSCRIBER.

Inless a road has been regularly up along the section line, the owner has the same right to it up that he has to build fences any other part of his land.

Our law provides in certain that gates may be placed across certain lisos he traveled road where the road runs

thru a pasture. If the gates are made consent of the person holding the mort-as provided by law and if posts are gage. put in on either side of the gates so 2. If the phone was attached to the that one passing thru may the his building as it probably was, it would horse or horses while he is opening or shutting the gates, then he would be required to close the gate after passing thru and if he did not, would be subject to damages.

Hoop Snake

Is there such a thing as a hoop snake and do they travel in the form of a hoop? How do they do it? MRS. CHARLES B. CROOK.

The hoop snake is the product of someone's active imagination. The old story used to be believed that this snake would take its tail in its mouth, form itself in a hoop and roll with great rapidity toward the object that it wished to strike. As a matter of fact no one ever was found who had actually seen a hoop snake for the very good reason that there was no such reptile.

Sale of Building

If A sells a farm to B and holds a mort-gage on the place, can B remove any of the buildings and cut down trees from said farm until mortgage is paid? A has a phone in the house. Can he hold same if nothing was said regarding it? I. H,

1. In almost every mortgage there is a provision that the mortgagor shall not remove buildings or commit waste upon the place and even if there were You can have an none, the common law would forbid amount issued ou his removing buildings without the if you so desire.

building as it probably was, it would be considered a fixture and part of the real estate and would go with the deed to the real estate.

Wife's Share

I am a farmer's wife and my husband and I both have worked hard getting the place paid for. I work cut of doors as much as I work indoors. Am I entitled to half the money each year that the place produces 7 READER.

You certainly are entitled to it, but could not under our law require your husband to turn it over to you unless he was willing to do so.

Rental Contract

Rental Contract I rented my farm to a man on a verbal contract. I rented the place to him from August 1, 1919, to August 1, 1920, he agree-ing to pay pasture rent in advance August 1, 1919, but did not do so. He kept putting off paying and now he has moved off the place and did not pay. He got another man to stay on the place until August 1, 1970, and turned the pasture over to him. Can I garnishee his wheat after harvest to get my rent which was \$1597 E hought some things from him for \$11 so that would leave but \$44 which he still owee me. How can I get my money? He is coming back to harvest his crop of wheat and barley. Whom shall I see to garnishee his wheat? SURSCEIBER. You can levy an attachment uncer

You can levy an attachment upon his wheat crop to secure your m You can have an attachment for this amount issued out of the justice court

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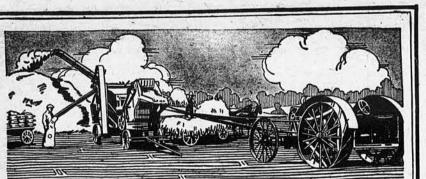
MODERN farming finds the Stoughton Truck the dependable; economical aid of today—as reliable as the "real" Stoughton Wagon has been for over 65 years. Specially fitted to country needs-day-after-day going, over all kinds of roads and with all kinds of loads-the new Stoughton Oversize Truck gives the utmost in uninterrupted service and long working life. Oversize wearing strength in every wearing part reduces operating and upkeep costs. Send for specifications of 11/2, 2 and 3-ton models.

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Every Farm Needs a Garden

A Variety of Vegetables Should be Planted-BY O. F. WHITNEY Secretary State Horticultural Society



M AY offers many possibilities for the garden, and proper plans well executed for intensive farming for the month will result in supplying the home with excellent food efficiently produced. This is the month when many of the warm weather crops are planted, or transplanted, such as tomato, pepper, egg plant, corn, beans and all of the vine crops including sweet potatoes. With this planting must go cultivation and constant cultimust go cultivation and constant culti- must stop to eat, he must help bury the vation which will form the soil mulch, dead, he must pay taxes, and it is imwithout which no garden can be a suc-cess. With improved hand cultivators no producers to spare, there are too cess. With improved hand cultivators no producers to spare, there are too much of the back-aching labor is elim-inated. Cultivate early and cultivate he should live the best that he can in often, cultivate for growth and devel- a way which nature provided for him. opment, and not for the purpose of Nature did not expect man to exist destroying weeds. Proper cultivation exclusively on pork and beans, nor eliminates the weed question. Culti- hog and hominy, nor was he to live destroying weeds. Proper cultivation exclusively on pork and beans, nor eliminates the weed question. Culti- hog and hominy, nor was he to live vation must be given at the proper time from the contents of paper bag and a after each rain and oftener if the tin can. A farmer's time is profitably showers are more than five or six days apart. Cultivate previous to planting. Cultivate before the plants are up. Cul-tivate as soon as you can follow the row after the plants are above the ground. Those back-breaking, long unated in the up-to-date garden. It is a pleasure to drive the wheel hoe in well tilled soil and the use of hoe and well tilled soil and the use of hoe and the up-to-date garden. It is and from necessity offers you wilted, a pleasure to drive the wheel hoe in the up-to-date garden. It is and from necessity offers you wilted, a pleasure to drive the wheel hoe in the up-to-date garden to the up-to-date garden to the the up-to-date garden to the up-to-date up-Cultivate before the plants are up. Culrake is no great task when used to stir of a large city stated that she did not and cultivate the soil, but when you are know how good snap beans were until compelled to push the hand plow where she gathered from her own garden compelled to push the hand plow where the row is hidden by weeds and the hoe is used to chop weeds the gardening is not intensive farming but is just mere drudgery.

A Valuable Food

Vegetables provide a food especially adapted to man's need, a nourishing food, a healthful food and a food that does not offer itself as a transmitter of dangerous germs. Man cannot exist by meat alone, but with the addition of a liberal vegetable diet his existence epicure, has become just ordinary is continued sometimes to a date beyond starch and the longer it is cooked the his period of usefulness. Not all of the vegetables that the garden produces are high in food content, yet each one has a proper place in supplying man with sustenance. Yet many of our vegetables and cereals are very rich in food content, among these are peas, beaus and corn. Corn eaten in the roasting ear stage supplies a nutri-tious and palatable food at the least possible cost and corn is a food of great value, and capable of great possibilities. This is proved by separating corn into its many component parts, such as oil, starch and glucose.

The value of the pea-as a food is recognized now and has been for ages. The bean is in the food class as a great commoner, feeding some of our natives in a country where it and the cactus alone can withstand the dry climate and almost torrid heat of certain sec-tions of the plains land. When shelled fully tomatoes. The importance of the the bean offers an article of food tomato is shown by the crop produced making it a helpful factor in advancing 24,000 acres and the fruit from these civilization or supplying a food on acres will reach all of the Atlantie which an army may subsist. The bean states and many of the Middle West adapts itself to circumstances and states with prices higher than ever be climatic conditions, producing in a dry fore. A tomato from your own garded climate a very small fruit such as the will eveel the one shipped to you by climate conditions, producing in a dry fore. A tomato from your own garuar climate a very small fruit such as the will excel the one shipped to you by Tepary of New Mexico, and under fa-vorable conditions the very large lima cents a pound, the average retail price of which some-specimens are an inch today. The tomato must fill a value

AY offers many possibilities for across, and well representing what man

spent in the garden, more so than any-Vegetables where else on the farm. Vegetables fresh from the garden provide a very those large, flat yellow pods of beans.

Plant Some Sweet Corn

Sweet corn gathered fresh and prop-erly prepared and immediately im-mersed in boiling water for a few minutes is about as near a perfect food from the standpoint of food value and taste as one should expect in this world of high taxes and higher profiteering. Wilted roasting ears, where that sugary sirup which delights the palate of the harder it gets, is only a semblance of the real article. Dried sweet corn is a palatable and nutritious food, eco nomically prepared, and in a safe and convenient form for the winter's re serve food. Canned it is the best of products that comes from the farmer's commissary department, and with our improved canning methods it is readily prepared and about as sure to keep as any commodity that is canned which has such a high nutritious value.

May is the month in which to plant the sweet corn for canning purposes. Plant some variety that will produce an ear of fair size and of good quality. The type of long pointed kernels is good, but somewhat difficult to free from silks.

Try a Few Tomatoes

in Florida where this year they have

able place in the human diet as it is been developed until some of the latest eaten by all classes and regularly appears on the table at all seasons of the year.

by some people, but I notice that a by some people, but I notice that a few hills will supply the needs of a large family. The later or winter squashes are the best ones of which the flubbard type is the most popular. Plant plenty of seed in a hill. Pick off the bugs every day while the plant s in its very tender stage and as the begins to grow cover it at the vine oints where it will take root and these xtra roots will be of much service in helping to produce a crop of this valuable food.

Planted about old straw stacks where there is a good mulch, the Hub-bard frequently produces without much to look at as well as wholesome to eat. of The stalk and foliage are attractive in that are known to the gardener, but with attention and sprays one can proood partly vegetable and partly meat.

The Sweet Potato

Another garden product that is supnot be planted on soil which has lately received an application of fresh barayard manure. If planted in that kind of soil, the crop will be all in the and vines. You have the choice and Black Spanish, or in the average of the state of the tate which seems to be gaining popularity among both producers and con-Try some sweet potatoes this get a few "slips," plant them on get, cultivate until the vines cover he ground and then pull out all weeds show themselves. Dig before store in the basement, cellar or hat place with an even temperature out 55 or 60 degrees, and they will afford a delightful change from Irish potato which is a much overed vegetable in the average home. in fact, baked beans, dried peas and provide good substitutes for the potato, and the food provided by substitutes will be a wholesome and more economical. Irish po-at 10 cents a pound should be ativo prohibitive, especially when you realize 15 per cent of the potato is water. some substitute for the Irish poit needs a rest anyhow, for it has uppeared three times daily on many of te bills of fare in this country.

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Let us look for and demand quality vegetables as well as in other s of food. If the meat is tough, read sour, and the coffee muddy y to remedy the condition and ould do so in the vegetable foods thich are used to build and sustain bodies. We are not planting the anstanelon today as was done in the early days, it is the cantaloupe now, who would care to turn down the antaloupe which is a gem in the melon n. It is the same all along the escable highway. Compare some of the snap beans of today with those tring beans of former years. Then off your hat to such as stringless pods, and be thankful that you ing in this day and age of the

"Dare the new pole bean Egg " to our old favorite Kentucky ulturists are making progress. il value of a short generation Compare the Bonny Best with of those early tomatoes, whose wrinkled surface covered a large d seed and a thin layer of flesh ided sourness. The latest im-tomato is smooth, plump, a th a delightful acid flavor and some arients may be used as a dessert ressoul with cream and sugar.

ble place in the nimital diet is it is been developed unit some of the name aten by all classes and regularly ap-creations may justly claim royal at-tributes in their relation to "King Corn." The Bantams are leading in aten by all classes and regularly ap-creations may justly claim royal at-tributes in their relation to "King Corn." The Bantams are leading in y some people, but I notice that a y some people, but I notice that a popularity today. In lettuce the gen-eral public, which buys on the market, best developed unit some has discriminated very much in favor of the compact heads which are won-derful creations in the vegetable world. Look for quality, demand quality, raise quality and you will be moving with the general world which is making strides for the betterment of humanity as it never did before.

The Farm Flower Garden BY M. F. AHEARN

Farm flower gardens never yet have received the attention that is their just due. If carefully planned there is no bard frequently produces without much due. If the flower garden should assistance from the planter. Try this reason why the flower garden should straw stack plan. The egg plant or not be a source of pleasure and pride (uninea gourd is a nice change from to all who behold it. On the farm there the ordinary. This fruit is beautiful is abundant space, a plentiful supply the ordinary at as well as wholesome to eat. of sunshine and excellent plant food in the form of baruyard manure. Many o about all of the bugs and insects farmers assert they are too busy with but are known to the gardener, but their regular duties and have no time for flowers or flower gardens and beduce a food that offers quite a change, sides there is no financial return. True coming as it does late in the summer enough, but there are a great many or early fall. It provides a hearty food things in this world that have a greater when breaded and fried, supplying a value than the silver dollar and the farm flower garden is one of the many.

Then, too, the flower garden, if prop-erly planned, will not require a great deal of time or attention from the busy deal of time or attention from the busy plying good food is the sweet potato farmer. Plan to use only herbaceous perennials and shrubs as these plants will be with you year after year and often will forgive neglect and grow under trying conditions. Select a well under trying conditions. Select a well drained place for these plants where the soil is deep, rich and fairly reten-tive of moisture. Place tall growing plants at the back of the flower bed and the shortest plants in the form and the shortest plants in the foreground. Sometimes a few tall plants are given a prominent position in the foreground to give emphasis to the hardy garden. Single specimens should be used with great caution in order that the grounds may not have a spot-ted appearance. Color arrangement is important and a few suggestions may be helpful.

Orange and vellow may be used with scarlet or crimson, but rose-purple and scarlet never should be permitted to come in close contact. Purple and blue go well with white and pale lavender. Have the plants of the same coloring grouped. Arranging the color in a haphazard fashion usually is fraught with difficulties and nearly always destroys the effect.

Set the tall growing species in the background, specimens of medium size in the middle ground and dwarf or low growing planth or roses in the rear and plant bleeding-hearts, columbine, phlox and hemerocallis in front of the shrubs and for the border use flag-lilies and low growing bulbs.

A list of hardy plants for the farm garden would be incomplete if any of the following plants were stricken from it: Hardy asters, phlox, columbine, peonies, bleeding hearts, iris, fox glove, canterbury bells, hollyhocks, larkspur, penstemon, golden glow, hemerocallis, tiger lily and the hardy perennial grasses.

In the fall plant hyacinths, tulips and narcissus, in order to provide spring flowers. The best shrubs for the farm are Japanese quince, Bridal Wreath, Japanese barberry, Japanese spirea, Siberian pea, Mock orange, Japanese Illac, dogwood, tamarisk and honeysuckle. There is a wealth of material to choose from and notable success awaits the farmer who tries.

For Better Poultry Raising

Culling and selective flock breeding The new pole bean Egg are thoroly discussed in a book just is-to our old favorite Kentucky sued by the Reliable Poultry Journal Publishing company, Quincy, Ill., en-Publishing company, Quincy, Ill., en-titled "Profitable Culling and Selective Flock Breeding." The book takes up titled "Profitable Culling and Selective bases have been improved until scarcely recognizes in this de-fruit the "love apple" of very try raising and tells what has been ac-

complished by various breeders. Methods of culling are given in de-tail so the average poultry raiser can successfully apply them, and all breeds are included. A chapter is devoted to selective flock breeding and another to balancing the flock and methods of increasing fall egg production. The price of the book is \$1.50.

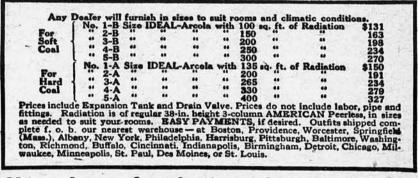
The home garden should be near the Corn of the roasting ear variety has house, but not too near the hen house.



19

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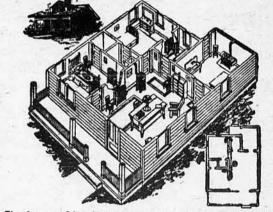
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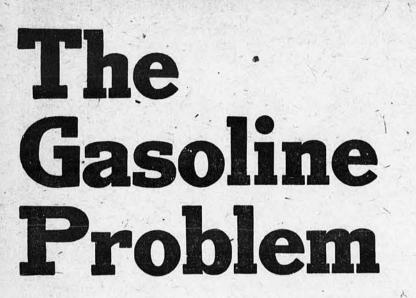
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THE grave problem confronting the serious-minded men in the petroleum industry today, is to keep pace in production with the seven-league strides of the demand for gasoline.

In ten years the production of crude oil in the United States has increased only 96 per cent, while during the same period the output of gasoline has increased 560 per cent.

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It is apparent that this could not have been accomplished except by intensive application of improved, scientific methods of refining.

As a matter of fact, the price of gasoline is held in bounds only by the sheer force of science.

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Company Standard Oil (Indiana)

910 S. Michigan Avenue, Chicago, Ill.

2045

Kansas Farm News Notes

S EVEN cows owned by J. A. Grim being done in the county. C. H. Black of Meade county produced nearly of Neosho Rapids was elected presi-1,000 pounds of butterfat during dent, John Loomis of Emporia secre-the 30-day period, March 15 to April tary and W. A. Gladfelter of Emporia 15. The average was a pound of but-treasurer. terfat a day to the cow. Mr. Grim feeds his cows liberally, but was not certain they were returning any profit with feed as high as it is at present. After doing some careful figuring, however, and keeping records for a month, he found that the herd averaged \$12 profit a cow.

Rooks County Forms Bureau

A county farm bureau has been organized in Rooks county and the directors are looking for a man to serve as county agent. J. L. Conger of Cor-dell has been elected president.

Neosho County Sheep Association

Sheep growers of Neosho county have recently completed an organization. This pamphlet, which is entitled "In-An effort will be made to follow co-spection Circular No. 11," also contains operative methods in livestock improve-a full report of the 1919 annual meet-ment and particularly in-the handling ing of the Kansas draft horse breeders' of sheep and the selling of the wool.

Cattle Dying Near Clyde

Reports come from Clyde of cattle dying apparently from poisoning on wheat. The brain seems to be affected and the cattle are said to suffer intensely and die in about 24 hours after they have taken the disease.

Co-operative Elevator at Olathe

The Farmers' Union Co-operative Business association of Olathe has just purchased an elevator costing \$22,500. The association expects to begin business May 15. The Farmers' Union now has a chain of locals encircling Olathe.

Grass Very Backward

It is reported that the grass in Southwest Kansas is very backward this season. It has been necessary to continue the feeding of silage, hay and other roughage later than usual. For-tunately there has been plenty of rough feed to meet the emergency.

Kansas Accredited Herds

The March report of the tuberculosis eradication work of the Bureau of Animal Industry shows that Kansas now has 46 herds of cattle on the accredited list, Dr. H. M. Graefe and his three assistants tested 41 herds during the month or 1,211 animals and found 43 reactors

New Mills at McPherson

The Farmers' Co-operative association of McPherson is planning to build a flour mill this summer. Another mill under private ownership is also to be built. One of the new mills will have a capacity of 2,500 barrels of flour a There are now two flour mills day. in McPherson.

Chase County Pastures Filling

The cattle going-into the Flint Hills pastures of Chase and adjoining counties are reported to be in much better condition than usual. Pastures are condition than usual. Pastures are filling up rapidly, the price being \$12 to \$13 a head for the season with 5 acres allowed to each animal. Cattle have been coming in rapidly and from present indications every pasture will be filled. be filled.

School Keeps Dairy Records

the Reno county high school are keep-ing production records of all the milk cows in the Nickerson community. They weigh the milk and make the butterfat tests, keeping close account of the feed consumed. This is done for a 2-weeks period and the results tabu-lated to see whether the cows are profitable or not. has also been formed. The members expect to market at least a carload of wool this spring. J. B. Goering of Elyria was elected president, V. M. Emmert, McPherson, secretary and B. A. Reichert, McPherson, treasurer. New Weather Station A new United States Weather stat profitable or not.

Lyon Hog Men Organize

breeders in the county and interest in reau has been forced to forecast the the breed is on the increase. The as-weather for this section of the country sociation plans to hold two sales each from reports sent out from North year and will help in the pig club work Platte, Neb.

Association Sale in Sumner

The Shorthorn association of Summer county held its first sale last week in the city gymnasium at Wellington, 50 animals being sold. The cattle were inspected by R. W. Kiser, extension specialist in livestock from the Kansag Stote Agricultural collogo This is State Agricultural college. This live county organization of breeders expects to make the sale an annual event.

Horse Registry Report Ready

The 1919 report of the Kansas live. stock registry board has just come from the state printing plant. It con-tains a record of all stallions licensed for service in the state during the year. association. All mare owners in the state should have a copy of this report which can be obtained free by address. ing F. W. Bell, secretary, Kansas state livestock registry board, Manhattan, Kan.

Grangers Plan Co-operation

Co-operation in buying and selling farm products was the subject dis-cussed at the April meeting of the Shawnee county. Pomona Grange, This was urged as the most satisfactory method of curbing profiteering and reducing the high cost of living. Among those taking part in the pro-gram were A. B. Smith, Carl Snyder, C. M. Warner, William Baker, George Stiles, Ralph Searle and Mrs. J. L. Heberling. The Grange of Shawnee county has purchased binder twine cooperatively for several years. By grouping orders considerable saving has been effected. Carl Snyder distribut-ing agent, announced that this year's price would be \$14.40 a hundred pounds. More than a carload of twine will be used by Shawnee county members this year. The next Pomona meeting will be an all day affair with the Wakarusa Grange, May 20.

Form Cow Corporation

A Holstein corporation capitalized at \$1,00,000 has been formed at Concordia. Its purpose is to bring 100 high-class Holstein cows to Cloud county and place them in the hands of farmer members of the company. Several such corporations have been formed in Kansas. One in Lyon county has been in operation successfully for more than a Sas. year.

Students Pay School Expenses

Only 33 per cent of the students at the Kansas Stafe Agricultural college are entirely supported by the parents, according to some statistics recently compiled by the registrar, Miss Jessie D. Machir. The figures show that 43 per cent of the students now in attend A total of ance are self supporting. 3,048 students are enrolled this year.

McPherson Sheep Men Pool Wool

Sheep growers of McPherson county organized an association recently and have made plans to sell their wool co-operatively. A sheep shearing circuit Students in the agriculture class of has also been formed. The members

tion has been established at Goodland. It is equipped with all the instruments for taking observations and will send Lyon county Duroc-Jersey breeders reports twice daily. It will be the only recently organized a county association. station in Northwest Kansas. Hereto There are more than 50 Duroc Jersey fore the United States Weather Bu-breeders in the county and interest in ack

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Farm Questions

Address all inquiries intended for this column to John W. Wilkinson, Farm Question Department, Kansas Farmer and Mail and Breeze, Topeka, Kansas.

Good Sprays for Trees

I wish to know what to use, and in what proportion of each for the spraying of young fruit trees, such as peaches, plums, cherries for both the web worms and borers. Caney, Kan. MRS. J. E. STONE,

We are sending you bulletins on spraying which I hope will answer your first question.

your first question. In regard to the web worm it is readily controlled by spraying with any of the arsenicals when the work of the young larvae is first noticed. If you spray for codling moth there should be little danger of trouble with the first generation, and another spray given in late July or August should get rid of any of these or other cater-pillars that may be in the orchard at that time.

For borers the only satisfactory way to get rid of them is to dig them out and destroy them. It is suggested that where their runway is found a sharp wire should be inserted with the purpose of spearing the borers. Another way to control them is to

put carbon bisulfide in the runway and closing up the end with cotton. Nu-merous washes have been suggested at various times but have not been very successful. M. F. Ahearn.

Udder Infection

1 have a Jersey cow 3 years old and one of her teats has become spolled. It became sore and very hard to milk, and the milk is blody. The teat is not swollen but became meaty and hard at the point. Is this a diseased udder and if so what is the rem-edy? A SUBSCRIBER.

I am inclined to believe your Jersey has an infection of the udder. It is contagious and you should take steps o prevent it from being transmitted Place the cow in a stall by herself and milk her last. After milking, the hands should be cleansed in an antiseptic wash. The milk, if thrown away, should be mixed with some hog dip and thrown where other cattle cannot come in contact with it. Some feed to hogs and many times no bad results follow, but it produces indigestion in hogs sometimes. It would be a serious mistake to strip this milk on the ground where other cattle lie down.

It is very difficult to overcome enirely but as a curative treatment, try he internal administration of a mixture of 1/2 ounce of formalin in 1 quart of water. Drench daily until 10 or 12 doses have been given. Discontinue for a week and give another 10 days' course of treatment. R. R. Dykstra.

Cleaning Out Cellar Drain

The drain leading out of my cellar is closured and I thought some of the readers of your valuable paper might know a rem-s edy. I certainly dislike to dig out the drain, as i did five years ago. I let the wash suds from thru each, week and it's the soap that, causes the stoppage. If anyone knows any-thing that will clear away the stoppage it will be greatly appreciated. L. P. (G.

Frequently a partially clogged drain than 10 or 15 cents at your grocery store and it will be more than adequate for this purpose. An obstruction lodging in a drain

an obstruction longing in a dram may frequently be dislodged by the use of so-called "Plumber's Friend," or as rubhar force cup. This handy little device has saved the writer many fees that would otherwise have been collected by the plumber. In a house with samilary plumbing this tool is a good one to add to your supply and will not tost more than \$1. C. E. Jablow.

Meat from Ruptured Hogs

Please tell me whether meat from rup-tured hogs can be used for human consump-SUBSCRIBER, Garnett, Kan. The meat of a ruptured hog is per-

fit for human consumption provided the animal is otherwise thrifty. In other words, the rupture itself does not make the meat inedible.

R. R. Dykstra.

Seeding Barley

As the seeding of barley is something new this part of the country, I would like to the same one who has grown it, to advise e whether Northern barley would do to by in Southwestern Kansas, and what is proper time to seed and how much to liarper, Kan, Common and the same abasing a

Common six row barley obtained from the North would be satisfactory

for seeding in Southwestern Kansas, of being affected with the condition providing seed cannot be located closer ordinarily spoken of by sheep men as at home. I would suggest that you get "big-head." The true nature of this your barley as near home as possible. disease is not understood, and it is disking in the spring followed by harrowing will put the ground in good condition for seeding. Four to 5 pecks of seed will be sufficient to seed an acre in your section of the state.

L. E. Call.

Barley and Oats

Will you tell me how much barley to sow o the acre and when to sow in Eastern ansas? What is best time to plant corn? o you recommend genuine Texas Red oats? Howard, Kan. R. RUSSELL.

Barley should be sown as early in the spring as the ground can be prepared. Ordinarily a bushel to a bushel and a half of seed should be sown to and a half of seed should be sown to the acre. It is not advisable to sow barley in any community where chinch bugs are present. You will find Texas Red oats satisfactory for your part of Kansas. L. E. Call.

Sheep With Big Head

Sincep with sig field We lost a ewe, and didn't know the cause. I first noticed that her head was swelled. Then it went down, but the next day it was swelled about twice as large as it should be. She was this way for three or four days, and would eat until the last day. The swelling was all over her head and down her throat a little ways. I cut into the swelling and a yellowish fluid ran out, it looked like separator oil. Please advise me as to what was the matter with this sheep, the cause and cure. Parsons, Kan, EARL KARSTETTER. Xour sheap probably diad as a result

Your sheep probably died as a result tain.

your barley as near home as possible. disease is not understood, and it is Barley should be sown just as early rather uncommon at this time of the in the spring as the ground can be year. It is said that if the affected prepared for the crop. Like oats the sheep, as soon as they are observed to earlier the seed can be planted, pro-be ill, are kept in a quiet, dark place viding the ground has been well pre-pared for the crop, the better. The best ground for barley is ground that grew corn the season before. Good, thoro disking in the spring followed by har-vou might try this treatment. you might try this treatment.

R. R. Dykstra.

World's Dairy Record

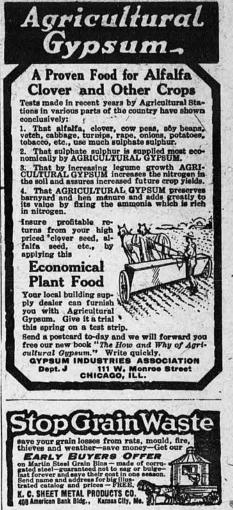
I would like to know which type of dairy-cattle holds the world's record on producing butterfat. CHARLIE M. GUYER. Coldwater, Kan.

The Holstein, Friesian breed holds the world's record for production of milk and butterfat in all the mature classes from one day to 365 days in length. The highest yearly record is 1205 pounds of fat and 27,761 pounds of milk, held by Duchess Skylark J. B. Fitch. Ormsby.

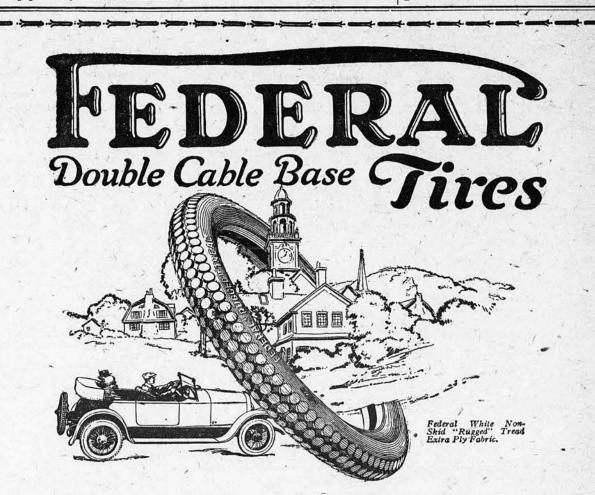
Sowing Alfalfa

Please tell me what amount of alfalfa to sow for each scre. I have some genuine Cossack alfalfa seed bought at Buffalo dap, South Dakota, and grown on 7-inch rainfall. How will it do here? R. RUSSELL. Howard, Kan.

Fifteen pounds of good alfalfa seed should be sown to the acre when the seed is sown in your section of the state with a broadcast seeder. I doubt whether there is any advantage in planting Cossack alfalfa. We have found by repeated tests conducted in this state that home grown common alfalfa seed is superior to any other variety that we have been able to ob-L. E. Call.



21



Rim-Chafe Ended, Road-Miles Extended

The Federal Double-Cable-Base puts a stop to rim-wear which causes blow-outs just above the rim, and . other costly forms of rim-damage that permanently end a tire's usefulness.

Four cables of stranded steel grip

the Federal tire in correct position. The miles Federals save from the rim, you use on the road.

The sooner you begin to use Federal Tires, the more miles you can save.

Why not begin'now?

THE FEDERAL RUBBER COMPANY, of Illinois, Factories, Cudahy, Wis. Manufacturers of Federal Automobile Tires, Tubes, and Sundries, Motorcycle, Bicycle and Carriage Tires, Rubber Heels, Horse Shoe Pads, Rubber Matting and Mechanical Rubber Goods





Rural Engineering Hints By C. E. Jablow -

WHEN the advantages of land rollers are fully appreciated there is little doubt but that their use will be much more wide-spread. Too often we place land rollers in the same category with road rollers but this is a www.with road rollers but this is a wrong idea.

In the very earliest forms of land rollers large solid cylinders of timber or stone attached to a frame and shafts were used. Even in the modern rollers, in many cases we do not depart very materially from these early forms. The materially from these early forms. The injuring the grain. simplest form which is constructed of Any soil that is as a rule of loose cast iron and has a smooth surface texture will be benefited by rolling, closely resembles the early forms. In but the roller is not recommended as place of cast iron for the smooth rolls, a panacea for all ills. On some sandy

it is entirely feasible to use concrete. One authority suggests as a proper no place weight, a roller weighing about 100 doubtedly pounds for every foot of width. It vestment is should be noted in this connection, that dividends. the weight does not necessarily fix the diameter of the roll, for it is entirely practicable to make them hollow and consequently of larger diameter. They should be not too large, however, for a given amount of material, as then the strength is reduced.

Within limits, the larger the drum, the more satisfactory will be the work done and a smaller amount of draft will be necessary. In the past timber rollers, 20 inches in diameter were considered a fair size.

Disadvantages of Smooth Rollers

The smooth rollers certainly can be used for compacting the soil and presenting a smooth surface for the mower, but a perfectly smooth surface usually results in an unnecessary loss of moisture. Of course, where the question of conservation of soil moisture is not paramount, the smooth roller can be used.

One of my farmer friends has used with very good success a roller con-structed in the following way: A piece of timber 16 or 17 inches in di-ameter was selected. A length was used, equal to the distance between rows of his growing crops. Starting at the center he dressed down the log until it was only several inches in diameter at the ends. The finished roller had the appearance of two cones with their bases against each other. A frame and a pair of shafts completed this roller. He reports that it was entirely satisfactory for crushing the clods and leaving the soil in good condition.

Corrugated or **Disk** Types

The most recent types of rollers known as the corrugated or disk type, consists of a series of disks mounted upon an axle. The disks have a cross section and its action is to leave the soil with small ridges for the better retention of a soil mulch which reduces the surface evaporation. This is actually accomplished in spite of the fact that more surface is presented un-der these circumstances. These ridges for best results should preferably be in a direction across the prevailing winds.

On the market we find a variety of different designs. Some of these are a single series of disks mounted upon an axle, others have two sets of disks, one following behind the other and are staggered. In still another design the disks are separated by notched wheels. All of these types are intended to serve

Pulverizes the Soil

serves as a valuable aid in pulverizing girls. marketing, livestock, poultry, the soil by breaking the clods and dairy, field crops, farm machinery, lumps of tangled roots and earth that horticulture, health, etc.

Everyone knows that a finely pul- the most interesting and instructive. verized seedbed especially for the re- In order to introduce this bright and ception of small seed will result in far more satisfactory germination. This is true because the plant food becomes the publisher agrees to send the paper model and becomes in constant of the publisher agrees to send the paper readily available and because in compacting the soil, the roots of the young plants, near the surface, that would You should send in your dime today otherwise be in dry soil, can receive Address, Capper's Farmer, 507 Capper moisture from lower depths on account Bidg., Topeka, Kansas. You can't af of increased capillarity.

In doing this compacting, the result would be also to increase surface evaporation were it not for leaving a surface mulch. In plain cylindrical rollers, therefore, it is advisable to fol. low immediately with a harrow.

The roller is sometimes used with good success for breaking a crust that has formed on the ground even after the grain has germinated and has started to grow. It is said that a mulch is formed in this way without injuring the grain.

soils or on heavy clays, the roller has no place whatever, but there are undoubtedly many cases where an investment in a roller would pay large

For Better Farm Buildings

"Better and more convenient farm buildings are just as essential for the improvement of farm life in Kansas as better seeds and livestock," says H. H. Umberger, dean of extension, Kansas State Agricultural college.

Here tofore no one has offered Kan-sas farmers definite help in planning the farm plant. Buildings have been put where they were needed most that year, and the carpenter and mason did the planning. Hereafter this will not be necessary since the extension division of the agricultural college has employed an experienced architect to assist rural tax payers in planning and building farm homes.

Walter G. Ward, formerly head of the department of architecture and the department of architecture and drawing at the North Dakota Agri-cultural college, will head this work in rural architecture. While Mr. Ward has had experience in various lines of building construction he has made a special study of rural architecture from the standpoint of utility, general arrangement, sanifation, and adaptaarrangement, sanitation, and adapta-tion to climatic conditions. Farmers who have building problems the coming season can consult with Mr. Ward thru the extension division of the colloge.

Grange Extension Fund

Reports indicate a good response to the Grange appeal for the building up by voluntary contributions from members and friends of the order of a Grange Extension fund. The need of organizers and Grange workers is very great. Several states are asking for organizers, and this fund will help send them. All checks or other contributions should be sent direct to Sher-man J. Lowell, Master National Grange, Fredonia, N. Y.

SOMETHING DIFFERENT

A Farm Paper Edited on a Farm Capper's Farmer, published by United States Senator Arthur Capper. of Kansas, is a farm paper that is different. It is edited on the farm by a farmer and for the farmer. It is published in the heart of the greatest agricultural country in the world. It stands for a square deal for the consumer and fair profits for the producer thru eliminating grain gamblers, market jugglers, the double purpose of cultivating at the same time that the soil is being compacted and left with a mulch. gressive, there is no such favorite as Capper's Farmer. There is a depart In spring and summer the roller ment for the women folks, beys and In addition the cultivator or other implement has to the regular editorials. Senator Cap brought to the surface. per's Washington Comment is one of

> In order to introduce this bright and six months for ten cents. This is a special offer, good for ten days only. You should send in your dime today. Address, Capper's Farmer, 507 Capper ford to miss a single copy.



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There's Wear, Comfort, and

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Finck's-no matter how many times they go to the tub, they never become too tight. They

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Try them and see for yourself.

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ASK YOUR DEALER

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of money to the growing grain and grass. Later in the week came high grass. Later in the week came high west winds, but aside from being dis-agreeable they did no particular harm. Today, April 24, is the ending of a big corn planting week and if the next week is favorable the most of the corn to be planted here will be in the grass. Later in the week came high The price charged here last year for cutting small grain where the one do-ing the cutting provided everything all of the horses, was \$2.50 an acre. The man with whom we made our sons we have been planting corn in Coffey county, has the soil been in better condition.

Prospects for Pasture

The average annual date in a 25-year period in which we have turned year period in which we have turned our cattle out to make a full living on the native pastures has been April 20. The earliest I can recall in which there was plenty of grass large enough to allow cattle a "full bite" was April 7 and the year was, I think, 1908. In 1907 we turned the stock out earlier 1907 we turned the stock out earlier than the average date and to good grass, too, but freeze after freeze followed and May 1 that year found pas-tures as bare as they usually are on March 25. Today is April 24 and we have not yet opened the yard gates. It has been cool and native grass starts slowly. There is bluegrass in plenty along the creek, but we still have 50 shocks of corn fodder and a stack of alfalfa opened so we are in no hurry to turn out the stock. When a warm, still day comes, however, the cattle smell the green stuff growing and they let us know, as well as they can, that they would like to have the gate to the pasture opened.

When to Graze

On many farms in this county cattle have been out on the grass ever since it was large enough to make a tinge In some cases this is beof green. cause of water being convenient, while others think stock do better when given access to the grass from the time it starts. They say that stock in this way will become accustomed to the change more gradually. Our practice always has been to keep stock in the yard until they can get their full liv-ing from the grass. When they get a taste of grass they do not care to eat anything else and reject the dry feed which they really should eat. Pastures which are cropped to the ground from the very start recover slowly and should the season prove dry never rewould not turn stock out on green grass until they can get their whole living there unless compelled to do so by necessity.

Don't Use Unreliable Planters

Our old corn planter which we have sed for 15 years, planted its last seed this week. We started work with it, but it made lots of trouble and after Several hours' "monkeying" we pulled it in and ordered by telephone another one of the same make. By delaying planting for two or more days and paying out several dollars for repairs we might have made the old planter last for another season, but we realized that there is no implement used on the farm which can lose a man money faster than a doubtful planter. A doubtful planter. dochtful planter, like a doubtful egg, st profitable when discarded as on as possible. When we sold a planter we formerly had before we bought the veteran that we have just discarded we made the mistake of waiting a year too long and paid dearly for that mistake. I doubt whether \$75 would be a state of the state of th Would have made good the loss the old planter caused us and new planters in those days could be bought for \$40. The next season we bought the one that we discarded this week, paying \$40 for it; we used it on two farms for 15 sense. 15 seasons, making a cost of less than 33 a year or not more than \$1.50 a farm. The new planter cost \$80 and

E HAD a scare the first of this if it lasts as long as the old one it will W E HAD a scare the first of this if it lasts as long as the old one it will week from the local weather cost us a little more than \$5 a year bureau, which notified stock-if we do not make any allowance for a cold snap with driving snow. In-stead came a mild spring day with to the cost of producing 75 acres of showers which were worth a great deal of money to the growing grain and

Cost of Cutting Grain

the corn to be planted here will be in The man with whom we made our the ground. It goes into soil in the binder deal said that many will charge best of condition. Never in the 25 sea- \$3 an acre this year. Because of this high charge he said that he could easily sell our old binder to any man having from 30 to 40 acres of grain to cut. Such a man would rather pay \$100 for a machine to do the work than to pay

out that amount for cutting and then have nothing left. In addition, the man who has his own machine can do his work when the right time comes; if he depends on hired cutting he may have to wait a week longer than he should and a week can sometimes bring a lot of grief to the owner of standing grain.

Living Conditions Similar in 1767

No, that quotations similar in from from the daily paper of yesterday or last week. It is from the "London Magazine or Gentleman's Monthly In-telligencer," printed in the year 1767. It forms part of an article almost every word of which is exactly pertinent to our present conditions. The conditions our present conditions. The conditions of which the old magazine complains The sorghums produce a L were the result of exactly the same profit in Kansas than corn.

thing which produces similar conditions today—a long and hard fought war. That our future will follow along the same lines that followed those of which the old London editor complained cannot be doubted. What followed 1767 may be learned by anyone who cares to take down the economic history of the British Isles for the 50 years which came after that date. The man who judges the future by the past will concede that now is a mighty good time in which to pay debts. Those who have read this column for several years know that I do not often attempt to give advice. I try to state facts and let you draw your own inference from them. But for once I am going to hand out a line of advice: If you have debts due and have some ready money and are in doubt as to whether to buy something you can get along without or pay your debts, why-just pay the debts and be thankful that you can do it with 50-cent dollars.

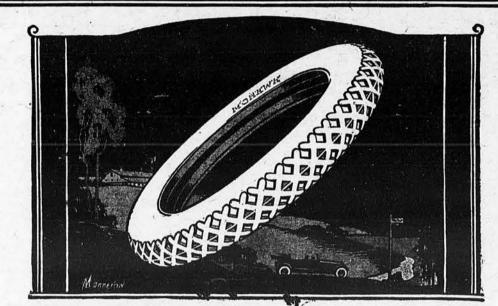
A Pertinent Quotation

Doesn't the following quotation hit present conditions pretty nearly? "The lowest manufacturer and the cheapest mechanic will touch nothing but the very best pieces of meat and the finest white bread; and if he cannot obtain double the wages for being idle what he formerly received for working hard, he thinks he has a right to seek for 'a redress of his grievances by riot and rebellion. Since the value of our money is decreased by its quantity, our consumption increased by universal luxury, and the supplies, which we used to receive from poorer countries now also grown rich, greatly dimin-ished, the present exorbitant price of all the necessaries of life can be no wonder."

Seeds, like mankind, are able to sleep well and get up early, if they have a good bed.

The sorghums produce a larger acre





Mohawks Treat You Squarely

The man who buys a Mohawk Tire is usually sur-prised and delighted at the mileage it gives him.

Experience with other tires has taught him to expect approximately a certain number of miles. When he finds that his Mohawk Tire is yielding from half again to double that amount-naturally, the next tire he buys is a Mohawk.

Then, doubly gratifying is the fact that this next Mohawk does as well—or even better.

In short, he finds that Mohawks give him the ort of treatment he likes from anyone with whom he does business-fair and square-never disappointing-honest and dependable.

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And we can offer conclusive proof that this is not an exceptional case, but the universal experience of Mohawk users.

Records kept by our dealers show that 85 out of every 100 who buy their first Mohawk Tires become permanent users. Certainly this is as close to one hundred per cent re-sales as any product can show.

The explanation is simple: Mohawks always have been, and always will be, carefully made by hand, from the purest rubber and the strongest fabric produced.

Made in Cord and Fabric Types-Good Dealers Everywhere Handle Them MOHAWK RUBBER COMPANY, AKRON, OHIO



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Farming in Western Kansas

HILE Western Kansas is not a in the fall or in the early spring. This

Our chief reliance in Western Kansas should be on the early fruits which a quicker and surer start of the sor-get ahead of the hot dry summer sea- ghum seed. This also has the advanson, such as cherries, plums and early crab apples.

Pratt County Farm Bureau

of Pratt county have signed a contract entire season. with C. V. Crippen of Reno county to become farm agent of their county June 1

Mr. Crippen is a graduate of the agronomy department of the Kansas State Agricultural college. He was on a farm in Reno county and raised is familiar with the problems of the the bottom lands of Western Kansas, farmers from a practical viewpoint.

He has been closely associated with B. S. Wilson of the college in co-opera-tive experimental work. During the summer of 1919 he assisted in collecting and arranging crop exhibits for the International Soil Products Exposition in Kansas City, the International Live-stock Show in Chicago and for the Wheat Show at Wichita.

Chicken Profits

With chickens selling from 30 to 40 cents a pound live weight and with the constantly increasing amount of grain sorghums grown in Western Kansas, the number of chickens should be increased on every farm. With a little patience in the beginning turkeys can be raised. After they get a few weeks old they will not only pick up their own little patience in the beginning turkeys their own living, but also do much to keep down the grasshoppers in the gar-den and around the premises.

The Western Kansas wheat farmer must raise livestock in connection with the wheat farming to use the by-products and develop an income during the dled by the family are adding a safe show, however, that Red Amber sprouts are practically fed on the burner of the provider and grows under just are addressed and grows and grows are grows are grows are grows and grows are grows a time he has no wheat for sale. Dairy are practically fed on the by-products ditions. of the wheat farm.

Sudan Grass in Kansas

Ground that is to be put into Sudan grass ought to be plowed now so it can catch what moisture falls and get warmed to catch the Sudan grass by ties, about Onaga. So many electric May 10 to 20. Sudan grass is a hot light plants are being put in on farms weather plant and needs a warm soil that the farmer who builds a new in which to community and is started that the farmer who builds a new in which to germinate and if started house figures it is a good plan to wire fairly early makes two good cuttings a year, furnishing excellent feed for live- may desire to put in a lighting system. stock, especially for horses.

Condition of the Wheat

Recent rains have resulted in a rapid improvement of the wheat condition over Western Kansas. While fields were blown badly and some were practically ruined, the percentage of damage in Western Kansas is less than economical and often looks better than expected. This probably was due to where the wiring is done after the the fact that there was considerable house is up and walls and ceilings have moisture in the soil.

Planting Sorghums

Most Western Kansas farmers are beginning to realize that the grain sorghums outyield corn as a grain and as a forage crop. This is resulting in and more interested in installing electhat the forage sorghums outyield corn the consistent increase in the acreage tric lighting systems on their farms, of sorghums. While sorghums will stand and wait for rain even during three or four days of hot winds and start growing immediately after the rain comes, corn if caught anywhere the state horticultural society, Kausae near tasseling time with three days has 256 million birds which eat 570 of hot winds not only fails to produce million pounds of insects every year.

withstanding our climate, they are not ing birds and insects many years. The so safe on the start. They are a hot object of the report is to strengthen weather plant and require a warm, public sentiment in favor of legislation moist soil in which to germinate well. Some farmers complain of not being theory that birds save millions or dolable to get a stand. This is due to lars worth of crops annually by deveal

planting seed in a cold soil. The Fort Hays Experiment station, when possible, blank lists the ground

fruit country, the late storms permits the furrows to warm up. When and freezes have killed practi- weeds start the ridges are thrown in cally all the fruit that might have set with an ordinary two-row disk weeder. on this season. Professor Albert Dick- The grain is then listed by nosing out ens, in a recent trip thru this section, the same furrows, the seed falling in made a careful examination of buds the warmed soil in which loose, mellow and found them practically all killed. dirt has fallen during the process, thus making a better seedbed and insuring tage of getting rid of one or two crops of weeds before you plant the sor-ghum, which usually saves one cultivation afterward and permits you to The directors of the Farm Bureau keep ahead of the weeds during the

For More Alfalfa

Despite the cold nights and occasionally cold days alfalfa is making an unusually rapid start for the first crop. This crop which has proved most profitable should be planted extensively on

Yields of Red Amber

As a hay or a silage crop, Red Amber sorghum is growing in favor in Western Kansas. Farmers who try it usually discard the impure strains of Black Amber so commonly grown. On the M. R. Baker ranch in Wal-

lace county, Red Amber in 1919 yielded 10.2 tons of silage an acre, and Black Amber under the same growing condi-tions yielded only 6.9 tons. Red Amber yielded 9.3 tons of silage

an acre as compared with 8.04 tons for the best selected Black Amber in a seven-year test at the Fort Hays Experiment station. Red Amber excelled in forage yield and quality every year, and matured within five days of Black Amber. The station is growing 100 to 200 acres of Red Amber annually.

The chief argument for Black Amber is its earliness and sureness. It sometimes leads in seed production. It seems bound to make something despite drouth and neglect. One extensive landowner defends his use of Black Amber on the grounds that it is "fool-proof" against the carelessness of

Farmers Wiring New Houses

Wiring for electric lights and electric equipment is being put in every new farm house built in the communiit so it will be ready at any time he E. L. Frezieres, manager of the Onaga Light, Heat and Power Co., says

the sentiment in favor of electric light plants is growing among farmers and that he gets a call to put in the wiring whenever a new house is built.

Wiring a house when it is being built, Mr. Frezieres says, is much more to be more or less torn up to place the wires and fixtures where they are desired.

Mr. Frezieres believes that this practice will continue when building is resumed on a large scale in rural communities, as he says farmers are more

Kansas Birds

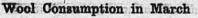
According to a report published by The estimates were made by George A a crop but even dries up. While sorghums have this power of Blair, of Mulvane, who has been still? for better protection of birds on the ing crop destroying insects.

A good pasture reduces the feed bill.



REMEMBER All you have to do to join the club is, send in your answer to the puzzle, and we will immediately send you five beautiful pictures. Pick out the one you want to keep and distribute the other four on our fast-selling 25 cent offer. You will then be an honorable member of the Star Puzzle Club, and receive as a reward a gold-filled, five-year guaranteed Signet ring FREE and POSTPAID. Many do it in an hour's time. Count the stars and send in your answer TODAY. A postcard will do. Don't miss this wonderful oppor-tunity. We have a picture for you.

STAR PUZZLE CLUB, 72 Capper Bldg., Topeka, Kan.



The amount of wool consumed in March exceeded the monthly average for 1918 and 1919, but fell below the high mark reached in Jaguary of this year, according to figures just released.

On a grease basis, 67,900,000 pounds of wool were consumed, compared with 34 million pounds in March, 1919, and 71,900,000 pounds in March, 1918. According to conditions as reported, the cording to conditions as reported, the amounts consumed, in pounds, were: Grease, 47,467,970; scoured, 8,905,370; pulled, 1,971,253. The percentages of the various grades used were: Fine, 29.4; ¹/₂ blood, 18.2; ³/₈ blood, 20.1; ¹/₄ blood, 18.2; low, 3; and carpet, 10.8. There was little change in the usual reading of the states in the assurts

ranking of the states in the amounts consumed. Massachusetts being first with 24,540,957 pounds; Pennsylvania, 8.136,873 pounds; Rhode Island, 6,750,-956 pounds; New Jersey, 5,584,958 pounds; and New York, 4,724.831 pounds; with Connecticut. New Hamp-shire. Ohio and Maine following in the order named.

The Ford Oiling System **The Ford Oiling System "Falls Down" on Hills** When going up hills, the oil in the Ford shifts with the angle of the car, settling under the flywheel and leaving the front cylinders without oil. This causes scored cylinders as the Splash System cannot function when there is no oil to splash. On down grades the oil settles in the front of the car, causing the brake lining to become so, torn that it circulates with the oil and clogs up the oiling system. The Safety Oiling System for Ford cars corrects the defects in the Splash System, filtering the oil and forcing oil to all parts of the motor on all grades. Write for our free booklet. It is educative and interesting. State distributors and agents wanted.

The Charles Kralicek Co., 10904 Woodland Ave., Cleveland, O.



INTERLOCKING CEMENT STAVE SILO CO. Bitting Building, Wichits, Kan.

mong Colorado Farmers

THERE will be a considerable in- items pictures an up-to-date country crease in the acreage of the sor-L ghums this season in many com-manifies in Southeastern Colorado. These crops did well in this section last year: yields on many of the dry land farms were decidedly satisfactory. It is likely that the greatest increase will be with the Dwarf kafirs.

For More Pit Silos

Reports from several counties in Eastern Colorado indicate a real pit sile boom. This is one of the most en-ouraging things which has occurred ith the progress of the agriculture of this section for some time. It is to be hoped that the labor will be available to do all of the work which is now planned.

Cultivation of Corn

In the dry-farming districts, the creater portion of corn cultivation should be done in the preparation of the seedbed. Cultivation after the corn is ap must vary according to seasonal and planting conditions. If listed, the first cultivation should be done with ome of the various listed corn devices. Later the cultivation can preferably be done with a shovel cultivator. It is better to use one with many shovels, to thoroly stir the surface, thus keeping hown weeds and preventing the formation of a crust, than it is to use a cul-tivator having a small number of large shovels which would stir the soil deeply. Cultivation should aim to keep down all weeds. If this purpose is ac-complished by the stirring of the sur-face to 3 or 4 inches, all the ends of ultivation will be met. Deeper cultivation than this is unnecessary and costly, as it takes horsepower and it produces no beneficial results on the orn crop. If the rain should come after the corn is too large to cultivate with a large cultivator, it may be cul-tivated to keep down weeds by means of specially devised harrows pulled by ingle horse.

The first cultivation may be simply a barrowing, or it may be a light cul-tivation with a many-shoveled culti-vator to keep down weed growth. Corn in its young growth requires little water. In most Northern Colorado tions, therefore, one or two cultivais usually may be given before irri-tion is required. In many sections the state, however, irrigation will use to start at once. Irrigation should he given just as quickly as the corn op needs moisture. Later irrigation crop shows need of water.

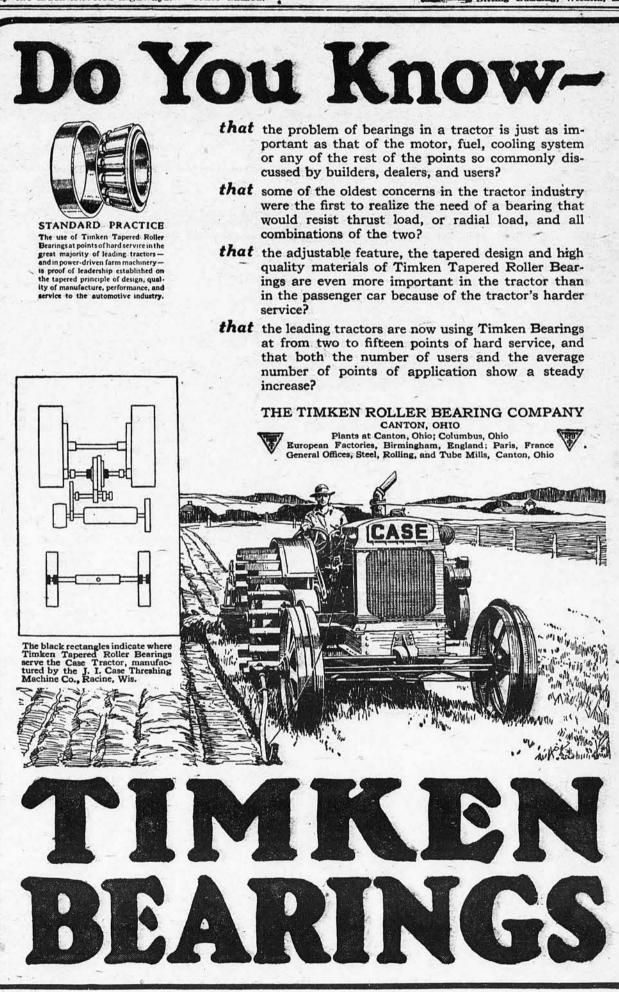
When corn is first started, when it gins to joint, and when the silk and assel are forming, are extremely crit-cal periods in its demands for water. cont pains should be taken to see that least that the corn is provided with der. Of course, if the soil is moist, ater. igation should be withheld. In pretring corn land for irrigation, furrow opener, similar to that and for beets, should be used, as corn pre-supposes, of course, that the are placed on the land so as to ake a proper land slope for irrigation. Ther irrigation, corn should be culti-vated. This cultivation should be given every case up until the corn has Frown large enough to thoroly shade round. After this cultivation fol-wing irrigation is not so important, it will be of benefit. It is doubthowever, if the benefit will be reat enough to justify the cost.

A Value in Farm Names

It is surprising how rapidly and how enerally farm names become known. he public is quick to familiarize itself these names. Especially is this rue if. as is the case in one county which we have in mind, the local news makes frequent use of the farm hathe as occasion affords. Every week in may read in the columns of this the super that So-and-So are guests at such and-such a place, only the farm bane, instead of the names of the losts, being given. But that is suf-Delent. The stranger who reads such

community, with a prosperous, pro-gressive people. The entire county shares in the benefit of that reader's belief.

With practically every country neighborhood now reached by rural service and with better roads, resulting in large part from this and the widespread use of the automobile, the farm home is no longer isolated. Travel, for both business and pleasure, is taking an ever-increasing number of people into the country. So there is a greater need of some means of identifying the farm, just as there is the rec-ognized necessity of naming streets and numbering houses in the city. Inci-dentally, we would suggest the desir-ability of naming country roads, especially the much-traveled highways.



May 8, 1920.

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With the Homemakers Stella Gertrude Nash

Boys' and Girls' Week at Manhattan Was a Big Success

HE TRAVELER who passed thru Manhattan Monday, April 12, took his nose out of his paper and looked around with a start as a burst of laughter fell on his ears. "What are all these kids doing here?"

Since nobody answered and nobody seemed to know, he listened and looked at the pink badges they wore.

"Boys' and Girls' Week. Agricul-tural College, Manhattan, Kan., he read. And he heard them talking about garden clubs, canning clubs, and poultry clubs.

Then as soon as the porter called, "Manhattan," every one was on his feet, his suit case in hand looking for a familiar face on the platform. "There's Mr. Williams!"

Then a rush and the state leader, L. Williams was almost swept off his C.

feet This was the beginning of the biggest week in the history of the college. A big program for little people—and big ones, too—for some of them weren't more than 10 and some were high school

seniors. They were the prize winning club members of the state, the boys and girls who made good in each pro-ject. They weren't slackers at lessons, either, or they wouldn't have been excused from school for a whole week. They were there for a week of lectures, talks and demonstrations—their first glimpse of college life.

In recognition of their achievements as club members their expenses were paid by the state fairs, the Kansas Bankers' Association, the millers of the state, Successful Farming and other organizations.

Looking to the Future

It was a big enterprise, this bringing together of children from all over the state to get an idea of the courses offered by seeing results of classroom They saw the engineer work and by hearing lectures by the the big machine shops dean of each department. It was a vision of the possibilities that lie before them, when they get thru high school.

Heretofore boys and girls have been the guests of the college with their parents during Farm and Home Week and the young people were almost swaland the young people were almost swal-lowed up in the great numbers of older people. This time everything was planned for boys and girls and the 200 who came, saw the college under more normal conditions. They had studied their club lessons and followed the more difference of the article o studied their club lessons and followed how to can tomatoes and carrots, and the rules of the extension division and Stella Heywood, Minnie Gossman and



The Kansas Bread Club 1919 Prize Winners Whose Expenses to Manhattan Boys' and Girls' Week Were Paid by Milling Companies.

making the work possible.

clear to them that hard work brings

recognition, nothing else will. There wasn't an idle minute the whole week. They attended the college chapel and heard George E. Far-rell, National Leader of Boys' and Girls' clubs in one of the finest addresses of the year. They saw the record breaking cows and the prize winning hogs and horses, the Karakul sheep and the fine poultry farm. They saw how wheat is made into bread and the model kitchens where the college girls are learning to cook and serve. They saw the engineering building and

Girls Show How It is Done

But they weren't entertained all the time. They had an opportunity to do their share on the program. One of the outstanding big things of the week was the demonstration of baking and canning by the all star demonstration teams, the girls who were chosen as the

now they had an opportunity to meet Marian Harrison showed them how to some of the men and women who are making the work possible. Marian Harrison showed them how to making the work possible. One of the fine things about such a just as if there wasn't another person meeting is that it shows the young within a block. They proved conclu-people that achievement brings reward, sively that young girls can conquer the If a trip of this kind doesn't make it difficult processes of cooking and do it well.

Here's What They Did

Just listen to what some of the others said:

"A profit of \$380.95 and \$52 in prizes from a litter of purebred corn fed pigs."—Gleason Freeman.

"A profit of \$280.40 from 56 turkeys." Dwight Carson,

"I made more than 709 bakings of bread last year."-Velma Dunn.

"My record of 389 quarts of canned products made me a state winner." Ruby Thompson. "One hundred and nineteen dollars

and twenty cents from 5 square rods of tomatoes is my record."—Hettie Peters.

"Nine Duroc Jersey hogs made me \$260.52."-Frederick True. "From 220 chicks a profit of \$222.30."

Clarence Hershey. "Ninety-eight dollars and seventy cents from 100 square rods of garden."

—Irene Kinsey. "From a back yard garden a profit of \$117.78."—Irene Pashman.

to compare one champion with an- with a regular floor polish. She said other, gaining inspiration that will she could keep the original luster that

take them thru many a hard day's work and many a difficult task.

Last and best of all was the ban-quet. The Chamber of Commerce met the boys and girls with autos and took them for a ride over town then to the Christian church for the final good time, also provided by the Chamber of Commerce. Such eats and such toasts. The boys and girls gave toasts, too. Iva Welter and Gleason Freeman held their own beautifully with the experi-The club enced after dinner speakers. members sang and cheered and listened to the wit and wisdom of the older ones, then went home to tell it all to dad and mother and get ready to come back next year.

Jessie Gertrude Adee.

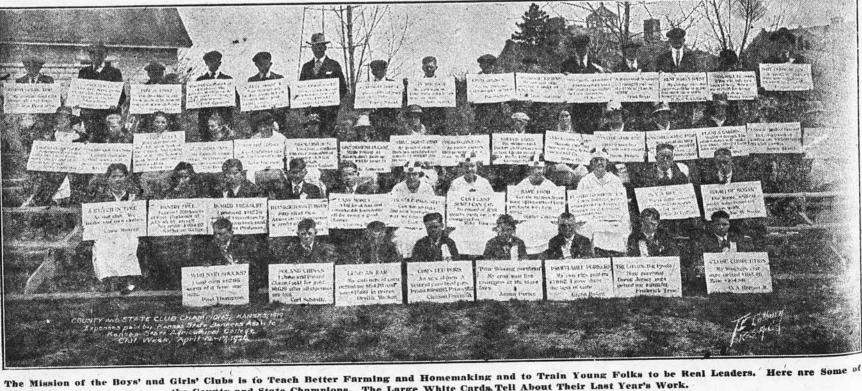
Camouflaging Old Floors

Almost every homemaker can remember the time when it was thought the only persons who could enjoy rugs on their floors were those who were building modern homes and having hard-wood floors laid. The finish of these hardwood floors was believed to be the only kind that would be attractive enough to extend beyond the rug.

There are many examples of floor borders for rugs to be found in the homes built before hardwood floors were thought of. Where the floors are unsightly because of wide, rough, unevenly laid boards it has been necessary to disguise them with some imita-tion hard wood finish.

In a little home visited recently this had been accomplished by disguising in a most pleasing way by using oak The veneer came in the very veneer. narrow board strips and gave the whole house the general impression of having the very latest in hardwood floors. Such a background brought out the beauty in color and design of the rugs on the floor. The homemaker said she was so glad they had laid the vencer on her kitchen floor too, for she liked it so much and found it very easy to keep clean.

And then there is the roll goods in imitation hardwood finish. Congoleum can be found which looks quite like wood and by being able to buy it in the narrow rolls one can easily get just what is needed for the rooms. One homemaker spoke especially of being able to clean this type of floor finish of floor finish by first going over it with a damp floor Thus the boys and girls were able mop, then a dry one, following this up o compare one champion with an- with a regular floor polish. Site said



the County and State Champions. The Large White Cards, Tell About Their Last Year's Work.

made her floors have the appearance just being finished. Where the boards in the old floors

where the boursely wide, or rough and where they have been evenly laid one can get a very satisfactory finish by staining. If there are any wide marks between the boards it is a wise plan to use a paste filler which should he rubbed smooth and allowed to dry. the should give a good deal of thought to the color of the stain to be thing that would want to choose some-thing that would harmonize with the

woodwork, the rug and the furnishings of the room. After applying a good wood dye and allowing it to become thoroly dry one could then use a var-nish or a wax finish. These stained borders for rugs re-

quire a little upkeep for wherever there a constant tread across them the stain will eventually wear off. How-ever, the regular floor polish oils, or wax polishers will bring out the original luster and when the stain wears down it can be replaced without a great deal of labor.

The average homemaker finds rugs so much easier to care for than car-pets that she has welcomed these schemes of hiding the defects in the old floors and dressing her rooms up in the latest fashion.

Mrs. Ida Migliario.

Some Good Rice Dishes

Rice and Milk—Broken rice is pre-ferred for this dish. Wash 1 cup of rice well, drain, add 1 cup of cold and the paper may be put over this. 2 to 3 cups of milk and 1 teaspoon of salt, and cook until the rice is soft all the way thru. Serve hot with brown or maple sugar, honey or corn sirup. Or use a little more milk and serve cold with crushed or sliced fruits. Creamed Rice—By sweetening the

during the cooking and using a rice during the cooking and using a little more milk, we have creamed rice, the basis for many dainty desserts. For example, when the rice is nearly cold, stir in the beaten whites of 2 eggs or use part egg white and part whipped cream; add broken nut meats or candied fruits; or serve in tall glasses with a spoon of preserves or

-Wash 1 cup of broken rice; put in the top of a double boiler, add 1 cup of cold water and let soak $\frac{1}{2}$ to 1 hour. Bring to a boil, add 1 teaspoon of salt and 2 cups of boiling water, boil 5 minutes over direct heat and let steam over boiling water until soft and dry. stir as it cooks. Place in a greased baking dish alternate layers of rice and of cheese sauce. Cover the top with greased rye bread crumbs and bake in a hot oven until the crumbs are delicately brown.

Cheese Sauce for the Rice-Make a white sauce with 1 cup of milk, 1 tabléspoon of fat, 2 tablespoons of flour, 4 teaspoon of salt and cayenne pep-per. In it melt 2 ounces or 1/2 cup of grated or chopped cheese. For 1 cup grated of broken rice approximately 11/2 cups of sinuce will be needed.

A Homemade Food Cooler

We have a milk or food house which think is very practicable. Our windis about 20 steps southwest of the en door. We had a substantial mil kitenen, door. house, 6 feet by 8 feet, built on the west side of it. The house has a door on the east side with windows on the herth and west sides. The floor is ce-

box made of 2-inch redwood is on south side. It is 2 feet wide, 4 feet the and 4 feet high and has a hinged forver. This box is set on wooden trestics 2 feet high. In the southeast corner of the box, 6 inches from the top is a hole just large enough to in-top is a hole just large enough to in-top is a hole just large enough to inthe end of a 1¼-inch pipe, thru the center of the west end of the is a similar hole in which another Dilu is inserted, thru which the water this into the stock tank a foot farther into the summer the water is run into the garden for irrigation.

states of various sizes and heights built in the box so that food the balls may be set on them. The the everything fresh and sweet_and is easily kept clean.

.Mrs. F. E. Sippel. Pawnee Co., Kansas.

3

Women's Service Comer

KANSAS FARMER AND MAIL AND BREEZE

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

The Old Color Question

My sister has dark brown hair, dark brown eyes, and a dark complexion with little color in her face. What colors should she wear? I have medium frown hair, blue eyes and a light complexion with very red cheeks. What colors would be the most becoming to me?—D. T., Montana.

Your sister should be able to wear white, golden brown, navy blue, pink and old rose. I believe you will find the following colors becoming to you: White, dark shades of brown, gray, cream, pale pink, black with touches of bright trimming, and all shades of blue.

Painting an Old Rug

Can an ingrain rug be painted? If so, how should it be done? Can a celling be papered that is covered with celling boards?—An Interested Reader.

Ingrain carpets sometimes are sized Ingrain carpets sometimes are sized several times with a paste made of flour and water boiled together, and then painted. This makes a good imi-tation of linoleum, and will be found very satisfactory. Each coat of paste should be dry before another is applied, and the significant of the second and the sizing should be hard before

it is painted. Wall paper cannot be put on ceiling

Can you give me a suggestion for a birthday party to be given in August or September? Boys and girls between 17 and 24 are to be invited. How should the invitations be written?—A Farm Girl.

Most young persons enjoy a party that is "different." Here is a sugges-tion for one that will be found satis-factory and entertaining, if carried out properly. Send the following invitation:

You are asked to come on this certain day, To a birthday party over the way, Aprons and overalls you're asked to wear, And forget for the time, your everyday car We'll just be school, children once more, Come and enjoy the fun in store. August 26, 8 P. M. Mary Jones. care.

Fix up a room as much like a schooljam on top, and garnish with whipped scream. Scalloped Rice with Cheese Sauce -Wash 1 cup of broken rice; put in or brother. Conduct the "school" as near like a real school as possible. Plan a spell down, an arithmetic con-test, a singing round, and all the special things you enjoyed at school. Also it would be a good idea to have speaking day, and let each scholar speak a little piece or sing a song. When "noon" comes, the hostess

should serve refreshments, which are packed in lunch buckets. Put a girl's name in each lunch bucket, and let the boys choose a .bucket apiece, and then eat with the girl whose name is in their bucket. Deviled eggs, sandwiches, cookies and some kind of fruit would be nice for the lunch. The girl or boy whose birthday it is should have the cake and candies with his lunch. He can put the cake on the teacher's desk, light the candles, and cut it, giving each person a piece. After that, play any favorite school games until it is time for the guests to leave.

Home Dressmaking Course.

Will you please tell me where I can take sewing lessons by mail?—A Reader, Craw-ford Co., Kansas. If you will write to the Woman's In-

stitute, Dept. 8-C, Scranton. Pa., they will send you a booklet explaining their course in home dressmaking.

Advertisements Guaranteed

he end of a 1¹/₄-inch pipe, thru the amount of your loss, provided such fresh water is run from the well. from date of this issue, that it is reported to us promptly, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in the Kansas Farmer and Mail and Breeze."

> The fly has small feet, but a million typhoid germs can ride comfortably on one of them.

A sanitary privy costs \$10; a case of typhoid costs a hundred. You will seldom have both.







We have just recently purchased a large assortment of post cards, and to all who send in 35c in coin or stamps to cover a one-year (new or renewal) subscription to Capper's Farmer, we will send this beautiful collection of post cards FREE AND POSTPAID. Send in your order TODAY—the cards will be sent at once.

CAPPER'S FARMER, Dept. PC, Topeka, Kansas

Vegetables for Next Winter

Canning Surplus Food Will Save Much Money BY MRS. DORA L. THOMPSON

I ning any product she must have them to spoil if placed directly in the her equipment ready before begin- can. The length of time required to ning work and be sure that everything blanch each vegetable has been found that will be needed is spotlessly clean, by experiment and is given in the acthat will be needed is spotlessly clean. by experiment and is given in the ac-The jars and rubbers must be perfect; companying table. It differs as the otherwise the food is likely to spoil no bulk of the vegetables differs or as matter how carefully the work is done. the usual time for cooking differs or Most vegetables are in prime condi-as the acids to be overcome differ. Most vegetables are in prime condi-in the morning. Even then large quan-tities should not be picked and left. Overtiming the blanching period or the standing for any length of time. If sterilizing period may cause a mushy many peas, for example, are left in a product. This is to be preferred to basket, they will heat and all the sterilizing one can

F ONE IS to be successful in can- acids from vegetables that would cause

one. When the sack

of peas or beans

has remained the

number of min-

utes required in the boiling blanch-

ing water, the sack should be

lifted out, drained somewhat and plunged into a basin of the cold-

est water to be had. This cold dip, like the hot

sterilizing one can do will not overcome the flat sour that would result. Many women who have little help have overcome the difficulty of picking a few peas at a time by placing all but a small quantity on ice-or in ice cold water. I often think that most vegetables, most vegetables, especially c or n, are like milk. Warm air and muggy, damp air will cause souring.

This often takes place before the veg- be left in this cold water only long etable is placed in the can. The be- enough to thoroly cool it. ginner will certainly succeed best if she then be emptied into the sterilized can, picks at one time no more of any veg- a-teaspoon of salt to the quart of proetable than will fill one can.

boiling water should be on the stove. If water is left off peas. One should One kettle of water we shall use for not open a can that has been pro-blanching. It is possible to have the cessed to add water unless she rejars tempering in the canner and to peats the processing for half an hour. place the filled cans beside them one at a time. If one has plenty of stove and cap should be placed in position. room a dishpan containing the jars The position for the rubber is lying is a handler vessel from which to take flat around the can. Care should be the hot cans. Demonstrators usually use the canner for sterilizing jars.

When we have shelled enough peas or broken enough washed beans or the thumb and little finger. Jars with cleaned enough asparagus to fill a can a glass lid and wire clamp should have we should tie that amount in a muslin the wire placed over the lid but not sack, or a dishtowel, cheesecloth or clamped down. Economy jars should mosquito netting and plunge into the have the lid placed in position and the ing. This blanching is really parboil-ing. It kills many germs. It removes immersed in the hot water bath. The

1—Examine cans, rubbers and lids.
2—Place canner of water on stove, also pan of warm water containing lids and rubbers and teakettle of hot water.
3—Piak vegetables early and a few at a time.
4—Blanch in boiling water. After each blanching empty basin and fill with fresh water from teakettle.
5—Piumge in cold water. Get fresh cold water for each sack of vegetables.
6—Pack in hot cans.
7—Place rubber and cap in position.
8—Place for canner, tighten lid.
10—Test for leakage by standing can on lid end, except when vacuum seal jars are used.

Steps in Vegetable Canning

one, kills germs. It also sets the color and shrinks the product. The vegetable should It should duct added, and as much real warm In placing one's equipment for work, water (boiled preferred) as is desired the canner, a small basin containing for reheating the product should be rubbers and lids, and two kettles of poured into the can. No harm is done

> When the can is filled the rubber taken to see that it is not on edge. The lid on Mason jars should be screwed as tight as it may be by turning with

Time Table for Scalding, Blanching and Sterilizing Vegetables

Products by groups.	Scald or blanch.	Hot- water- bath outfits. at 2120	Water- seal Outfits, 2140	Steam pressure 5 to 10 pounds.	Pressure cooker, 10 to 15 pounds
Special Vegetables.					
Tomatoes Pumpkin Squash Hominy Sauerkraut Corn, field Mushrooms Sweet peppers Greens Pod Vegetables and other Green Products.	13/2 3 3 5 10 5 5 15	22 120 120 120 120 180 180 180 90 90 120	18 90 90 90 120 120 80 75 90	$ \begin{array}{r} 15 \\ 60 \\ 60 \\ 60 \\ 90 \\ 60 \\ 50 \\ 60 \\$	$ \begin{array}{c} 10 \\ 40 \\ 40 \\ 40 \\ 60 \\ 50 \\ 30 \\ 40 \\ 40 \\ \end{array} $
Beans, wa x Beans, stringless Okra Peppers, green or ripe Cabbage Brussels sprouts Cauliflower	5-10 5-10 5-10 5-10 5-10 5-10 5-10 3	$\begin{array}{c} 120\\ 120\\ 120\\ 120\\ 120\\ 120\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	90 90 90 90 90 90 40	60 60 60 60 60 60 30	$ \begin{array}{r} 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 20 \\ \end{array} $
Root and Tuber Vegetables Carrots Parsnips Salsify Beets Turnips Sweet potatoes Other roots and tubers		90 90 90 90 90 90 90 90	80 80 80 80 80 80 80 80 80	60 60 60 60 60 60 60 60	$ \begin{array}{r} 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ -40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ $
Combinations and Scup Vegetables		1		1.1	
Lima beans Peas Vegetable combinations	5-10 5-10 5-10	180 180 120	$\begin{array}{c} \cdot 120 \\ 120 \\ 120 \\ 120 \end{array}$	60 60 60	40 40 /45

water should cover the jars. This ast boiling of the product in the jars ompletes the sterilization of the jars' ontents. It is known as processing.

have lids tightened and be stood on he lid end to see if there is any faulty eal. If any can shows leakage around he lid a new lid should be substinee he a new he should be substi-need and processing repeated for 20 ninutes to a half hour. Every housewife who hasn't a copy of Farmers' Bulletin No. 820 "

Every housewife who hasn't a copy of Farmers' Bulletin No. 839, "Home Canning by the One-Period Cold-Pack Method," should send to the United Kates Department of Agriculture, Washington, D. C., for one. It gives every step in cold-pack canning and horoly explains every detail.

To Make Sewing Easy

9607-Child's One-Piece Dress. Waist ength panels grace this little frock of otted Swiss. The dress underneath angs in one piece from the shoulders. Sizes 2, 4, 6 and 8 years. 9618—Ladies' Two-Piece Skirt. The draping at the sides of this skirt is plained by setting long straight pieces

f material into the seams and letting



t fall naturally in cascade ripples al-lost to the hem. Sizes 26, 28, 30, and 2 inches waist measure.

9633-Ladies' Dress. A wide sash hat becomes a waist panel in front is very new and decidedly attractive eature of this spring frock. Sizes 36, 8, 40 and 42 inches bust measure.

These patterns may be ordered from he l'attern Department of the Kansas armer and Mail and Breeze, Topeka, an. Price 12 cents each. State size ad number of pattern.

A Good Health Covenant

adion and rest. will not worry. Whatever fortune may bring mo worry. Whatever fortune may bring mo worry. Whatever fortune may preserving T will accept with calmness, preserving my equanifnity alike in seasons of adversity and of plenty. —W. A. EVANS, M. D.



intents. It is known as processing, the time required for processing (see able) is necessarily long. It may not be shortened with safety. Time should the counted only from the minute the counted only from the minute the starchy food such as rice, or macaroni. the substitute on the farm table igorously. When processing is com-bieled, the cans, if Mason jars, should the table is tightened and be stord on the farm table of the counter of the cans begins to boil the usual substitute on the farm table is probably a food of very different the table of the cans begins to boil the usual substitute on the farm table the counter of the cans is probably a food of very different the table of the cans begins to boil the cans begins to boil the usual substitute on the farm table the call is tightened and be stord on the farm table of the cans begins to boil the cans begins to be the cans be the hature. Beans seem to take the place of potatoes even tho they are largely protein. As they are heating by na-ture, they do not make an ideal hot weather food. They satisfy a hard-working person in that he doesn't get hungry quickly after eating them. For several reasons, we expect this year's crop of navy beans_wfll be exhausted before the next is harvested.

crop of navy beans will be exhausted before the next is harvested. For awhile, Lawrence papers con-tained an advertisement of a store's price for navy beans at 8½ cents a pound. When we sent for some, we found that supply exhausted and a price of 10 cents a pound the least quoted anywhere. We were eager to use the lower parts of the pork leg bones and shoulder blades. The meat value of the lower leg joints is not a value of the lower leg joints is not a Ten pounds of beans were soaked in cold water overnight, placed in jars and nearly covered with the meat stock. We cooked them in the presstock. We cooked them in the pres-sure cooker for $1\frac{1}{2}$ hours at 15 pounds of steam pressure. The dollar's worth of beans filled 14 quart jars with a few beans to spare. We used tomato sauce for some but doubtless the meat stock had more value. The cost of our 14 quarts, bought canned, would have hean 3250 We think the time well been \$3.50. We think the time well spent in canning the beans as the bones used were' in best condition and two heat periods cooked beans for 14 meals instead of 14 heat periods for as many meals.

If we should depend upon our or-chard for the filling of our empty cans, it is doubtful if they would be filled. It now appears that the peaches, pears and most of the apples were killed by the frost. Blackberries suffered, too. Hopes of extra early potatoes were dashed by the frost April 26. We regret our lavish use of the fruit canned last year. Substitutes will have to be found for apples and pears. Fortu-nately some orchards hearby were not so seriously affected.

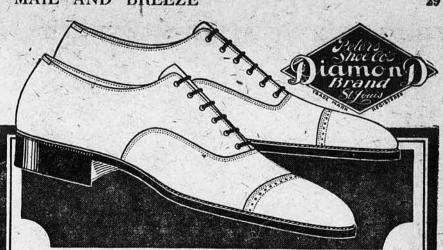
We suspect rhubarb will not be greatly in demand for spring sauce. The sugar situation is not such as to make the average housewife turn much to rhubarb. She could well experiment with canning some in cold water. The best canners pour water into the cans until all air bubbles have disappeared and then seal. The process of drying is applicable to rhubarb, too. Some have succeeded who did not blanch before starting to dry but the most ex-perienced blanch about 3 minutes before starting the drying process.

A feader has written asking what A reader has written asking what material was used in ridding hens of lice and what would make a good spraying material for the chicken house. We used sodium fluoride for dusting the hens. Poultry bulletins recommend that more than any other material. It seems to be most efficient. A few pinches worked into the feathers in the fluff, under wings and so forth are all that is required. A hen set on eggs should be dusted when placed on the eggs and again in 10 days. We often hear that hens leave the nests

A Good Health Covenant pledge myself to so live that I may be theat my laws: sing not to violate the rights thereof by atts of omission or commission. sing not to violate the rights thereof by atts of omission or commission. another portion for play, and another por-tion for roy lay, and another por-tion for roy lay, and another por-tion for roy lay, and another por-tion for realth, and I will give to each ap-propriate energy and thoughtfulness. will acted the basis which the strong at the schewing all those habits which the strong at the schewing all those to the strong at the schewing at those to the strong at the schewing all those to the strong at the schewing all those to the strong at the schewing at those to the schewing at those to the schewing at those to the schewing at the schewing

make use of my muscles in work or during some part of each day. As but keep my mind in that state of and rest. the solution of recuperthe spray pump and hose are badly affected by kerosene, however.

Mrs. Dora L. Thompson. Jefferson Co., Kansas,



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The oxford illustrated is a typical "Diamond Brand" style—the shoe for you because it combines the three essentials of shoe satisfaction—Style—Comfort—Service.

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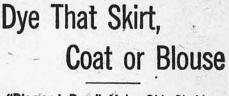
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Look for the Sign of the **Grain-Saving Stacker**

THE Grain-Saving Wind Stacker saves the grain wasted in the ordinary process. It saves enough, in fact, to pay the threshing bill.

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For this reason the Grain-Saving Stacker is the most important improvement in threshing machinery that has been developed in the last twenty-five vears.

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FOUR GREAT MEN—WHO ARE THEY

Can you name the four Presidents? This puzzle represents four United States Presidents. Who are they? Try and name them—it will be great fun. If you can name the four Presidents, send in your answer at once together with the coupon, and I will tell you all about the Ponies which are going to be given away FREE.

3 Shetland Ponies Free

Three Ponies, Buggy, Harness and Sad-dle are to be given away ABSOLUTELY. FREE. These are exceptionally pretty ponies, and as gentle as can be. All trained to ride and drive. Say to yourself, "that pony, buggy and harness can be mine, because it is going to be given to someone who sends in the coupon below." No cost-mo obligations, but you must send in the coupon TODAY.

Every Club Member Rewarded How to Join Club

As soon as you send in your answer to the above puzzle with the coupon. I will immediately send you four big tards to distribute on my special 25c offer. Everyone wants these beautiful offer. Everyone wants these beautiful market. When distributed you will be and you will receive a 46 page book of MUTT AND Distribute free and postpaid, as an extra premium for joining the Club. Many do it in an hour's time. Mail the coupon right now—TODAY.





E. McKenzie, Pony Man, 700 Capper Bldg., Topeka, Kan. I enclose my solution to your puzzle. Please send me four packages of Post Cards and full particulars regarding the Pony Club. Name St. or R. F. D.....

-10

1000

For Our Young Readers

Dad and Louise Make Plans for Mother's Day BY KATHLEEN ROGAN



Louise Chooses a Red Rose

it was her Mamma's Day. She asked

"But why, Daddy?" asked Louise.

churches have special programs for her on that day," he added. "Why, it's just like Children's Day,

except it's for mothers," cried Louise. Will mother have to speak a piece or

and everybody else would entertain her.

"Who first thought of Mother's Day?" asked Louise presently. Her father explained that the origin of the custom dates back to 1907, when Miss Anna Jarvis invited a friend to her home to commemorate the date of her mother's death. During the day the daughter told her friend of her desire to dedicate a day to all mothers. The following year the mayor of Phil-adelphia issued a proclamation calling upon the people of that city to celebrate the day in their churches and The custom spread rapidly to homes. other cities and has now become national and international.

"Then just because some one loved her_mother, she wished everybody in the world to love their mothers?" asked Louise, and added slowly, "Wouldn't-it be wonderful to start the whole world to doing something! Do you suppose, if I told the mayor of our town that L wanted a day in which to love little brother, he'd make everybody love their little brothers, too?

But Daddy explained that Children's Day is for little brother. For a while Louise pondered about what she had learned about Mother's Day. "But why did my chum say she was going be packages of postcards for the to wear a red carnation Sunday?" she six boys and girls who send in correct asked at last.

"A flower worn on this day shows Solution April 24 Puzzle—The work respect for one's mother," replied her are: Increase, release, please, appear father and told the little girl that the grease, cease. Prize winners are carnation is a fitting emblem of a Hazel Grimm, Eskridge, Kan.; Georg

ADDY," asked Louise, "what is purity, its fragrance, its field of "Mamma's Day?" growth and it's lasting qualities. A "Mamma's Day?" Dad was bright flower is worn for the mother be in living and a white flower is puzzled. _______ who is living and a white flower for "Yes," replied Louise. "One of the her who is gone, he explained. The girls at school said she was going to wearing of a flower for her is but one means a red carnation Sunday, because of the ways of honoring her, he added,

The day may be marked by any distinct act of kindness toward her. Gifis show affectionate remembrance.

Louise was silent for a little while Then, "Oh, Dad, aren't we glad we can wear red flowers," she exclaimed "Let's go now and choose them. We can select our gifts, too. I know just lots of things mother'd like to have And won't she be glad when she gets them !"

Adam and Eve are Rabbits

We have four rabbits on our farm, two old and two young. We call the old ones Adam and Eve, because they were the first rabbits on our place. They are about 1 year old. The young ones are about 6 weeks old, and have not been named yet. Adam and Eve are quite tame, but the young ones are rather -wild. Our rabbits are New Zealand Reds.

I was feeding Eve one night when I saw three little rabbits in front of her house. I was very much surprised and delighted to see them. Of course, I ran in and told the folks about them. The three died and for awhile we thought she had not any more. But there were two more. The weather was poor and the mother rabbit did not bring the little ones out from the nest of fur she had made for them until they were nearly 3 weeks old. Then they only got out of the nest for

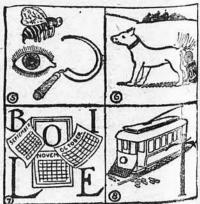
a few minutes each day. Adam has to "batch" while his wife keeps house and tends to the babies. Adam's house is a small box with a wire run attached. Eve and the babies to wear for my Mamma." "Oh. yes," said Dad. "Every year the second Sunday in May is set aside as Mother's Day." Adam's house is a small box with a wire run attached. Eve and the babis live in a house made of two large packing boxes tacked together Au old incubator tray is fastened at the from the for their window. front for their window. Sometimes the "But why, Daddy?" asked Louise. Then Louise's father explained that it is a day to honor one's mother. "The churches have special programs for her on that day," he added. They like to sit by the window in the sunshine and watch what is going on Inside the house in one corner. is their bed. It is made of straw, but they like it just the same.

be in a flag drill as we do on Chil-dren's Day?" she asked engerly. But Dad explained that mother wouldn't take part in the program, but that she would be the guest of honor and everyhody else would entertain the time, and for breakfast they get that she would be the guest of honor and everyhody else would entertain the time some oatmeal that has been left over from our breakfast. For supleft over from our breakfast. For sup per they get corn, parsnips, oats cooked potatoes, or sometimes a mash made of cooked potatoes and cornmed or shorts. Dorothy Dirks.

Butler Co., Kansas.

What Four Vehicles?

The names of four vehicles are rep resented in this puzzle. When you have found them send your answers to the Puzzle Editor, Kansas Farmer and Mal and Breeze, Topeka, Kan. There will



firs

Solution April 24 Puzzle-The words mother's love because of its constant E, Soukup, Wilson, Kan.; Clarence

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May 8, 1920.

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Individual competition in exhibits to he shown at the Jamboree will con-sist of models of engines, stamp collections, diaries or scrapbooks and arts and crafts exhibits. These must be in the hands of the National Council June 1 and must first have been passed upon by a committee of experts and the local examiner of the boy making them. Entry blanks will be supplied by Chief Pioneer Scout, Boy Scouts of America, 200 Fifth Avenue, New York City.

Inseparable Companions

Charles Swain and his dog are in-separable companions. Wouldn't you like to play with a big fellow like this?



Charles thinks he is just as fine a playmate as any boy or girl could be. The two companions have many fine romps together.

Letters to a Farm Girl

(In this letter Mr. Case gives "hope" as the second foundation stone in the building of character. A really worth while char-acter cannot be formed without the first stone, faith, and hope.)

Dear Elsie: Yesterday I found a little wood flower peeping thru'the surround-ing grasses, lifting its timid face to-ward the sun. Grim winter has scarcely left us and even now there are snow patches from the latest storm. But something told that flower that something wild be only gentle showsoon there would be only gentle showers: that the sun would shine brightly all day long; that others would come trowding upward to bear it company. That flower had faith and linked with it, hope. To me it seemed an emblem of both and it brightened a day that was chill and gray. At first I thought I would pluck the flower and send it to your but the second send it to your an and send it to your a second send it to your and you but surely so brave a thing should live.

Hope is the second foundation stone. Without it we farm folks could not live. No matter how distressing a season may be, the next spring finds hs turning with renewed hope to the tasks in tasks in hand. Always we live in the promise of the future and altho hope deferred may make us heartsick, with the coming of spring we forget the past and carry on. So the farm girl lives in the wholesome atmosphere of hope which helps to instill self-confi-dence dence. Hope is a good comrade but if the things hoped for come true, it must work hand in hand with its twin faith and he conved by the twin twin, faith, and be served by the twin heipers perseverance and industry.

In these crowded days of your school

A Stranger

Gray, Luray, Kan.; Blanche Hamon, Valley Falls, Kan.; Lila Hahn, Glen Elder, Kan.; Ray Castetter, Lost Springs, Kan. Boys to Attend Jamboree Fortunate are the boys who will be chosen from the Pioneer Division of the Boy Scouts of America as dele-gates to the International Scout-Jam-boree to be held in London July 30 to August 7. Some of the points which will be considered in selecting the boys are merit badges, general scout-like spirit in conduct and general appear-mere as to uniform, equipment and so

faith of woman transcends that of man. Not long ago it was my good fortune to attend one of the mission meetings

gates to the International Scout-Jam-borce to be held in London July 30 to August 7. Some of the points which will be considered in selecting the boys are merit badges, general scout-like spirit in conduct and general appear-ance as to uniform, equipment and so forth. Each delegate is required to spend at least 10 days in New York before the date of sailing, so that he may be given the necessary training and instruction. Individual competition in exhibits to forth the formula in the state of sailing in the days to come that you will of Him. Even the blind kept their and in my first letter that the his hands and blessed them hore them and state of sailing in the days to come that the the base and stretched out in the state of sailing in exhibits to forth the necessary training is the state of sailing in exhibits to and instruction. his hands and blessed them hope transfigured every face.

Sincerely, your friend, John Francis Case.



A whole gallon of watch oil will not lubricate an aeroplane motor.

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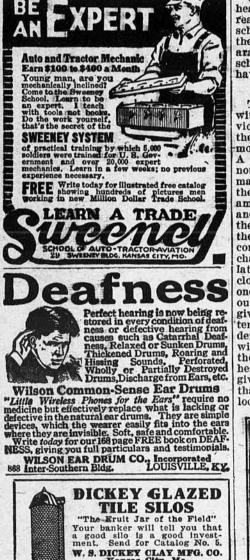




You can lift off any hard corn, soft corn, or corn between the toes, and the hard skin calluses from bottom of feet.

Apply a few drope of "Freezone" upon the corn or callus. Instantly it stops hurting, then shortly you lift that bothersome corn or callus right off, root and all, without one bit of pain or soreness. Truly! No humbug!

Tiny bottle of "Freezone" costs few cents at any drug store



Health in the Family

BY DR. CHARLES H. LERRIGO

SERVICE in this department is renname of the doctor at present in charge dered to all our readers free of of the health car is Dr. Carr. charge. Address all inquiries to Other persons than mothers and Charge. Address all inquiries to Dr. Charles H. Lerrigo, Health De-partment, Kansas Farmer and Mail and Breeze.

Kansas Health Car, "Warren"

Do you know that you are part owner and proprietor of a Pull-man car? This car was pre-sented to the Kansas state board of health in 1915 by the Pullman company and thereby became the property of the state. Dr. S. J. Crumbine obtained the car on his personal representation to the Pullman company of the great value it would be in presenting to the people of Kansas a traveling exhibit showing flicted with tuberculosis may receive how they should conduct their methods full information as to the way in which how they should conduct their methods of living in order to be "healthy, his suspicion may be cleared up, at wealthy and wise." Since the car was as to the proper method of treatmen put into operation, it has traveled and a complete restoration to health. about 4,000 miles. Perhaps you have The great subject of venereal di seen it standing upon the side track in your own town. It is named the "Warren" in memory of Warren Crumbine, a bright young Kansan, the only son of Dr. S. J. Crumbine, who died in China, where he was undertaking some pioneer work in food supplies. For the remainder of this senson, the car will be in some of our western counties on the Chicago, Bock Island & Pacific railway, and among them

will be Kiowa, Meade and Seward. Of course, the chief business of this health car is educational. When it reaches a town, the superintendent of schools, the city officials and usually the club women are notified, and it is aranged as far as possible that the school children and their parents shall have the opportunity to visit it.

Special Attention to Mothers

There is a woman doctor who travels with the car and is ready to give advice on all problems, and especially those concerning the health of babies, mothers of babies and older children. A mother who feels that her child is not doing as well as might be expected, may take the little one to the car and the doctor will give a very careful ex-amination. She will weigh the baby and measure her; she will find out how the little one is being fed and will tell make our teeth crooked. We should the mother how the feeding should be conducted to give the baby the best chance for easy digestion and assimilation. She will show the best kind of may have germs in it. clothing in which to dress the little "A well should be placed on a high clothing in which to dress the little "A one, and there is even a complete bath place outfit so that a demonstration can be given as to the proper manner of attending to the various little intimate details of the baby's toilet. The doctor will do anything that can be done in the way of giving advice as to the health of the child, but stops short of giving medicine or any of those things that are legitimately the work of the

local doctor. Strangely enough, the garden, nor all the garden in the hens.

THE REPORT OF STREET, STREET, STREET, AND

children may gain a great deal of help-ful information from the car, however. It is true that special stress is laid on child training, upon the condition of the teeth, upon the matters of adenoid growths and diseased tonsils, but in addition to all of this, there is much information that makes for the general community health. The farmer, for example, may find out just what kind of water supply is safe for his farm, how a septic tank may be installed and how modern improvements may be added to a farm house.

The person who suspects that he or some member of his family may be afhis suspicion may be cleared up, and as to the proper method of treatment

The great subject of venereal dis-ease that is now recognized as of so much importance also receives attention from the doctor on the health car. There is literature on almost every subject pertaining to health and hygiene, carried for free distribution, so that when the car goes away from a town, it leaves behind it a great deal of food for thought.

A School Boy's Impression

To find out what impression was left on the minds of the school chil-dren by their visit to the car, they were asked to write papers describing what they learned. The following story was written by a fifth grade boy: "This car that we visited was a

health car. Dr. Crumbine sent it out into the state to prevent the people from getting diseases. We should get plenty of fresh air by sleeping on the porch and leaving our windows open at night so we won't get tuberculosis. We do not care to have tuberculosis. The germ might live in an old dirty house. If we let tuberculosis go too long it cannot be cured and if we eat healthy foods and get plenty of fresh air and right kind of exercise it can be cured.

"We should breathe thru our nose. If we breathe thru our mouth it will wash our teeth to get all the food from spaces between our teeth. We should be careful about the water because it

place so the germs can't get into the well. Toilets should be screened with wire. Flies carry germs. We should poison a fly. Milk is our best food. Our food should be clean. We should eat less meat and more vegetables. "We should keep our bodies warm in the winter."

The hens do not belong in all the





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May 8, 1920.

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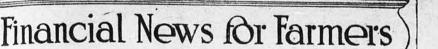
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BY R. M. CLARK

A STILL stronger tightening up on loans was the more notable de-velopment of last week with the bankers of the whole country discour-aging non-essential investments and ithe bankers and investments and ing a handicap. with the East giving preference to mercantile loans and the Middle West giv-ing preference to grain, livestock loans and mercantile loans. In the bread basket country the steady tightening up on loans is showing a marked ef-fect on the operations of the men who in almost every community trade in in almost every community trade in land. With a dozen calls for every dollar there is to lend, the experienced investors are picking carefully among the safest and best securities, which naturally are those that supply the most needed necessities.

Fake Securities Are Active

In contrast to this canniness of the investors of experience is the gulli-bility that is being shown throut the Middle West by wage earners and farmers in investing small, and some-times large, savings in fake securities and wildcat oil stocks. Hundreds of millions of dollars have been taken from men of small incomes recently, and still the harvest continues. During the war the government kept an eye on the fake stock and bond salesman who offered his paper for Liberty Bonds, but since government surveillance has been removed the promoters of fraudulent stock deals have un-carthed a bonanza in trading for Lib-erty Bonds. One of their chief "in-ducements" is to offer to take Liberty Bonds at par for their securities. Don't trade. Get your banker to buy Liberty Bonds or some one of the hundreds of safe bonds, if you invest or change your investments.

Why the Banks Must Be Stingy

A few years ago a loan for \$750 would handle a car of wheat. Now the same deal requires upward of \$3,000, produce, flour, livestock, all commodities on which the banks must provide money to carry on business provide money to carry on business new require two to three times as much in loans as formerly. The same is true in mercantile stocks. From the city bank down to the little country bank, the business of the community requires much larger loans than a few years ago. Coupled with this condi-tion is the fact that thruout the bread years ago. basket country the banks have been called on to carry short loans overtime because the switchmen's strike so disrupted transportation that traffic recovering slowly and shippers were delayed in realizing on their shipments. customers to be accommoold dated and with new demands con-stantly rushing in the banks are fighting to keep their loan accounts down.

Wall Street Combinations Inactive Operations on the New York Stock Exchange for the week may best be described by the somewhat indefinite term. "so-so." There was a seeming lack of interest by buying pools, ap-parcently the result of the banks holdhg back. A few speculative stocks hade fair gains and there was a genrecovery from the bearish market previous week, but on the whole tendency was to sell on small is on the upturns. Call money to 10 per cent for a brief hour, dropped back to 8 and 9 per cent. New York curb market saw heavy in several oil stocks and in a industrials, owing, seemingly, to even developments and the strin-ev in the money market and not to apparent change in properties rep; ited. The English pound sterling ened, going to about \$3.80, a drop ¹⁹⁴ cents from the high mark of 5. German marks at around German marks at around s were stronger. French cents as and Italian lire were weaker.

Government Expenditures Huge

government is spending money rate of 18 million dollars a day he fiscal year that will end June This tremendous outlay is having

Strongest Protest Yet

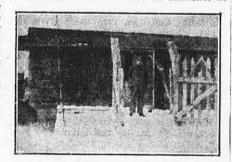
Of all the protests against the present meat packing and distributing system of this country, the action of 70 farm families in Douglas county, South Dakota, deserves first honors as being really effective. While other producers and consumers of meat have been lambasting both packers and retailers of meat products, passing resolutions at their meetings, and sending delegations to Washington, this community of South Dakota folks organized a "meat ring." All thru the winter these families have had fresh meat delivered to them regularly at about half the cost of the same meats in the butcher shops of their towns. For example, while steaks were retailing at 40 to 50 cents a pound, members of the meat ring were getting theirs at 18 to 25 cents. They paid 13 to 18 cents a pound for roasts, 9 to 13 cents a pound for boiling meat, and so on. And while buying the best of meat at these low prices, the members received top prices for such stock as would meet their requirements, for only the choicest animals are selected for butchering to supply the organization with meat.

A manager, chosen by the members, attends to the buying of the animals, their killing, cutting up the meat, and apportioning the cuts. Thru the winter killing was done on Friday, and cutting and distributing on Saturday. The point of killing and distribution is out in the country, $2\frac{1}{2}$ miles from the nearest town. The territory supplied radiates out from 5 to 8 miles in all directions from this point. Deliveries are made by neighborhood groups, by some member of each group on the turn about plan.

Literature sent out by the ton from the packers' publicity bureaus declares their system of killing meat animals, and their distribution system the most efficient that have been or can be de-vised. The utilization of all byproducts, they say, makes it possible to handle the meat at a minimum of expense, and any plant not equipped to utilize the byproducts in this way cannot compete with them. But byproducts or no byproducts, this South Dakota community has cut its meat bills in half, and seems to have all the best of the argument when it comes to a question of efficiency in distribution.

A Modern Sod House

The sod house owned by J. A. Chessmore near Atwood is one of the few remaining "soddies" left in Kansas. It



probably is the only one in the world lighted by electricity. This is supplied by an independent plant purchased for this purpose!

Guard Against Farm Fires

Farmers Bulletin No. 904, Fire Pre-vention and Fire Fighting on the Farm, in a revised form, has just been issued by the government. It contains many suggestions of the greatest value to men who wish to prepare against fire losses; it should be in the library of every Kansas farmer. It can be ob-tained free from the United States De-partment of Agriculture, Washington, D. C. Why not send a request, on a This freemendous outlay is having finited field that the transformation of a sound effect on putting the country partment of Agriculture. Washington, $a_{\rm res}$ on a sound basis. Approximately D. C. Why not send a request, on a sound basis. Approximately D. C. Why not send a request, on a axes. With the usual May time de- you forget it?



teen years. Handy tin boxes of 12 tablets cost but a few cents. Also larger "Bayer" packages. Aspirin is the trade-mark of Bayer Manufacture

of Monoaceticacidester of Salicyl-

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How to Prevent White Diarrhea

Dear Sir: I have raised poultry for years and have lost my share of little chicks from White Diarrhea. Finally I learned of Walker's Walko Remedy for this disease, so sent for two 63c pack-ages to the Walker Remedy Co., Dept. 46, Waterloo, Iowa. I raised over 500 chicks and never lost a single one from White Diarrhea. Walko not only pre-vents White Diarrhea, but it gives the chicks strength and vigor—they develop quicker and feather earlier. I have found this company thoroughly reliable and always get the remedy by return mail. Mrs. L. L. Tam, Burnetts Creek, Ind.

Don't Wait

Don't wait until White Diarrhea gets half or two-thirds your chicks. Don't let it get started. Be prepared. Write today. Let us prove to you that Walko will prevent White Diarrhea. Send 63c for box on our guarantee-your money back if not satisfied. Walker Remedy Co., Dept. 46, Waterloo, Ia.

SAVED 500 CHICKS

Dear Sirs: I used to lose about half my little chicks with white diarrnea until I found a simple way to save them. Two years ago, after losing about 200, a friend gave me some tablets to put in their drinking water. After that I did not lose a chick. The remedy is called IOWITE Chick Tonic little chicks with white diarrhea and is sold in 52c boxes by C. E. Wight, Lamoni, Iowa. Last year I raised over 500 chicks and with the help of Chick Tonic I did not lose one with white diarrhea or bowel trouble .--- Mrs. Frank Myer, Tecumseh, Kansas.

Send No Money

Do you want to save YOUR little chicks? Just write Mr. Wight, saying, "I want to try Chick Tonic." He'll send you three 52c boxes. You pay the post-man \$1.00 and postage. The extra box is FREE. IOWITE Chick Tonic is ab-solutely guaranteed—your money back if not satisfied. Send to

Capper Poultry Club ELES OF AND

You Simply Can't Discourage Kansas Girls BY MRS. LUCILE A. ELLIS Club Secretary

meet difficulties is so noticeably dif- causing us to go over this embankment, ferent that I feel it deserves mention. but one wheel caught in a tree as we "All the girls seem to be doing fine in were going down and held us there. our club and they never get discour- We all got out of the car and found a aged when they have bad luck," wrote man to pull it back into the road. It Ella Bailey, member of Atchison county. was damaged considerably and we chil-Ella Bailey, member of Atchison county. "Just think how you would feel if you set a hen and the old hog would eat all 15 eggs! Well, Ruth Banks had this



Marjorie Emery, Crawford County.

kind of luck. Did she stop and give up because she had had bad luck? No. She just put forth more pep and went Then she set a hen on 15 eggs on. and every one of those eggs hatched." And girls in Republic show the same kind of pep that Atchison county girls do. "I just wish you could see my little chicks," said Alice Pressnall. "They are beauties. I have 67 of them. I set 108 eggs but the incubator didn't run steady so they didn't hatch good. But I'm not a bit discouraged, for you know the old saying, 'A bad beginning makes a good ending.' I am hoping for better success next time. I call my little chickens my gold dollars. pullets are doing fine, too. I got eight eggs one day."

After you read this letter you'll really begin to think that all of these girls have been reading "Pollyanna." You know Pollyanna always found something to be glad-about. You've read the book, haven't you?

"I had a little bad luck," wrote Ruth Sims, leader of Osage county. "I set two hens in a large coop and when that April storm came the snow drifted into the coop and completely covered one hen. The other hen was off her nest, sitting on top of a drift in the coop, so all of her eggs were frozen. The next morning we threw away the eggs that were frozen and kept the others in the house for a few days till the snow melted. Then we cleaned out the coop and put the hen and eggs back in it. My sister turned out her pet pig and it went nosing around and knocked the door of the coop open, rooted the hen

Leavenworth county has adopted "Smiles" as their club song and for their motto, "Have a Smile." As one their motto, "Have a Smile." As one of the members of this club said, "When you go to the hen house and don't find an egg you certainly need a smile."

Even accidents can't keep club folks away from county meetings. When they start anywhere they go, and that's all there is to it. This letter from Edith Grover, the Coffey county leader, describes a part of the trip to their There is a big future for motor ex-third meeting. "Papa was driving press routes in Kansas; they are prof-

T ISN'T vey often that we tell hard bridge with an 8-foot embankment, also luck stories, but the pirit of Cap a deep mud hole. One wheel got in a per Poultry club girls when they rut and twisted the other wheel around, dren were bruised up, but the engine would run, so we went on to the meeting." As I said before, "Nothing stops them."

It's certainly fine to be secretary of club of about 350 girls and their mothers, all of them showing so much pluck and enthusiasm. I read an especially good letter and say to Mr. Whitman, the pig club manager, who sits about 6 feet from me, "I don't like to bother you, but just listen to what this girl says." He's always very polite about it and seems to enjoy hearing about things that happen in the Capper Poultry club.

The picture I am using today is of Marjorie Maxine Emery, a little cousin of Letha Emery, who was leader of Crawford county in 1919. She's going to be a member, too, when she's a few years older.

A Prize Winner's Contest Story

This is the contest story of Ruth Wheeler, Coffey county, who won third prize in the open contest. Ruth raised 145 chickens from her pen of eight Rose Comb Rhode Island Red pullets and a cockerel. Her profit was \$292.03.

"In February, 1918, I decided to join the Capper Poultry club. I saw how many excellent advantages the club offered to young folks and determined there should be more girls in my county who would receive this training. To awaken county pride I put write ups in the county papers, asking for more members and telling them what a lot of pleasure and good times we have along with our training. Finally I received word that our county membership was complete.

"In December, 1918, I bought my cockerel for my pen in the club for 1919. Then February 1, I penned my eight pullets and cockerel. They were the Rose Comb Rhode Island Reds. I chose this breed because they are such large birds, excellent table fowls, good layers and there is always a large demand for them. "When I had gathered enough eggs

to set, I borrowed some of Mamma's hens and set them. When my chickens were first hatched I gave them oatmeal, sand, bread crumbs and chick feed, five or six times a day. When they were 6 weeks old I began to feed them larger grains such as ground kafir, wheat and corn, bran, chick feed and crumbs from the table, and then they were given the range where they gathered worms and grasshoppers.

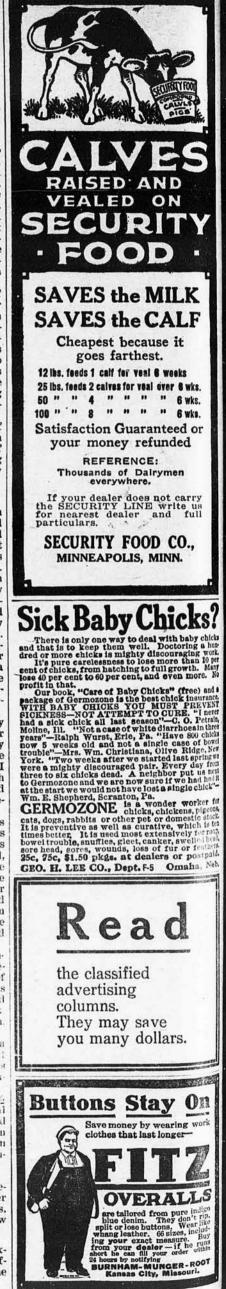
"I fed my hens wheat in the morning, oats at noon and corn in the eve-I always gave them plenty of ning. fresh water. I put 'more egg' tablets in their drinking water once a day and permanganate potassium twice a week I also fed a mash consisting of bran. green alfalfa leaves and kafir.

"In October I began feeding them a hot mash at noon composed of men scraps, potatoes, potato parings, oats and corn. I also gave them hot dishwater to drink.

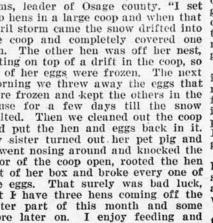
"My cockerels now weigh from 7½ to 8 pounds. One day that one of my cockerel's comb and gills were frozen. To keep him-from losing them L placed a bag of snow on the frozen parts and then applied linseed oil several times."

There has been an encouraging development in the growing of better horses in Kansas in the last few years, due largely to the stallion registry law and to better feeding.

if not satisfied. Send to pretty fast to get up a steep hill. At itable both for the owner and for the bottom of the hill there was a farmers who are his patrons.



May 8, 1920.





Filipinos Know Good Thing When They See It

BY EARLE H. WHITMAN **Club** Manager

H how widely the Capper clubs are that not only all over the United States but even farther away than that States but even farther away than that I 'phoned again and found that the folks know about our club work? The calves were there. We started out in other day a letter reached the club the rain, then the rain stopped for a manager from a boy away out in the while. On the way home, tho, it started Philippine Islands. "An American again. We got home at last, and I Filipino, and his name was Diego send a picture of them as soon as pos-Jurisprudencia. Isn't that an odd one? sible." Well, this chap was a mighty intelligent boy, and he wrote his application for membership in the Capper clubs on a typewriter, more neatly and using much better English than I have read on some applications from Kansas boys. Doesn't that make you feel that we should all be more careful about making use of our advantages, when a boy away off in another part of the world has made such good use of his time? No, Diego couldn't be accepted as a member of our club, but I regretted very much that I couldn't enroll him.

Joint Meetings are Fun

Good times already are beginning for Capper Calf club members. I have purposely delayed appointing county leaders until after the time for calves to be entered, but the lucky members to be entered, but the lucky members will be chosen soon, and then the calf club will feel as if it is represented when all the Capper clubs get together for county meetings. "The Capper clubs held an all-day meeting at our place the other day," writes Clyde Bar-rett of Dickinson county. "All of the members of the different clubs were here with the acception of one calf club here with the exception of one calf club nember." Line courty calf club mem-bers are meeting, also. "Nothing like lining out, even if our leader has not been appointed," says Hazel Horton. "1 do not mean a regular meeting, but as we attend the other meetings, any-way, we can just get off to one side and talk calves a little." That's the idea, all right, and I'm sure that soon calf club members will be making their presence known at meetings, even if the pig and poultry club boys and gives do outnumber them. In Linn county especially I'm sure of this, for liazed Horton is the girl who led the positry club team of that county to victory in the fight for the trophy cup in 1919 in E019.

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Joint meetings are just the thing, but one rule should be observed, which is that the different clubs hold separate the organization distinct from the there. "I favor joint meetings." writes George Roberts, Jr., of Meade bold a meeting once in a while to talk over matters of interest only to mem-

Here's a Girl with Pep

being in close touch with my club members is a genuine pleasure. I am interested in all their work, so you may be sure I enjoyed this good letter from Eva Leatherman of Butler county: am going to tell you about myself. I live on a farm 1¼ miles from Latham. The farm contains 360 acres, with some timber and running water, also a spring. Father has a great many sheep which are very profitable. We also keep a large herd of Red Polled cattle, and father is going to supply the calves for me to enter in the contest. I am Very sorry we haven't a calf club in our county, because I surely would like to go to the club meetings. I tried to for go to the club meetings. I tried to fer more club members, but very few were interested. I am very eager to begin work. Father will have my stauchions built soon. I joined the Boultry club last year, but was ill with polity club last year, but was ill with pneumonia and didn't get to finish the work work. I like the calf club better, and father also is more interested.

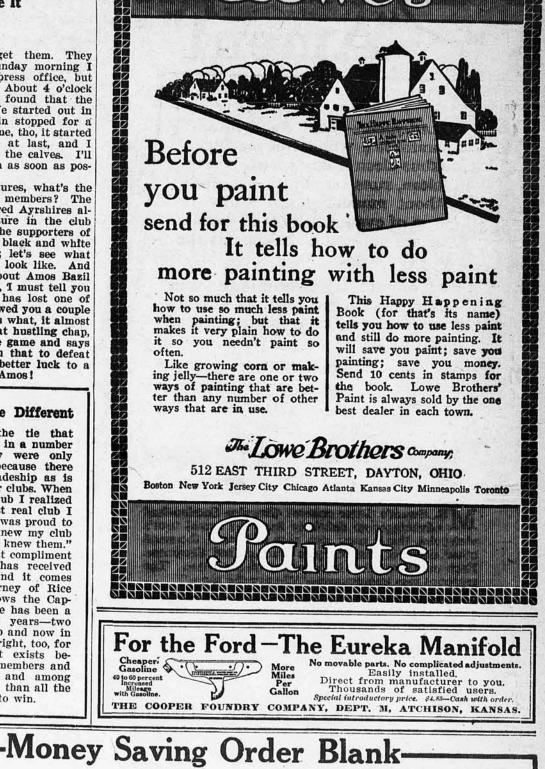
Haven't we been having "pesky" venther? John Morschauser of Geary weather? county thought so when he went to town to get his calves. "I got a card Friday saying they had been shipped Thursday," says John, "so I went to

AVE you ever stopped to think town Saturday to get them. They how widely the Capper clubs are hadn't come, tho. Sunday morning I known? Have you ever realized telephoned to the express office, but couldn't get a reply. About 4 o'clock I 'phoned again and found that the calves were there. We started out in

Speaking about pictures, what's the matter with calf club members? The one boy who has entered Ayrshires already has had a picture in the club news, but where are the supporters of other breeds? Lots of black and white other breeds? Lots of black see what calves in the contest; let's see what while we're talking about Amos Bazil and his Ayrshire entry, I must tell you the bad news. Amos has lost one of those fine calves I showed you a couple of weeks ago. Tell you what, it almost took the pep out of that hustling chap, but he's staying in the game and says it will take more than that to defeat him. Here's wishing better luck to a plucky fellow such as Amos!

Capper Clubs are Different

"Friendship is the tie that binds. I have been in a number of clubs, but they were only partly successful because there was no such comradeship as is shown in the Capper clubs. When I joined a Capper club I realized that it was the first real club I had belonged to. I was proud to tell friends that I knew my club manager as well as I knew them." That's about the best compliment the club manager has received in a long while, and it comes from Waldo McBurney of Rice county. Waldo knows the Capper clubs, too, for he has been a member for three years—two years in the pig club and now in the calf club. He's right, too, for the friendship that exists between Capper club members and the club manager, and among themselves, is better than all the prizes it is possible to win.



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Gentlemen:-Your Suction-feed Separator is a wonderful machine. It skims clean at any speed, is easy to clean, runs smoothly, oils itself without mussiness, and delivers cream of even density at all speeds. It never gets-out of balance as the disc-bowls do.

I cheerfully recommend the Sharples Suction-feed to anyone wanting the best cream separator on earth.

> Yours very truly, (Signed) L. C. SWEET Alden, Minn.

> > MATINA CHAM

MR. Sweet's letter covered Sharples Suction-feed advantages so definitely from the actual user's viewpoint, that a copy was sent to several thousand other users of the Sharples Suction-feed Separator. Each user was asked to comment on the letter. The response was unanimous:-"We say the same."

One type of Sharples Suction-feed Separator is electrically operated with current from farm lighting system.

It is costing you more to be without the Sharples Suctionfeed than it would to buy one. Write for catalogue, addressing nearest office. Dept. 15





You don't try to shoot ducks at night, so why "shoot in the dark" when you have something to buy or sell. The 125,000 readers of Kansas Farmer and Mail and Breeze fall naturally into the classes of buyers and sellers for myriads of articles. A classified ad shoots straight to the mark; it isn't a matter of luck.

Classified Buyers

Reach

Sanitary Milk is Safest

Modern Dairy Equipment Will Prove Profitable BY JOHN W. WILKINSON

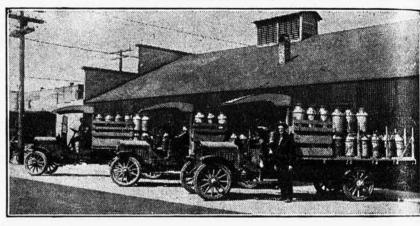
S ANITARY milk is the only kind of Cows should be kept free of all multiple of milk that is safe and fit to use. dust, dirt and loose hair. Their bodis By sanitary milk I mean milk from should be brushed regularly twice is healthy cows, produced and handled day. From 5 to 10 minutes before the nearthy cows, produced and handled day. under conditions in which contamina- cow is milked her udder and flank tion from filth, bad odors and bacteria should be carefully washed with clean is reduced to a minimum. There is ab-solutely no excuse for the filthy sur-roundings often found in some barns treatment will prevent the dislodgment of any dust or locse heir a prime. and dairy plants. Among the conditions necessary for

the production of sanitary milk may be mentioned the following: Healthy cows, sanitary barns, clean feed lots, clean cows, clean milkers and clean milking machines, sanitary pails, strainers and machines, sanitary pails, strainers and milk vessels; clean, wholesome feed; pure water; well lighted, and properly ventilated barns; comfortable stalls and clean bedding; sanitary milk room; and thoro cooling of the milk after the milking has been done. Healthy cows always will be the first requisite in the production of conitory

requisite in the production of sanitary milk. All animals affected with dan-

is milked her udder and flank of any dust or loose hair at milking time. The milker also should see that the cow's switch and every part of he body is scrupulously clean before mill.

ing is attempted. Clothes worn during the day often catch a great deal of dust and genu of various kinds. For this reason even milker should have a clean, white mik-ing suit that should be worn at mik-ing time. All utensils used in the handling of milk should be made d good tin and should be made along strictly sanitary lines. Specially cos structed sanitary milk pails with part ly closed tops and sanitary straining gerous and contagious diseases should devices will keep out many of the be excluded from the herd. Cows that micro-organisms that otherwise might



The Motor Truck Has Shown Itself a Valuable Part of the Equipment of Every Dairy Farm. It Saves Much Time, Labor and Money.

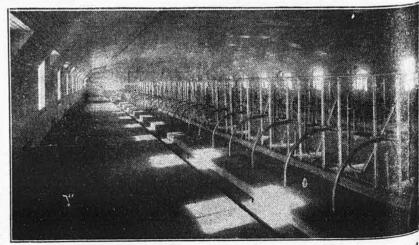
have tuberculosis will transmit this disease thru their milk to human beings and all animals that consume such milk. For this reason it is not safe to buy any dairy cow until she has been thoroly tested and shown to be free from tuberculosis. Veterinarians of the United States Bureau of Animal Industry will be found in every state who will give advice and assistance to those desiring to have the tuberculia test made.

The construction of sanitary dairy barns has been discussed many times already in the columns of this paper. No barn will prove satisfactory that is not properly lighted and thoroly ven-tilated. The barn floors, stalls, and gutters, and troughs should be built of concrete. The floors should be cleaned thoroly every day and the walls and ceilings should be kept free from dust and cobwebs.

The feed lot should be well drained and kept as clean as possible. Gravel, duces from such sources. The daif sand and cinders mixed in the right barn and the milk house should be proportions and scattered over the lot carefully screened to keep out flies and will help to overcome the mud nuisance. other insects that to keep out flies and will help to overcome the mud nuisance other insects that carry filth and germa in wet weather. Cows when they have to wade knee deep in mud and filth cannot keep their udders clean and fields containing wild onions s milk produced under such conditions show a characteristic garlie flavor will be dirty, filthy and unfit for human consumption.

drop into the pail during the milking. All the milking utensils should be kept sterile in every way possible. The should be rinsed thoroly with war water and then should be scrubbe thoroly with moderately hot water co taining a small amount of sai solution This should be done with a washing brush having good stiff bristles. The the vessels should be sterilized with but steam or rinsed out with scalding has water, carefully drained and sound in a place free from dust. Great cat also must be exercised in straining it milk. A good strainer consists of tw thicknesses of cheese cloth with a laye of absorbent cotton between the in

pieces of cheese cloth. Cows must be kept supplied clean, pure water and with clean whole some feeds. The dirty water of met ponds and stagnant streams is dar gerous for the cow as well as for the persons who drink the milk she po Milk readily absorbs disagreeable odors and taints. Cows grazing @ show a characteristic garlic flavor the milk. Ragweeds impart a very pleasant bitter taste to the milk. No



This is an Inside View of a Large Dairy Barn in Which Concrete Floors and Sanitary Modern Equipment Have Been Installed to Good Advantage,

wheat pastures also give a peculiar color and flavor to the milk when the cow is first permitted to graze on them. The milk house and the refrigerator in which the milk is kept should be kept free from odors that might be absorbed by the milk and give it a disagreeable flavor. The milk should be cooled as mitted. In the basis of the basis of the control a is a possible after it is drawn. Do ay in doing this will diminish the keeping quality of the milk to a large extent. There are a number of types of coolers and cooling devices on the market that have proved quite satis-factory. Among these might be menned the corrugated cooler, the tubucooler, and the cone-shaped cooler. care should be taken to keep the milk a clean and sanitary condition while

it is being taken to market. In warm weather the motor truck will shorten the time required to transport the milk from the dairy farm to the city and will diamish the chances of its getting too warm while on the trip. By having the milk properly handled and promptly delivered there is no reason why it should not reach the prospective cus-terior in the city in good condition

By observing these simple precau-ious it will be an easy matter to proabsolute safety by any one. Better te laws rigidly enforced with fre-tat inspections will help to force ymen to produce nothing but sanimilk. A thoro system of grading scoring and publishing the ratings various dairy plants will also have a salutary effect in compelling men to produce clean and sanimilk. Sanitary barns and sanitary pment will prove a good investment iny dairy farm. CL

Stables for Dairy Cows C. O. LEVINE

The dairy cow, unlike the fattening steer that is protected by layers of fat, needs to be comfortably housed, if she s to produce her maximum.

The loss of energy in the form of heat from exposure to cold, especially damp snow in winter and cold rains in the spring or fall, is often greater than the amount of energy required to maintain the animal under normal

placed high, fresh air is provided the cows during the day when they are standing, rather than at night when

fresh air is likely to be needed most. Foul air is heavier than fresh air and settles to the floor at night when the atmosphere of the barn is not disturbed by opening and closing of doors. If the foul air ventilators are placed 2 or 3 feet above the bottom of the wall, as they are in most barns, they are above the foulest layers of air, and the cows are compelled to breathe impure air below the foul air flues thruout the night while they are lying down.

The King system of ventilation which has met with such popular favor, is good, if the foul air ventilators are placed down within 12 inches of the floor.

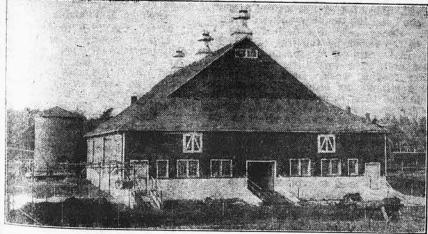
A yard should be provided for the milk cows in which they can be turned out for exercise at least once a day, in all but the most severe winter weather. When the cows get most of their rough feed from a common feed rack in the yard, the rack should be placed in a sheltered place, and be pro-vided with a roof to shelter them from cold rains while eating at the rack.

Foreign Dairy Products

Dairy market reports in the hands of the Bureau of Markets of the De-partment of Agriculture are disquiet-ing to dairy production interests. Roy C. Potts, specialist in marketing dairy products, aunounces imports of Dan-nish and Holland made butter, amount-ing to 5 or 6 million pounds, affecting domestic markets as far inland as Chiand the second s nor foreign outlet equal to production. This showing at this period of the season is viewed with alarm.

Shorthorn Meeting and Sale

The Shorthorn breeders of Kansas will hold a meeting in connection with the association sale to be held at the when she is compelld to drink it ice in the list of speakers are President. When the is compell to drink it ice in the list of speakers are President. When she is compell to drink it ice in the list of speakers are President. How the fatter of the state of the speakers are president.



The Dairy Barn Should Not be Too Warm But It Should be Comfortable.

temperature. emperature. All body heat or Harding and W. A. Cochel special rep-must come from the feed the resentative of the American Shorthorn ais, and a certain amount of savheat or energy means just that less expense for feed,

mountries with long, cold winters, mportance of housing for dairy is generally well understood and leed. It is in regions where mild me occur. since occur. This is because no will be held that evening. that occur at intervals.

the dairy barn should not be arm or stuffy, it should be kept contortable for the cows. If the tem-perature in the barn is kept above freezing, it will be warm enough. A table with double walls and windows along the south side, should provide afficient protection from the cold.

Many barns are poorly ventilated. is better to have a cold barn, with fresh air, than one that is foul and suffy from poor ventilation. The difwith most ventilating systems October 7 to 16, inclusive, at Chicago. that the vents for the removal of in1 air from the building are placed on high in the wall. When they are aging extent this year in Kansas.

Breeders association. The day's ac-tivities will begin at 8 A. M. with the judging of the sale cattle. The actual selling of the cattle will begin at 2 P. M. and immediately following the main sale the heifers belonging to the Riley County Calf club will be sold. ers prevail that most losses from The business session of the association

The National Dairy Show

The National Dairy Show is the greatest single factor for bringing together and co-ordinating every branch of the dairy industry into a solid, progressive fighting force, and every man in the industry allying his strength with this great force just hastens the day when the strength of the whole becomes irresistible for advancement and progress to the benefit of all.

Dairying is developing to an encour-



Feeds For Egg Production

Properly Balanced Rations Increase Poultry Profits BY F. E. FOX

THE ONE-GRAIN ration for poul-try feeding has seen its best days. It has been said that wheat is probably as nearly balanced for egg production as any one of our common grains and yet when a flock is fed on wheat alone, a hen only gets one-half enough protein to make an egg a day should be available to the birds at all enough protein to make an egg a day should be available to the birds at all and there are three times as much times. These mash feeds include bran, carbohydrates and fat as is needed for shorts, cornmeal, meat scraps, tankcarbohydrates and fat as is needed for shorts, cornmeal, meat scraps, tank-that same egg so to get enough protein age, ground oats and occasionally al-she has to save up her food for two days and at the same time has accum-ulated six times as much carbohydrates and fats as she needs. It is little won-ter, then, that hens fed one grain or even a mixture of grains without a mash supplement with a high protein feed, frequently get over-fat. The pres-carded six sime an upplication of the strain to feed so should be fed some whole or feed, frequently get over-fat. The pres-carded grains but under the strain to feed so should be fed some whole or tracked grains but under the strain to feed so should be fed some whole or tracked grains but under the strain the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed so should be fed some whole or the strain to feed some strain to strain the strain to supplement the strain to feed some should be fed some strain to feed some should be fed some strain to supplement strain the strain to supplement the strain to supplement the strain to supplement the strain to supplement strain to supplement strain to supplement the strain to supplement to ent day poultryman supplies a variety of grains for the scratch feed and sup-plements this with a dry mash.

Good Grain Combinations

Those grain feeds which have been found satisfactory for scratch grain longer than a mash and they are not are corn, wheat, oats, kafir and barley. so likely to get hungry before morn-Corn has been considered too fattening ing. A wet mash in the morning is or heating by many to be a good sum-quite objectionable as the birds come mer feed but actual feed tests do not bear this out. Careful temperature readings of fowls thru the hot summer months have been kept and corn has been found to be as desirable as other grains. However, fowls usually decrease in egg production at this season of the year and do not require much for maintaining the body temperature for maintaining the body temperature so do not need so much feed. They also get considerable feed upon the range. For these reasons a small amount of corn or any other grains should be given and the quantity of bulky feeds such as bran, ground oats and green feed increased.

feed increased. Wheat is a starchy food and the fowls like it. They will eat it quite readily. It is low in ash and fibre and when the price is reasonable it is one of the best poultry feeds that we have. Shrunken grains of wheat contain a high percentage of protein and are even more valuable than the plump starchy grains for poultry feeding.

starchy grains for poultry feeding. Oats are high in hull which is largely crude fibre and indigestible. They are not very palatable unless hulled or chopped. Sprouted oats or soaked oats are good as the soaking softens the hull. Heavy oats are desirable to add to the ration by the way of var-iety. Light oats for the reason of the evcess hull have very little value in excess hull, have very little value in poultry feeding work. Oats seem to have a stimulating effect. Horsemen like to feed them to horses to give life and energy. Pep probably would be the present day slang for the effect ob-tained. Hulled oats or rolled oats are very good for growing little chicks.

Kafir and Corn

Kafir has about the same analysis as corn and is used to replace corn in sections where corn will not grow well.

Rye is used but little for poultry poultry and not used to any great ex-feeding. It is not palatable and chick- tent, at least in the North. A small ens do not like it tho from the point percentage of cotton seed meal has

ens do not nke it tho from the point percentage of cotton seed meal may of its analysis it would seem that it been used by the government upon their ought to be a good feed. Cane seed is not eaten readily by has given fairly good results. Chickens nor does it usually give the best results. In a good many localities clude green feeds such as sprouted onts. best results. In a good many localities clude green feeds such as sprouted onts, it is fed because they have it on hand nice green alfalfa, wheat or rye past and other grains are high and hard to ture, mangels or cabbage. procure. From the point of egg pro- protective feeds and heal duction the grains, mentioned will give

Millet is sometimes used but because of the small size of the seed it has found more favor as a chick feed than for laying hens. Buckwheat is not relished by fowls and very little of it it will be necessary to supply lime in is used altho a good many commercial some form. Oyster shell is the com-scratch grains include it in their mix-ture. ture.

of heavy egg production she cannot get feed fast enough this way so some of it should be fed in the ground state

making it quickly digestible. It is desirable to give a grain feed at night as it stays with the fowls quite objectionable as the birds come off the roost hungry and gobble up their fill of the wet mash and sit around the rest of the morning. Thus they do not get the necessary exer-cise that they should. Furthermore, the stronger birds crowd away the weaker and get most of the feed. For these reasons day feeding of the mesh these reasons dry feeding of the mash is desirable. They can eat only a little at a time and then have to get a drink to wash it down so that at some time during the day all the flock gets a chance at the feed hopper. Of the mash feeds bran should be the basis and always included. It is bulky, acts as a laxative and holds the particles apart in the digestive tract, giving the digestive juices a chance to act. It is high in ash or mineral and one of the

high in ash or mineral and one of the best poultry feeds that we have. Shorts or middlings contain more of the starch of the wheat kernel and are high in feed value but are too heavy or pasty to be fed alone. They should be included in the dry mash along with bran. Commeal or the siftings from ground corn or corn chop will prove very nelatable. will prove very palatable.

Tankage is Valuable

Meat scraps and high grade tankage are high in protein as muscle or lean meat particles of food. This is necessary for heavy egg production. Milk would provide the same compound but contains so much water that it is doubtful whether fowls under heavy egg production could consume enough to supply their needs. Alfalfa meal supplies succulence, green feed and health builders known as vitamines. If fowls are out upon free range they would not need this except possibly during the most severe winter months when the birds are unable to get out and rustle any green feed.

and rustle any green feed. Sections where corn will not grow well. It has a hard outer coating which is objectionable. After the chickens be-come accustomed to kafir they will eat it quite readily and it gives quite good results. In feeding value it is about 10 per cent lower than corn. Barley is higher in protein than corn, wheat or oats and is lower in crude fibre or hull than oats. Chickens do not like it as a rule and will not eat jt readily. In the past it has had a high value for other purposes but very likely now, more of it will be used for poultry feeding work. Rye is used but little for poultry Rye is used but little for poultry poultry and not used to any great ex-

These are protective feeds and health builders. When they are lacking birds are more susceptible to disease. Milk, preferably sour, tho not a green feed is also a health builder or productive feed. Un less the birds range upon a limestone farm or have access to broken plaster,



Where Butter Profits are Made or Lost

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prices and list of varieties. Johnson Bros., Wamego, Kan.
 POTATO PLANTS-GROWN FROM FIELD selected potatoes. 1,000, express collect, 33. Tift Plant Company, Albany, Ga.
 PEPPER AND EGG PLANTS, \$2 100; 25 cents dozen. Early tomatees, \$1 100. A.
 M. Samüelson, Route 3. North Topeka.
 STRAWBERRY PLANTS, PROGRESSIVE, everbearing, \$2 per 100, \$8 500 plants, postpaid. Fairbury Nurseries, Fairbury, Neb.
 PLANTS-TOMATO, EARLIANA, 50-DAY; sweet potato, Red Bermuda, Yellow Jer-sey, 50 cents per 100, postpaid. Ernest Dar-land, Codell, Kan.
 EXTRA FANCY YELLOW JERSEY SWEET potato plants. 1,000, \$3.25; 5,000, \$3 per thousand, delivered. Prompt shipment. Peter P. Simon, Oakland, Kan.
 SWEET POTATO SLIPS-NANCY HALL and Porto Rico. Disease free. Treated for black rot. \$3.60 per thousand, cash with order. Indian Trail Potato Company, Ida-bel, Okla.
 FROST PROOF CABBAGE PLANTS. 1,000

FROST PROOF CABBAGE PLANTS. 1,009, postpaid, \$3; 1,000, express collect, \$2.50, Tomato plants, 500, postpaid, \$1.50; 1,060, express collect, \$1.75. Tift Plant Company, Albany, Ga.

express collect, \$1.75. Tift Plant Company, Albany, Ga.
 SWEET POTATO PLANTS, NANCY HALL and Porto Rico, the two leading varieties, \$3.50, 1,000; \$2 for 500. We pay postage.
 Satisfaction guaranteed. Holdenville Nur-series, Holdenville, Okla.
 POTATO PLANTS, PORTO RICO, NANCY Hall, Bunch Yam, Southern Queen, Tri-umph, Dooley Yam, Yellow Yam, Yellow Jersey, Cuba Yam. 1000 postpaid for \$3.50; 500, \$2; 100, 50c. Ozark Nursery, Tahle-quah, Okla.
 PLANTS-ALL KINDS-CABBAGE AND tomatoes 100, \$1; 200 or more 75 cents hundred. Sweet potato, Red Bermuda, Nancy Hall, Yellow Jersey, Yollow Nansum, Pride of Kansas, 100, 75 cents; 200 or more 50 cents hundred. Postpaid. John Patzel, 501 Paramore, North Topeka, Kan.

STRAY LIST

TAKEN UP BY E. E. MOORE, 51 S. VAL-ley, Kansas City, Wyandotte County, Kan, on the 19th day of April, 1920, one blue male colt, one year old, value, \$25, William Beggs, County Clerk.

TAKEN UP BY FRED STOCKING WHO resides in Jefferson township, Chautau-qua county, Kansas, on the 26th of March, 1920, one red yearling steer, no marks or legible brands. J. R. Marsh, Justice of the Peace.

or legible brands. J. R. Marsh. Justice of the Peace. TAKEN UP BY LESTER ADAMS WHOSE residence is Gove county. Section 26, town-ship 13, route 28, postoffice, Gove, Kans., R. F. D., Route A, on the 19th day of March, 1920, one black horse, white hind foot, weight about 750 pounds, value, \$20. E. E. Baker, County Clerk. TAKEN UP BY J. E. FRIESEN, 11 MILES northwest of Cimarron, Gray county, Kan., March 10th, 1920, four head of borses de-scribed as follows. One black gelding, com-ing three years old, small white star in forehead and white spot on right hind foot. Valued at \$75. One black mare, coming three years old, left hind foot white, and small white spot on right hind foot. Valued at \$75. One bay gelding coming two years old, valued at \$50. One bay mare coming one year old, white spot in forehead, valued at \$50. No marks or brands except as given above. H. N. Hildebrand, County Clerk.

PET STOCK.

\$150 A MONTH EASILY MADE FROM one pair of silver foxes. Some are making double that. Think of it, but don't think too long. Don't worry about the money. You can "start small and grow big." Let me show you how. The Uncompanyre Fur Company, Department MB, Ridgway, Colo-rado.

rado. RAISE RABBITS FOR US, WE SHOW YOU where to market all you raise at \$4 to \$25 each. Remit \$5 for large, illustrated, type-written print on one side of paper, "Course in Rabbitcraft," which remittance also ap-plies on purchase of pair Belgian Hares, in-cluding contract. Co-Operative Supply Com-pany, Department 80, St. Francis, Wis.

POULTRY So many elements enter into the shipping of eggs by our subscribers and the hatching of same by our subscribers that the publish-ers of this paper cannot guarantee that eggs shipped shall reach the buyer unbroken, nor can they guarantee the hatching of eggs. Neither can we guarantee that fowls or baby chicks will reach destination alive, nor that they will be satisfactory because opinion varies as to value of poultry that is sold for more than market price. We shall continue to exercise the greatest care in allowing poultry and egg advertisers to use this paper, but our responsibility must end with that.

ANCONAS.

40

ANCONA EGGS, \$7 PER 100, PREPAID, Earl Grimes, Minneapolis, Kan. SINGLE COMB ANCONA EGGS, 15, \$1.25; 100, \$6. Dan Gansel, Belolt, Kan. PURE BRED ANCONA EGGS, \$5.50 PER 100. George S. Hamit, Speed, Kan. -

BUTTERCUPS BUTTERCUP EGGS, 15, \$2; 100, \$8. MRS Jas. Shell, Pittsburg, Kan.

BRAHMAS FELCH LIGHT BRAHMAS. EGGS, \$1.50 15. Harry Thomas, Scranton, Kan. THOROUGHBRED MAMMOTH LIGHT Brahmas, 15 eggs, \$2. Cora Lilly, West-phalia, Kan. Phana, Kan.
 HEAVY LAYING AND WEIGHING LIGHT Brahmas, 15 eggs, \$1.75; 50, \$4; 100, \$7.75. Postpaid. Mrs. Dick Walters, Abl-lene, Kan., Route 7.

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SINGLE COMB WHITE LEGHORN BABY chicks, J. D. Lundeen, McPherson, Kan

Chicks, J. D. Lundeen, McPherson, Kan.
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CORNISH. GORNISH EGGS. \$2, 15, CHAS.

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FAWN ducks. Route 3,	AND Eggs. St. Jo	13, \$1	.50.	NDI. Mrs.	AN I Edith	Wrig	ER

FAWN AND WHITE INDIAN RUNNER ducks, prize winners. Eggs. \$2 15. Emma Mueller. Roule 2. Humboldt, Kan. ENGLISH PENCILED RUNNER DUCK eggs. Heavy laying strain. 13. \$1.25; 100, \$7.50. Mrs. Cameron Smith, Durham, Kan.

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 Eggs, \$2 per 15; \$5 per 50; \$9 per 100; se-fected pen, \$3 per 15. J. S. Cantwell, Ster-ling, Kansas.

Eggs, 5, 5, 5, 7, 7, 8, 2, per 15.' J. S. Cantwell, Sterling, Kansas.
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White and Black Langshans, 15, \$2.50, Range White, 15, \$1,75; per hundred, \$8, \$5, C. Anconas, Sicilian Buttercups, 16, \$2, \$6% fertility guaranteed, Parcel post. Mrs. Elmer Caywood, Raymond, Kan.

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PURE BRED TOULOUSE GEESE, FIVE eggs, prepaid \$2.50. Arthur Blanchat, Runnymede, Kan,

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WHITE AFRICAN GUINEAS, \$2.50 PER 15, prepaid. Chenoweth's White Feather Farm, Gove. Kan. WHITE AFRICAN GUINEAS, \$3 TRIO. Eggs, \$1 per 15. Mrs. George E. Martin, Route'1, Attica, Kan.

1

HOUDAN EGGS, 15, \$2; 50, \$5. HENRY Haberman, Great Bend, Kan. HAMBURGS

HOUDANS.

EXCELLENT LAYERS, NONE BETTER. Pure Rose Comb Silver Spangled Hamburg eggs, \$2.25 per 16; \$11 per 100. Leland Mc-Kittrick, Wilson, Kan.

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 \$7, 100. Young strain. Mrs Lewis Olson,
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Dorr, Osage City, Kan. FERRIS BEST STRAIN LEGHORN CHICKS \$18, 100, Eggs \$0, 100, \$2, 15. Claude Hamilton, Garnett, Kans. SINGLE COMB'BUFF LEGHORN EGGS, 100, \$6. Baby chicks, \$20 100. Norma Graham. Route 1. Florence, Kan. PURE BRED S. C. BUFF LEGHORN EGGS, \$8, 105 prepaid, satisfactory hatches, Mrs. Warren Bearly, Protection, Kans. ROSE COMB BROWN LEGHORNS. STATE winners. Until further notice, eggs, 5c each. Ida Standiferd, Reading, Kan. PURE BRED S. C. B. LEGHORN EGGS, \$1.25 for 15; \$6 for 100. Mrs. R. J. Logan, Carlton, Kan. SINGLE COMB WHITE LEGHORNS.

\$1.25 for 15; \$6 for 100. Mrs. R. J. Lögan, Carlton, Kan.
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SINGLE COMB BROWN LEGHORN EGGS, 100, \$6.50 prepald. Satisfaction guaran-teed. Mrs. Henry Wohler, Green, Kan.
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RYAN'S QUALITY SINGLE COMB DARK Brown Leghorns, eggs prepaid, 105, \$7: 150, \$10; 300, \$18,50, Mrs. D. J. Ryan, Contralia Kan Centralia, Kan. BARRON'S ENGLISH WHITE LEGHORNS. Winter layers, not boarders. Baby chicks, eggs. Catalog free. Royal Oaks Poultry Farm. Cabool. Mo. EGGS FROM YOUNG-HILLVIEW STRAIN. Single comb White Leghorns, Quality guar-anteed. 7100, \$7, prepaid. Dave Baker, Con-way Springs, Kans. anteed

S. C. W. LEGHORNS, TRAPNESTED, HIGH egg producing exhibition quality, second to none. Eggs \$5 per 15. J. R. Ramsey, Route 4, Topeka, Kan. FOR SALE, WORLD'S BEST SINGLE Comb White Leghorn chicks, 20 cents each. 506 for \$98. Ferris, Young and Smith strains. Hens pay each \$8 per year. Clara Colwell, Smith Center, Kan.

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son's, Fulton, Kans. **YESTERLAID STRAIN SINGLE COMB** White Leghorn, mated with Ferris 260-egg trap nested stock. \$8 per 100. Extra with each 100 order, securely packed. Pre-paid. Mrs. L. B. Takemire, Silver Lake, Kon egg with paid, Kan.

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Eggs for hatching, \$8 per 100 and up. Get mating list. E. P. Miller, Junction City, Kan. Kar

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PLYMOUTH ROCKS BUFF ROCK EGGS. WILLIAM A. HESS, Humboldt, Kan. WHITE ROCK EGGS, \$6 PER 100. NORA Lamaster, Hallowell, Kans. FISHEL STRAIN WHITE ROCK EGGS, H. C. Hays, Manhattan, Kan. BARRED ROCK EGGS, \$2 PER SETTING, O. G. Hassler, Enterprise, Kan. BUFF ROCKS, PRIZE STRAIN, 100, \$7. Mrs, Robert Hall, Neodesha, Kan. BARRED AND WHITE ROCK EGGS, Henry Hicks, Cambridge, Kansas. CHOICE WHITE ROCK EGGS, \$7, 100; Mrs. Elsie Holderness, Dillwyn, Kans. WHITE PLYMOUTH ROCKS. EGGS \$10 hundred, Peter Desmarteau, Damar, Kan-sas. BARRED ROCK EGGS, \$1.50 PER 15, PRE-paid. Mrs. Aug. Christianson, Brewster,

Kan. Kan. WHITE ROCK EGGS, 6 CENTS, CHICKS, 18 cents, Mrs. John Hoornbeck, Winfield, Fredouia,

PURE BRED WHITE ROCK EGGS, \$6 PER 100, \$2 per 15. Mrs. Elwin Dales, Eureka, Kans Rans. BUFF ROCK EGGS. PRIZE WINNING stock. 100, \$7; 50, \$4. Maggie E. Stevens, Humboldt, Kan.

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BARRED ROCKS, LARGE BRED-TO-LAY, yellow legs, 100 eggs, \$8. Mrs, J. B. Jones, Abilene, Kansas,

FISHEL WHITE ROCK EGGS, HEAVY layers, \$8, 100; \$2, 15. Mrs. Earl J. Rose, 'Barnes, Kan.

PLYMOUTH BOCKS BUFF ROCKS FOR 18 YEARS. EGGS \$1.9 setting; three settings, \$4. Mrs. Homer Davis, Walton, Kan. WHITE ROCK EGGS FROM PRIZE WIN. ning stock, \$1.50, 15; \$7, 100. Mrs. Cat-sidy, Partridge, Kanšas. PURE BARRED ROCK EGGS, HIGHLY fertile, good size and barring, 100, \$5.5; 50, \$3.50. Mrs. S. Van Scoyce, Oak Hill, Kan FORS FROM STANDARD DARK, BARPES

50, \$2.60. Mrs. S. Van Scoyoe, Oak Hill, Kan EGGS FROM STANDARD DARK, BARRED Rocks, egg type, fine birds, \$3 per 14
 Omer Perreault, Clyde, Kan.
 PURE BUFF ROCK EGGS, WINNERS nine shows, 15, \$2; 50, \$4.50; 100, \$4
 Mrs. C. N. Mason, Uniontown, Kan.
 "PREPAID" BARRED ROCKS, "RING. lets" eggs, 15, \$1.50; 50, \$4; 100, \$7. Quick service. B. M. Wayde, Burlington, Kan.
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service. E. M. Wayde, Burlington, Kan, BARRED ROCK EGGS, BEST BLOOD lines, \$3 to \$5 per 15. ½ price after May 1st. Mrs. Sylvan Miller, Humboldt, Kans, FURE BARRED ROCKS—20 YEARS EX. clusive breeding. Eggs, 15, \$1.56; 100, H Glendale Farm, C. E. Romary, Proprietor, Olivet, Kan.

oliver, Kan. BETTER BARRED ROCKS, THE SAME old price. Eggs, 100, \$6. Pens of pur Bradley stock at \$3 to \$5 per 15. Lee Under-hill, Wells, Kan. WHITE ROCKS, RESULT OF 26 YEARS exclusive breeding. A few hens and egg at bargain prices. Thomas Owen, Route 1, Topeka, Kan.

at bargain prices. Thomas Ownens and egg at bargain prices. Thomas Ownen, Route 1, Topeka, Kan.
SEASON END PRICES—QUALITY ROCKS dark, narrow barred, show-winning-strain, Eggs, 15, \$1.75; 100, \$8. Marta M. Sheare, Frankfort, Kan.
PURE BARRED ROCK EGGS, LARGE vigorous, bred to lay strain, \$1.25 per set-ting; \$6.50 per hundred. Mrs. Wm. Garrelt, McPherson, Kan.
W H I T E ROCK EGGS, GUARANTEED pure; \$2 per 15; \$5, 50; \$8, 100. Few cock-erels left, \$4 each; three for \$10. F. D Webb, Sterling, Kan.
PARK'S 200 EGG STRAIN BARRED ROCKS Pedigreed eggs, 15, \$2.50; 30, \$4.50; 10, \$10; prepaid. No better bred-to-lay. E B. Snell, Colby, Kans.
BARRED ROCKS, 80 PREMIUMS KANSIS City, Denver, Topeka, Salina, Manhatta, Clay Center. Eggs, 15, \$7.50; 30, \$14. Mattle A. Gillespie, Clay Center, Kan.
FRIZE WINNIG "RINGLET" BARRED rocks, Eggs, mated pens, 15, \$5. Utility 15, \$1.50; 50, \$4; 100, \$7. Day old chicks, Beach. Mrs. C. N. Balley, Lyndon, Kaa THOMPSON'S RINGLET BARRED ROCKS Heavy winter layers. "Pen quality." eets THOMPSON'S RINGLET BARRED ROCKS Heavy winter layers. "Pen quality," esga 15, \$2; 30, \$3.75; 50, \$5.50; 100, \$10. Saf arrival guaranteed. Jno. T. Johnson, Mousd

ar, val guaranteed. Juo. T. Johnson, Nound City, Kan.
 IF YOU WANT BARRED ROCK EGG3 from stock/that has won in government laying contests write Farnsworth, 224 Tyle, Topeka, Kan. Eggs half price after April %
 THOMPSON'S I M P E R I A L RINGLETS. trapnested, bredito-lay. Each pen heads by prize winner cockerel mating egg reced 240. 15, \$2; 50, \$6; 100, \$10; prepaid. E. B Dorman, Paola, Kan.
 RINGLET BARRED ROCKS, HIGH GRADE Thompson hens headed by pure E. R Thompson hens cockers row 100; \$4 fer 50. Baby chicks, 20 cents each. Emma Mueller, Route 2, Box 15, Humboldt, Kan.

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STRICTLY PURE ROSE COMB RHODS Island Whites. Excellent layers. Egga 100, \$9; 50, \$5; 15, \$2. E. Bidleman. Kins-ley, Kansas.

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THOROUGHBRED R. C. RED EGGS, \$1.50 per 15; \$7 100. Downie McGuire, Para-dise, Kan. dise, Kan, PURE BRED ROSE COMB REDS, LAYING strain. Eggs, \$10 per 100. Pine Creat Farm, Abilene, Kan. SINGLE COMB REDS. 15 EGGS \$2: \$0. 106. Safe delivery guaranteed. M. E. Hawking. Mound City, Kan. Mound City, Kan. LARGE, DARK RED SINGLE COMB EGG8 bred layeps, 15, \$1.50; 50, \$4. Mrs. Frank Smith. Lawrence, Kan. LUNCEFORD'S SINGLE COMB QUALTI Reds. Eggs, \$1.50, 15; \$7, 100. Sadu Lunceford, Mapleton, Kan. EVEN DARK ROSE COMB RHODE IS-land Reds. Eggs, 15, \$1.50; 100. \$ Chicks, 22c each; 100, \$20. Walter Balt Deerhead, Kan. LARGE, DARK, RED, HEAVY BONED 'good georing Rose Comb Reds. Gunran-teed good laying strain. Highland Farm Hedrick, Iowa.

Ricksecker-POORMAN REDS, EXTRA-laying strains, both combs. Pens, §2 15.
range, §6 95. Chicks, 20c. Nell Kimbh Carbondale, Kan.
MEIER'S SINGLE COMB REDS. FIRST prize winners at World's Fair, Chicag and Kansas City. 50 eggs, \$5; 100, \$10. B
BARGAIN-IN THOSE RED SINGLE COMB Rhode Island Reds. To give room, tared pens with range, \$7, 100. Order mating lis J. A. Bockenstette, Fairview, Kan.
SELECTED RANGE DARK RED ROSE 5. A. BOCKENSTELLE, Fairview, Kan. SELECTED RANGE DARK RED NOS comb eggs, extra good stock, \$10 per 16; \$2 per 15. Satisfaction guaranteed Florence Broadbent, Corning, Kan. CAREFULLY PACKED HATCHINO EGG from prize winning stock S. C. Red White Leghorns, \$3 per 15. Two setting or more prepaid. R. P. Krum, Staffork Kan.

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WYANDOTTES

BUFF WYANDOTTE EGGS. WYCON Bros., Luray, Kansas. "BEAUTILITY" SILVER WYANDOTTE Eggs, 15, \$3; 100, \$10. Mrs. Edwin Sheft Pleyna, Kan. WYCOF

Plevna, Kan. QUALITY ROSE COMB WHITE WYM dottes. Martin-Keeler strains direct. Not winter layers. 15 eggs, \$2; 30, \$3.50; 50, \$5 100, \$9. Satisfaction, safe delivery guar teed. Garland Johnson, Mound City, Kab



The Livestock Markets

BY SAMUEL SOSLAND

ANSAS stockmen met at Kansas City last week to discuss the key to current and prospective key neices of livestock. The meeting, which included the board of governors of the Kansas Livestock association and repintatives of the Kansas City and Wichita livestock exchanges, ignored the transportation situation, discussing only the extreme difficulty being exenced in obtaining loans on cattle. cattlemen at this meeting, includ-Pres. James R. Plumb of the Kanssociation, Pet Nation, vice-presiof the First National bank of chinson, Ed Root of Brookville, M. Sherman of Crawford, J. H. Mer-Topeka and President E. W. of Houx of the Kansas City Livestock exchange made it clear in their dis-He cussions and in the resolutions they adepted that the lack of an adequate y of loans is holding the livestock SUD industry in check.

WYANDOTTES.

WH

E WYANDOTTE EGGS, \$1.75, 15; \$9, Good fertility. Chilcotts Poultry Mankato, Kan... COMB WHITE WYANDOTTE EGGS good laying strain, \$1.50 15; \$8 100. Meier, Haven, Kan. Meier, Haven, Kan. FROM MY BRED-TO-LAY WHITE indottes \$4.48 prepaid; \$7 per 100. S. Concordia, Kan. G STRAIN WHITE WYANDOTTE terels, \$3.50, \$5 and \$7. Eggs, \$2 15; Ira_Ives, Liberal, Kan. SELECTED WHITE WYANDOTTE for \$5; fifty, \$2.50. Order from ad. Waterman, Peabody, Kan. E WYANDOTTES. FAMOUS FOR

Waterman. Peabody, Kan.
WYANDOTTES, FAMOUS FOR and show birds. For egg bargains, I. A. Moore, Hiawatba, Kan.
WYANDQTTE EGGS FOR HATCH-From record layers. Catalog free.
J. Higgins, Effingham, Kan.
BRED SILVER LACED WYAN-eggs, 15, \$1.50; 100, \$8.50. Chicks,
Lawrence Blythe, White City, Kan.
BRED ROSE COMB BUFF WYAN-eggs, 15, \$1.50; 100, \$8. Buff Orping-ck eggs, 12, \$2. Viola Crall, Madison,

STRAIN WHITE WYANDOTTE nd cockerels. Some state winners, business, everything for sale. Mrs. er. Minneapolis, Kan.

E WYANDOTTES, BARRON'S ENG-and Stevens' American, world's great-ving strain. 100 eggs, \$10 prepaid, Guaranteed 60 per cent hatch, Dressler, Lebo, Kansas,

TURKEYS.

OTH BRONZE TURKEY EOGS. 35c L. E. Johnson, Liberal, Kans. BRED WHITE HOLLAND EGGS, \$5 Mrs. M. Miller, Sharon, Kan. WHITE HOLLAND TURKEY EGGS, each. Mrs. Will Hopwood, Abilene,

BOURBON RED TURKEY EGGS, \$5 m. Mrs. Grant Griffin, Ellsworth,

HOLLAND TURKEY EGGS, \$4.50 paid. Chenoweth's White Feather

Chenowern's white Feature for the formation of the search of the search. Mrs. Middleton, 50 cents each. Mrs. Middleton, Chetopa, Kan.
Chetopa, Kan.
IRED BOURBON EGGS, \$5 PER 11.
IRED BOURBON EGGS, \$5 PER 11.
IRED BOURBON EGGS, \$5 PER 11.
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IRED MOMENTE BRONZE
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IRED MAMMOTH BRONZE TURES for sale, 50 cents each. large use the search in the Kan Mrs. Will Denny, Protection, Kan.

SEVERAL VARIETIES.

^{MBIAN} WYANDOTTE EGGS. FANCY ^{MB.} J. J. Pauls, Hillyboro, Kan, ^{MCKERELS, 49 VARIETIES. FREE Aye Bros., Blair, Neb., Box 5. ^{ALARGE} WHITE PEKIN DUCKS, ¹² eggs. Large boned Barred Rocks, ⁶⁰ eggs, until July. E. Bauer, Beattle,}

C. BLUE ANDALUSIANS, BUFF ons. Buff ducks, Rhode Island 5: \$8 100, Bourbon turkeys, \$4 12, John Huber, LaCrosse, Kan.

POULTRY WANTED.

WILL BE LOWER SOON. SHIP hately. Non-fertile eggs wanted. ad cases loaned free. The Copes,

M POULTRY PRODUCTS COM-210 North Kansas Ave., Topeka, 188 poultry and eggs on a graded Ve furnish coops and cases for ship-ultry and eggs to us. Write for Agency for Buckeye incubators and

POULTRY SUPPLIES.

T MILK AND BUTTER PRODUC-the world. La-Mo-Pep. Write for <u>S. Box 122</u>, Kansas City, Mo. ItANTEED DIARRHOEA CURE milty and chicks from diarrhoea, etc. Order today. \$1.04 per can. Stattler, Lanark, II.

"I would not be surprised to see idle pastures in Kansas this summer on ac-count of the failure of the owners of the grass to obtain loans to assist in the purchase of cattle," Pet Nation of Hutchinson declared, "It is not un-usual to find owners of pastures in the state who have no cattle on them because of a lack of loans. Some measures ought to be taken to assist the producers of this class. Kansas beef production may be cut short if condi-tions are not improved."

President Houx of the Kansas City Livestock exchange declared that cattle loan.companies and banks engaged in the livestock business are carrying fewer loans on cattle than a year ago, but are making new loans in very few instances. He told of one stockman who gave up his first payment on a bunch of 300 cattle intended for grazing because of failure to raise a loan to make full payment.

After discussions along this line, the directors of /the Kansas Livestock association adopted a resolution urging a cessation of lending on non-essen-tials and demanding that the Federal Reserve Board at Washington, which controls the Federal Reserve Banking System, arrange "a feasible plan by which the livestock industry may be cared for in order that adequate meat production be made possible for the coming year by extending sufficient credit at reasonable rates of interest to that industry."

Cattle Loans Restricted

Among other declarations in the resolution, the following was of chief interest: "At the present time our livestock producers are unable to get loans necessary for the carrying of their cattle on grass and filling pastures where unable to rent. Heretofore these borrowers have readily obtained loans without previous arrangements with their bankers, and thinking the same condition would prevail this year, find upon asking for loans that they are unable to get same. And it is fully established that livestock loans are approximately 331/3 per cent less than a year ago, which proves that the livestock industry is not overloaded with loans or at all inflated,"

The foregoing statements are deserving of commendation. They not only throw light on a vital phase of the trade in cattle-the supply of credit, but bring out an encouraging fact by pointing out that fewer loans are outstanding on livestock than a year ago. That many deals in cattle have already been held up by the lack of credit is generally reported in states other than Kansas. The demand on the Kansas City market for stockers and feeders has been affected to a degree. Naturally, as trading checked, upward movements in prices are stopped. There is a strong demand for cartle for pasturage purposes, but it is being held back. It is a curious fact, however, that thus far this season the demand for stockers has been so strong and so wide that prices on this class of cattle have held wellfar better than the quotations on finished grades going to packers.

Trade in cattle last week felt the effect of the credit situation and the continuation of the strike of switch-men. Offerings of South Texas grass-fat steers, which promise to be liberal thruout the month of May, while sold in the quarantine division of the Kansas City yards, repressed bullishness on all cattle. The South Texas steers dress out well partly because they are shipped a long distance to the Kansas native cattle trade last week, while heavy steers were barely steady. Top on yearlings was \$14.50. There was also a little improvement in the butcher

The market would have been better if hog market is out of line with corn, the credit situation had not entered being on an unprofitable basis. into it, but the prices paid were high The improved railroad co enough from the viewpoint of the buyers. The break in calves was attributed to the inauguration of the annual run of dairy calves at Chicago.

Hogs Advance 50 Cents

Slight improvement in railroad ship-ping conditions to the East helped the hog market, bringing competition from \$1, while fat sheep declined \$1. Even small packers. As a result prices ad- at the declines the market does not and market, bringing competition from \$1, while fat sheep declined \$1. Even small packers. As a result prices ad-at the declines the market does not vanced about 50 cents, with a top of \$14.65 and bulk of sales at \$13.75 to on wool lambs, the close was at \$19.20 \$14.50 at the close of the past week. for the best. Good wool ewes closed Packers reported the sale of 45 million dollars of pork products to Germany thru credit arrangements, but it was stated that the transactions ware ware and mule trade was again disstated that the transactions were on rupted by the railroad situation, and lard and meats already held in store prices were quoted only nominally in Europe. Stock hogs sold at \$14 to steady, with the tendency somewhat \$14.50, with some sales up to \$15. The easier.

The improved railroad conditions brought larger receipts of sheep, as well as of cattle and hogs. The sheep market was affected by Texas offer-ings of grass-fat stock and by a reduced demand for mutton. As pre-dicted lately, prices receded, closing with declines of \$1 to \$2. Wool lambs lost up to \$2 and clipped lambs around

Horse and mule trade was again dis-

The Grain Market Report (

BY SANDERS SOSLAND

ELAY in marketing wheat is not chases would be on a larger scale. D ELAY in marketing wheat is not chases would be on a larger scale. advisable. Farmers who have been holding wheat for higher period of active buying by bakers and period of active buying by bakers and jobbers before the close of the old stocks as soon as possible. For the crop year will soon be witnessed. In second time on the 1919-20 crop, the the past week wheat advanced 4 to 8 bread grain has again sold up to the cents a bushel on dark hard and hard \$3-a-bushel level, the figure I pre-dicted would be reached (before the close of the government basis close of the marketing season. This ranged up to 83 cents a bushel. prediction was made at the time prices had receded about 75 cents a bushel from the previous top to around \$2.35 in Kansas City. Of course, much of the wheat still held by Kansas farm-Of course, much of ers has been kept out of markets because of the inability of railroads to supply equipment for loading. No doubt, many farmers will be compelled to carry their stocks into the new crop year. But strong efforts should be made to market wheat as soon as possible.

Another Wheat Advance Coming

The trade as a whole is not particularly bearish on wheat, knowing that the railroad situation will not permit of a heavy movement before the close of the crop year. A further advance in prices to \$3.25 a bushel would not be surprising and some ob would not be surprising, and some ob-servers of the grain community are

Urge Marketing of Wheat

Prices for wheat have again advanced to the \$3-level in Kansas City, but in view of the approach of the new crop year and probable rush of new wheat within 60 days, further advances are not gen-erally expected. Farmers should market their stocks of wheat as rapidly as possible. The financial horizon tends to darken bullish enthusiasm in the wheat trade.

forecasting possibly a \$3.50 mark in Kansas City. But there is as great a probability that prices will suffer a severe setback. Very bullish state-ments regarding the wheat situation, in both the domestic and world markets, have recently been made by in-vestigators of the United States Department of Agriculture, who are appealing for an increased area in spring A bullish new crop market is wheat. probable, but a severe downturn in prices either before or during the heavy new crop movement is expected. Export buyers are providing the ing considerable oats, also. They have been the principal buyers the past 60 days, having continuencle. Shipped a long distance to the Kansas They have been the principal outers. City yards. For this reason, they are the past 60 days, having continuously Cottonseed cake and meal are in a attractive to the packers, who are get-ting them largely at \$9.75 to \$10.50. supplies. It is to the interest of the on the downgrade, offerings of 43 per Yearlings gained about 25 cents in the export buyer to hold values down, and cent protein cake and meal being avail-notive cettle trade last work while already much surprise is manifest in able in Texas and Oklahoma around already much surprise is manifest in trade circles that they have maintained a very broad demand for so long a period. But as soon as avail-able ocean tonnage is filled, the foralso a little improvement in the butcher long a period. But as soon as avail-cattle trade, with sales largely at \$\$ able ocean tonnage is filled, the for-to \$10 on cows. Veal calves slumped as much as \$2, receding to a top of terest in the market, or at least hold only \$12.50. There was again some ex-port competition for live cattle. Stock-ers rose as much as 75 cents, owing to light receipts and a strong demand, not seriously restricted in their opera-with prices quoted at \$7.50 to \$11.50. tions by the strike of switchmen, pur-

Corn is Erratic

Corn is following a very erratic course, the fluctuations indicating an unstable situation in the market. The strained credit situation is offsetting in a large measure the bullishness re-sulting from a very light movement to market and small visible stocks of the grain. There is little hope for any marked improvement in the movement of corn from the interior and, so far as the supply situation is concerned, the trade is not lacking in strength. But it is a question whether the fi-nancial horizon will wield sufficient pressure on markets to offset the ef-fect of light receipts. The market fluctuations for some time in the future will reflect a contest between factors surrounding the demand-supply situation and the financial situation. It is argued that corn already has advanced about 50 cents a bushel from the low point as a result of the small movement to market, which should be sufficient to discount such a condition in the trade. Gains in the speculative market the past week amounted to 4 to 6 cents a bushel, and carlots advanced 3 to 7 cents. Sales were made at a range of \$1.65 to \$1.76 a bushel.

Heavy Demand for Oats

The present level of prices for oats is the result of an actual shortage of the grain, and not merely a scarcity so far as available stocks are concerned, which to a great extent is the case in wheat and corn. I predicted \$1 oats many months ago, and this figure will probably be maintained the probably be maintained the remainder of the old crop year. In the past week sales of white oats were made up to $$1.07\frac{1}{2}$ a bushel, the general market advancing 3 to 5 cents a bushel. For the first time in the history of the grain industry, quotations in the speculative market reached the \$1 level, this figure having been paid for the May delivery following advances of 4 to 5 cents. The South still is ab-sorbing large quantities of oats, and other sections where planting operations are progressing on a large scale

on the downgrade, offerings of 43 per-cent protein cake and meal being avail-able in Texas and Oklahoma around \$59 a ton, or about \$65 in Kansas and surrounding feeding states. A de-cline to \$50 a ton at crushing points would not be a surprising develop-ment. Mills are holding fairly large quantities of cake and meal, consider-ably more than normal for this season ably more than normal for this season of the year, but they are not pressing stocks on the market, fearing a rapid downturn. Feeders are buying very (Continued on Page 44.)

KANSAS

WESTERN LANDS FOR SALE OR TRADE. J. E. Stohr, Ensign, Kansas.

FOR RENT OE SALE-1,000 acres farming and grazing land, 3 wells, six miles of Guymon, Okla. Write or see S. H. Miller, Guymon, Okka, or Chas. L. Foulds, Higgins-ville, Missouri.

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W. S. Chawson, 147 mass. Ser. Lands, 147
560 ACRES, 230 acres of which is good bottom land, 2 miles from Medicine Lodge, on Elm creek. 200 acres in cultivation; 80 acres in atlafa. Good improvements, plenty of pasture and plenty of good running water. Price \$50 per acre. Terms on 20,000.
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FOR SALE-N. E. Oklahoma near Kansas FOR SALE—N. E. Oklahoma near Kabasa line, 155 acre black land farm adjacent to town of about 600 inhabitants, 6 blocks from bank, 10 blocks from high school. Well built 5-room house, pantry and store room, barn, well, etc. 5-acre hog pasture, 10-acre stock pasture, 35-acre meadow of lespedeza and prairie supplies about 40 tons of hay a year; 110 acres in cultivation, very productive black gumbo land. Price \$66.50 an acre, one-helf cash balance time. e-half cash, balance time. H. W. C. Shelton, Poteau, Oklahoma. one

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May 8, 1920.

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large barn, good have mation write or see, M. J. Nulton, Collyer, Kansas,

49

KANSAS

160 A. IMP., \$65 a. Many alfalfa farms for sale. M. T. Spong, Fredonia, Kan. WE CAN in 30 days sell your land for cash. American Auction Sales Co., Topeka, Kan, 210 ACRES, 2 miles out, fine imp., possession. \$35,000. Bert W. Booth, Valley Falls, Kan. 240 A. nice level land, good buildings, \$65 acre. W. J. Poire, Westphalin, Kansas. BARGAIN in improved 80 to 160. Very liberal terms. Parsons & Stewart, Fredonia, Kan.

BARGAINS. Bargains in wheat farms and stock ranches. Write for list. W. B. McAdams, Browster, Kansas.

FOR SALE-Good farms from \$80 to \$125 per acre. Call on, or address; O. C. Paxson, Meriden, Kansas.

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

WE DON'T OWN THE WORLD, we sell it. Write for farm list and pictures. Kansas Land Company, Ottawa, Kansas. CHEAPEST LAND in Kansas. Churches of Klingberg & Skinner, Osage City, Kansas.

 A. IMP., pump irrigated farm, produced \$8,000 alfaita last year.
 \$250 per a.
 W. B. Luke, Owner, Scott City, Kansas. 150 ACRES, good improvements, well watered, 4% miles town Anderson Co., lays well, good terms, a bargain. Box 54, Colony, Kan, 160 ACEES, all tillable except 15 acres; half creek bottom alfalfa land; fair improve-ments. \$10,400. Box 38, Thayer, Kansas. GOOD IMP. FARMS and ranches in Lyon and Greenwood countles, have some trades. Write for prices. Theo. Voeste, Olpe, Kan. 160 ACRES, imp., 3½ mi. to Mahaska, 120 a, cult., bal. pasture and grass. Priced to suit you. Joe Safar, Mahaska, Kansas.

80 ACRES, improved farm, rich and level, fair buildings, only \$75 per a. \$3,800 cash, balance 4%. E. H. Bideau, Chanute, Kan, 100-ACRE OIL LEASE FOR SALE, near oll well test now drilling. Rossville, Kansas. J. W. Watkins, Quenemo, Kansas.

CLOVEB, timothy, bluegrass and alfalfa land, cheapest in state, exchanges made. Clark Realty Co., Garnett, Kansas.

CARY & HOARD, Real Estate Exchange and Loan Agent. Ranches a specialty, sold on commission. Phone 13, Anthony, Kansas. FOR SALE-All kinds of farms in N. E Kan. Send for printed list. Silas D. War-ner, 727½ Commercial St., Atchison, Kan. WRITE for our free list of eastern Kansas farms and ranches for sale. The Eastern Kansas Land Co., Quenemo, Kan. HAMILTON AND STANTON county lands, \$8 up. Write me your wants. Tomson, Syracuse, Kansas.

IF YOU WANT TO-BUY OR TRADE for a farm in Franklin county write J. T. Frinty with Kansas Land Company, Ottawa, Kansas.

480 ACRES, all fine smooth, rich. tillable land, black soll, no rock, 2 sets buildings, 14 mile town, only \$85 per acre. Easy terms. Swell Land Co., Garnett, Kansas.

MAKE A FINE DAIRY FARM 130 acres near Emporta, one-half bottom land, good buildings, \$125 an acre. T. B. Godsey, Emporia, Kansas.

THREE HUNDRED ACRES WHEAT FREE Two half sections, both improved, level, close to town. \$40 per acre. Terms. Pos-session. Joe F. McHugh, Owner, Grigsby, Kan. BANCH BARGAIN-400 a., 5 miles out, im-proved, 200 a. wheat, barley, corn. Special price for 60 days, \$22.50 per a. Terms. Write for land list. E. E. Jeter, Lenora, Kansas.

BIG INTEREST ON MONEY invested in Nemaha county, Kansas, Choice farms, Reasonable prices with good terms, Write, J. B. Wood, Seneca, Kansas.

THREE OHOICE QUARTERS, 325 per acre, terms on half; in Seward County, 3 mi. south Satanta, 1 mi to school. Every acre choice level sandy loam. No trades. Griffith & Baughman, Liberal, Kansas.

NESS COUNTY BARGAIN-160 a. within 31/2 miles of Utica, good neighborbood, 70 a. under cultivation, balance grass, unimproved, \$4,000 buys it. Terms. No trade. Write, Jus, H. Little, The Land Man, LaCrosse, Kan.

A BABGAIN A good quarter, 40 acres of wheat, price only \$4,000 for quick sale. Wheat never looked better. Write for land list, free. Justin T. Avery, Traer, Decatur Co., Kansas, IMPROVED 160-ACRE FARM, one mile Ot-tawa. All tillable, splendid home proposi-tion. Belongs to heirs. Priced right for quick sale. Write for description and booklet. Mansfield Land & Loan Co., Ottawa, Kansas. 240 ACRES, 4 miles from town, well im-proved. Price \$100 per acre with % of crop. 40 acres, 1½ miles from Garnett. Price \$5,000. crop. 40 acres, 172 Price \$5,000. Triplett Land Co., Garnett, Kansas.

miles town, Fair improvements. 75 per cer good tillable land, 160 acres fine growin wheat, 35 acres alfalfa, nice never failin spring creek. Terms on one-half, 6 per cer interest. E. M. Ensign, Owner, Healy, Kansas. 160 ACRES, oil district, Wilson Co., 3½ miles school, church; 2 sets of good im-provements; plenty water; orchard. Good alfalfa ground, all can be cultivated. Mort-gege \$1,600. For quick- sale \$100 per F. N. Elsenraat, Chanute, Kansas.

A GREAT SECTION 500 acres smooth. 140 acres rolling. Living water fed by springs. On graded highway only three and one-half miles from good town. Wonderful soil. Nothing better for wheat. A snap at \$22.50 per acre, if taken quick. Terms. quick. Terms. THE BROOKE LAND & TRUST COMPANY, Winona, Kansas.

BONDS OF CASH Eighty acres, on Wilson and Elk Co. line. Six miles from town. No improvements, part bottom land, some rough with good timber. Farm hasn't been taken care of. Land in fine shape. Make good home. Price \$2,800, \$1,000 incumbrance, six and one-half per cent, four years to run. H. M. Varner, New Albany, Kansas.

320 WELL IMPROVED, deep black soil, 160 in wheat and barley, 50 for spring crop, can lease abundance grass land adjoining. Price \$11,000, terms, 800 acres all smooth, fine improvements, fine water, 320 wheat ½ goes, 100 for spring crops. Possession now. Price \$40 extra good terms. Write for bargain list and Kansas map. Mansfield Investment & Realty Co., Healy, Lane Co., Kansas.

FOR EXCHANGE-\$15.000 telephone system FOR EXCHANGE—\$15,000 telephone system located Circleville. Kan., 270 phones town and country, real estate office. small house, exchange in good running order. For some-one who has help can clear above all ex-penses \$250 to \$300 per month. Owners nonresidents want 80 or 160 acres of im-proved land, will pay cash difference. Please to price and describe what you havo in first letter. Owners. W. D. Green, Holton, Kansas.

1.280 ACRES WICHITA CO., KANSAS Solid body; 4 miles north of Leoti, county seat. 250 acres Beaver Creek bottom land, 6 to 15 feet to sheet water, splendid alfalfa land, does not overflow. 2 miles running water; small. per cent rough land; graded county road running by place; unimproved. Will make splendid stock and grain ranch and a real home close to county seat; D. F. CARTER, OWNER, Leoti, Kansas.

1280 A. in Mitchell County

¹/₂ in cultivation, balance pasture and mow land, a good stock ranch and priced to sell. Address J. R. Wear, Barnard, Kansas.

Kingman Co. Famsr and Ranches Aingman Co. Fainsf and Kanches Some good grass land, from 400 to 640 acres in tract, well fenced and plenty of good water, at \$35 per acre. A large list of improved and unimproved wheat farms, corn or alfalfa land ransing in price from \$50 to \$100 per acre, some extra well improved and fine land at \$125 per acre. Kingman county offers a splendid oppor-tunity for homeseekers. Call on or write FIESER & RILEY, Kingman, Kansas,

REAL BARGAINS—TAKE YOUR CHOICE 160, 320 and 400 a. Rush Co. farms, near town, must sell in 30 days. Owner leaving state. Small cash payment, bal. ten yrs. 500 a, good wheat. I. E. Miller, Alexander, Kan. DICKINSON COUNTY, KANSAS has the best farming lands in state with splendid rich alfalfa, wheat, corn lands, that can be bought at right prices from \$85 to \$200. Write for lists. A. R. Pautz, The Land Man, Abilene, Kan, 160 A. KAW Bottom, 3 miles of Lawrence, fair improvements, fine farm. Priced right. 160 a., 3 miles from Lawrence, never fail-ing water, very fine improvements. Priced at \$25 less than its value. 200 a. farm 13 miles from Lawrence, 3 miles from station on U. P. R. R., good im-provements at \$90 per acre. Suburban and city properties.
W. S. Chwson; 744 Mass. St., Lawrence, Kan. FINE 160 ACRE FARM Franklin County, Kansas Good improvements, 1 mile town; 30 acres heat; 30 acres pasture; all good land.

Cool Weather has prevailed dur-ing most of the past week and rain has fallen in practically every part of the state. While the cool is and it has only started in the southeast from 50 to 90 per cent of the weather has been hard on most of the weather has been favorable for the state for the state. In the southeast from 50 to 90 per cent of the corn ground has been planted, the

C ooL weather has prevailed dur-ing most of the past week and rain has fallen in practically counties and it has only started in the every part of the state. While the cool weather has been hard on most of the spring crops it has been favorable for wheat, rye, and barley. No serious danger is anticipated now from the Hessian fly and a fairly good crop of wheat is expected. The wheat fields from the border of Eastern Kansas to the Western limits of the wheat grow-

May 8, 1920.

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NEBRASKA

160 ACRES, 100 level, 60 in wheat. Six and a half miles from Culbertson. Price 5,000. A. R. Smith, The Land Man, Cul-bertson, Nebraska.

NORTHEAST NEB. farm bargains. Remem-ber, we are in the surest crop section of Neb. No crop failures. Large list, 40's, 80's, 160's, 240's, 320's, 640's. Also ranches for sale Lemont Land Co., Norfolk, Nebraska.

PIERCE CO. NEB. FARMS FOR SALE. Highly improved farms of 80, 160, 240, 320 so acres. Grows best crops alfalfa, corn ats, wheat and rye. Write owners for prices. Pierce Investment Co., Pierce, Neb.

NEW MEXICO.

220 ACRES, irrigated land, raise most any-thing, near French, N. M. \$150 a., 60 a. wheat, 20 a. alfalfa, 40 a. for beans and corn, good fences, 4-room house, barn, etc., plenty water. 160 a. pasture, lease at 150 per a. r. 160 a. pasture, lease at 15c per a., with sale. Fine climate. Oil prospect F. J. Dermer, Owner, French, N. M.

NEW YORK

MONEY MAKING FARMS in N. Y. state. Crops. tools, stock, good buildings for less than \$100 per acre. Catalog free. Lewis Farm Agency. Est. 1896, 580 Ellicott Square, Buffalo, N. Y.

IF YOU ARE LOOKING for a good farm of any size and for any purpose, near good markets, in the state of New York, espe-tally in the Mohawk Valley, write to LEO J. FELD, 107 State Street, Schenectady, N. Y.

TEXAS

INEST OPPORTUNITIES for diversified farming. How much land do you want and what terms? Improved or unimproved? Railroad Farm Bureau, San Antonio, Texas. IFETIME OPPORTUNITY, get your money working. Panhandle bargains. Bumper prope, and recent oil possibilities are all freat. Write today. J. N. Johnson Land Co., Dalhart, Texas.

SALE OR EXCHANGE

ANT TO HEAR from party having farm for sale. Give particulars and lowest price, hn J. Black, Capper St., Chippewa Falls, Wis.

FOR SALE AND EXCHANGE Northwest Missouri farms, the greatest in beit in the United States. Also west-n ranches. Advise what you have. M. E. Noble & Co., St. Joseph, Mo.

MISCELLANEOUS

RODUCTIVE LANDS—Crop payment on easy terms. Along the Northern Pac. Ry. Minnesota, North Dakota, Montana, Idaho, Yashington, Oregon. Free literature. Say hat states interest you. L. J. Bricker, 81 Orthern Pacific Ry., St. Paul, Minn.

ELI. YOUR PROPERTY quickly for cash, no matter where located, particulars free, real Estate Salesman Co., 515 Brownell, Incoln, Nebraska,

ANDLE MORE BUSINESS? Are you get-ling all the business you can handle? If of get big results at small cost by running classified ad in Capper's Weekly. The reat News Weekly of the Great West with ore than a million and a quarter readers. Ample copy free for the asking. Only 8c word each week. Send in a trial ad now hill you are thinking about it. Capper's Weekly, Topeka, Kan.

ERGINS & CO., LAWRENCE, KANSAS.

arm & Ranch Loans Kansas and Oklahoma

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

the Western limits of the wheat grow- devoted to these crops there. In the ing sections of Colorado are reported southwest very little work has been o be in very excellent condition at this accomplished as yet owing to the dry condition of the soil.

time. J. C. Mohler, secretary of the state board of agriculture, in his weekly especially the eastern part, as in Doug-las and Johnson counties, were dam-aged by freezing weather on the night of April 27. The weather has been too cool for best growth of this crop as yet. "Alfalfa and the hay crops are very

backward but the past week has seen some improvement over the week before. The plants are in good condition. however, and with warm weather will show gratifying progress. Pastures are starting up nicely but very little stock has been turned on them as yet.

Fruit Prospects are Poor

"Sugar beets are being planted in the Arkansas Valley, especially Finney county, where 25 or 30 per cent are now planted. Fruit prospects are no better than a week ago, cold weather holding back fruit buds. Light frosts occurred during the week but probably caused little damage.

"Soil "conditions are good in practically all sections of the state and the general opinion is that it is plowing and working down better than in many years preceding. In the northeastern section it is a trifle heavy owing to recent rains, while in the southwest good rains are badly needed in order to start the spring work satisfactorily."

Local conditions of crops and the progress of farm work are shown in the following reports from our county crop correspondents:

Atchison-Wheat looks very promising. Atchison-Wheat looks very promising. Clover, alfalfa and oats also are in good condition. Oat fields are washed badly, and the ground is rough. Some fields will be difficult to harvest with a binder be-cause of ditches. Farmers are preparing their own ground. Fruit trees on high ground are in bloom, but fruit on bottom land was damaged by the freeze.-Alfred Cole, May 1.

Cole, May 1. Barber—An excellent rain fell Apr⁴] 25 and 26, and prospects are more encouraging. Perhaps 50 per cent of the wheet acreage will be left to mature. Weather still is cold and spring crops are not doing as well as they should. Most livestock has been turned on grass, and many trains of cattle are being shipped to pasture on the long grass in the eastern part of the state. Sales are infrequent, but livestock brings satisfac-tory prices.—Homer Haylings, April 30. Cheyenne—We are having warmer weather

tory prices.—Homer Hastings, April 30. Cheyenne—We are having warmer weather now, Five inches of snow fell April 18, pre-ceded by three days of rainy weather. Nearly 4 inches of moisture fell during April. Wheat is doing well, but alfalfa and pas-tures are backward. Feed is getting scarce and some stock suffered during the stormy weather. Not much wheat is going to mar-ket on account of bad roads. There is not much demand for barley and corn. Several public sales are billed for next week. Eggs are worth 35c; butterfat, 64c.—F. M. Hur-lock, April 24.

Clay—Cattle and colts will go to pasture today, but herds are small this year, and many pastures will not have much stock in them. The wet cool weather has delayed corn planting. Roads are heavy. No. 2 wheat is selling for \$2.62; corn, \$1.65 to \$1.75; hogs, \$12.50; hens, 29c; hides, 14c; butter, 60c; butterfat, 55c; eggs, 36c.—P. R. Forslund, May 1.

Forslund, May 1. Douglas—Weather is cool, and nights are frosty. This is good wheat weather. Corn is nearly all planted, and the ground is in excellent condition. Harvest will be late this year. Oats are doing well, and more has been sown than usual. There will be plenty of fruit for the sugar we will have. Livestock is doing well, and most of it is on pasture.—O. L. Cox, May 1. Fdworde—Wheat that was not killed dur-

each week. Send in a trial ad now you are thinking about it. The asking. Only 8c Capper's Weekly, Topeka, Kan.
 For 40 years we have paid our customers the highest returns consistent with conservative well. A very large acreage of corn will be planted because of the unsatisfactory consumpled after thorough investigation. Ask for loan list No. 907.
 Instein the the asking. Only 8c on pasture.—O. L. Cox, May 1.
 Edwards—Wheat that was not killed durated to the source of the unsatisfactory condition of wheat. Much kafir and cane also will be planted.—L. A. Spitze, May 1.

Will be planted.—L. A. Spitze, May 1. **Ellis**—We had a good rain April 24 and 25 which benefited growing crops. Farmers are listing corn and other grains. A great deal of wheat is going to market. A few public sales have been held and everything sells well. Wheat is worth \$2.25 to \$2.65; corn, \$1.60; oats, \$1: cream, 57c; eggs, 37c. —E. F. Erbert, April 30. Ford-Weather is unsettiled and sold and

Ford—Weather is unsettled and cold, and we had a good rain April 23. The weather has been favorable for wheat. Oats and barley are doing very well. Farmers are planting corn. Pastures are getting green, barley are doing very well. Fail planting corn. Pastures are gettin and a few farmers are pasturing John Zurbuchen, April 30. wheat.—

Harvey-We had an excellent rain April 25, and wheat and oats are getting green. Corn listing is progressing rapidly. Live-stock is healthy. Butter sells for 50c; eggs, 38c; potatoes, \$6; wheat, \$2.65; sugar, 31c. -H. W. Prouty, April 30.

Jackson-Weather continues cold and wet. It is delaying corn planting. Wheat and oats are satisfactory, and alfalfa is growing well. Pastures will be good when we have a few days of warm weather. Corn sells for \$1.70; wheat, \$2.60; oats, \$1; hogs, \$15.-F. O. Grubbs, May 1.

a few days of warm weather. Corn sells for \$1.70; wheat, \$2.60; oats, \$1; hogs, \$15.Jewell-Rain has fallen every Saturday and Sunday for four weeks, and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land where weeks and farmers are grant of the land weeks are occurs. So corn is planted, but very little work in the fields. A short what has been sown to oats. No corn has been planted yet. Pastures are graving slowly, and April 28.
Kiowa-Farmers believe 75 per cent of the menu in most homes.-U. S. Godding, May 3.
Kiowa-Farmers believe 75 per cent of the menu in most homes.-U. S. Godding, May 3.
Kiowa-Farmers believe 75 per cent of the proyneement. Farmers are planting corn planting is progressing, and the acreage will be large cont freezes. Potatoes are coming up. The first cutting of alfalfa will be good. Corn is worth \$1.60; oats, \$1.10; corn, but it is cold.-H, E. Stewart, April 24.
Mand wheat are making a good growth, but it so cold. and many cattle have been turned grant freezes. Public roads are being graded, and first cutting of alfalfa will be good. Corn sheep, and they are doing very well. Shearing time is here, and wood brings groud. Is ready for planting. Congo for planting corn. Pastures are flocks of the sol work is being done. Drilling for oil began April 29 in this county. Cora sheep, and they are blocks of the sol for the sol fo

worth 14c.—Mrs. O. J. Mitchell and J. w. Clinesmith. Logan—Good rains fell April 19, 24 and 25. Barley and oats look well. Some gar-dens are planted, and farmers will put in corn next week. Cattle are healthy and there is a great deal of rough feed left. Some wheat is blown out, but most of it is salisfactory. Several farmers have bought tractors this spring. Most of them are small. Milk cows are worth \$85 to \$100; corn, \$1.50; barley, \$1.15; oats. 85c; prairie hay, \$15.—T. J. Daw, April 27. Lyon—Wheat, alfalfa and oats have grown very fast the past three weeks. We have plenty of pasture for livestock on the freeze of April 4. There still is plenty of feed, and livestock is in good condition. Prospects are good for gardens and po-tatoes.—E. R. Griftith, May 1.

Prospects are good for gardens and po-tatoes.-E.R. Grifith, May 1. MePherson-Wheat in this county is in good condition, with the exception of two localities. Oats are growing unsatisfactor-ily. Some corn has been planted, but all spring crops are slow and backward. The weather is too cold for them. Pastures also are late. Pig crop will be small this spring. Hired men receive \$80 a month. Corn sells for \$1.80; oats, \$1; hogs, \$13.50; eggs, 36c.-John Ostilind, April 27. Nemaha-We have had several very severe dust storms. A heavy, cold rain fell April 24, 25 and 26. Fields were already water-soaked and packed, but are much worse now, it will be two weeks before the fields can be entered. A late spring is inevitable. Gardens are coming up, but it is too cold for them to grow satisfactorily. Some corn has been planted, but will require replant-ing.-A. M. C., April 26.

ing.—A. M. C., April 26. Osage—Weather is favorable for wheat, alfalfa and bluegrass, but we have not had enough rain to stop water hauling. Live-stock has been on bluegrass pasture for a week, but paririe pasture is a little slow. Pasture rents are lower. Cream and butter prices are high. Labor is very high. and much. work is neglected on farms.—H. L. Ferris, April 30.

Osborne-We have had several good rains recently, and the ground is soaked thoroly. Wheat is doing well, but barley, oats and grass are about two weeks behind their usual growth. Weather is too cold for corn planting. Livestock still is on dry feed. Farmers will raise more chickens than usual.-W. F. Arnold, May 1.

April 24. gophers, which it allowed to remain Reno-Weather has been cold and blustery this month, and only one-half of the corn crop has been planted. Wheat and alfalfa are growing well, and pastures are starting satisfactorily. Potatoes are up, and fruit trees are blooming. All old wheat has been sold.—E. Engelhart, April 23. Swith—All crops are making show marking the more than the starts are starting sold.—E. Engelhart, April 23. Swith—All crops are making show marking the more than the starts are starting the starts are starting sold.—E. Engelhart, April 23.

Wheat prospects are good. Not much corn has been planted. No shipments of cattle have been made since the strike, and farm-ers have had to hold many fat hogs, which is expensive. Livestock is healthy. Land prices are advancing, and farmers are mak-ing improvements on their places.—J. M. Helfrick, April 30.

Helfrick, April 30. Sherman—Farmers are finishing seeding spring wheat and barley. 'It is about four weeks late. About one-fourth of the winter wheat was blown out and has been reseeded to spring wheat and barley. The blizzards, high winds and cold freezing weather are hard on crops and livestock. Grass will be green by May 1. Feed is nearly gone. Some stock was lost in the storms.—J. B. Moore, April 24.

stock was lost in the storms. J. B. Moorey April 24. Stafford—The rain on April 23 and 24 greatly benefited all growing crops. Some fields of wheat show good prospects, but others look very discouraging. Ground now is in excellent condition to plant corn. Oats are more satisfactory, but gardens are back-ward. Few public sales have been held Livestock is on pasture. Wheat is worth \$2.60; corn. \$1.65; hogs. 13c; butter, 40c; eggs. 28c.-H. A. Kachelman, May 1. Sumner-A little rain which fell the first of the week helped growing crops some. Wheat and oats look well in some paris of county, but the prospects are poor in other localities. Corn is planted, but very little kafir and cane has been put in. Grass is short. Wheat sells for \$2.60; coits, \$1; corn. \$1.65; butterfat. 66c; eggs. 33c.-E. L. Stocking, April 30.

To Destroy Pocket Gophers

Thru experiments at the Kansas State Agricultural college it has been found that the most practicable and successful way to combat pocket gophers is by poisoning. It also has been found that the best time to poison them is during the fell after the first them is during the fall after the first heavy frost until the ground freezes. At this time the pocket gopher is stor-ing up food for the winter and takes the bait more readily than at any other time. The Kansas State Agri-cultural college has formulated a pois-oned oats bait which has proved very successful and it will be supplied at cost to persons wishing to use it.

By buying all the ingredients at wholesale we are able to manufacture the bait cheaper than it could be prepared in small quantities by indi-viduals. However, the formula will be given to any one who desires it. The best method of administering the bait is to find the runs around the mounds by means of a probe. A wagon rod can be used to good advantage. When the run is found the probe will break thru the soil. This small hole should then be enlarged by thrusting a broom handle into it. Care should be taken not to thrust the large probe far enough to make a hole in the bottom of the runway, as the bait, would fall into this and not be found by the gopher. After the hole has been enlarged in this way a teaspoonful of the poisoned oats should be poured in and the hole closed Pawnee—We are having good growing by a clod or wad of grass. A single weather for oats and barley. Wheat was damaged 50 per cent by high winds in March and April. A large acreage of corn will be planted. Wheat is selling for \$2.65; way, and every system should be baited fat, 65c.—E. H. Gore, May 1. Bawline—We had there grams to make the fourth of the basis of the bas

fat, 65...-E. H. Gore, May I.
Rawling-We had three snow storms in April, and 20 inches of snow fell, besides 2 inches of rain. The snowfall of the winter was 50 inches in the north part of county, and less in the south. Wheat is late, but is coming out in good condition. It is too wet to plant corn. Quite a number of cattle leveled and any new mounds of indi-were lost in the storm of April 11. The viduals missed the first time should was well attended. The sale was held in Atwood in the new sale pavillon just com-pleted at a cost of \$15,000. The pavillon scatts 1,000 persons, and it was full. The as \$1,000. One cow, 3 years old, sold for \$5,000.-J. S. Skolant and A. Madsen, April 24.

ohn Zurbuchen, April 30. Gove and Sheridan—The rain of April 24 have checked the growth of crops and grass. ricultural college, Manhattan, Kan.

KANSAS FARMER AND MAIL AND BREEZE

Grain Market Report

44

DUROC JERSEY HOGS.

Grandsons of

ORION CHERRY KING

Sig husky spring yearlings, their dams by Potea-ate and John's Colonel Orion. Also fall boars by our herd boar, Pretty Valley Redeemer, that are real prospects. If you want the top blood of he breed at farmers' prices, write us today for

PRETTY VALLEY FARM, GYPSUM, KANSAS Ross M. Peck, Prop.

Big Type Boars

Pathfinders, Colonels, Orion Cherry Kings and other popular Big Type strains from ing mature sows. Immuned, Priced to sell. G. M. SHEPHERD, LYONS, KANSAS

WOOD'S DUROCS

Spring pigs, both sexes. Great Wonder strain; -registered; immuned, double treat-

Replogle's Durocs

McCOMAS' DUROCS

Big type fail boars, Pathfinder and Sensa-tion breeding. Classy boars for the breeder

W. D. McCOMAS, Box 455, Wichits, Kan.

Fulks' Large Type Durocs

All immuned, guaranteed. W. H. FULKS, TURON, KANSAS

Extra good spring boars sired by Unceda High tion the grand champion. One of these took first Wichita. Also fall boars by Neb. Col. Chief.

Mueller's Durocs A fancy lot of spring glits and tried sows bred for April farrow to Unceda King's Col. Graduate Path-finder and Unceda High Orion, Jr. 15 toppy fall

Geo. W. Mueller, Route 4, St. John, Kansas

Wooddell's Durocs

15 toppy fail boars for sale. Sized by Chief's Wonder, Pathfinder Jr. and I Am Great Wonder; from big mature sows. One of the best sow herds in Kanasa, Priced to sell at once. G. B. Wooddell, Winfield, Kan.

VALLEY SPRING DUROCS

August boars and gilts, immuned; weanling pigs (6 to 10 weeks old) after May 1st, registered at \$15 up. Pathfinder's Orion Col., Sensation and other big type

strains. Satisfaction or your money back. E. J. BLISS, BLOOMINGTON, KANSAS,

CHOICE SEPTEMBER PIGS

either sex \$40. Pairs and trios not akin; recorded and guaranteed immune. March pigs either sex, weaned May 8th, \$20 each. Express prepaid on pigs. D. O. BANCROFT, OSBORNE. KANSAS.

Gilts Practically All Sold

but we have a few good fall boars sired by Uneeda High Orion our Grand Champion boar. We are prac-ing these to sell. We also have one yearling by the same boar that is going to make a real herd boar.

We will sell him worth the money. ZINK STOCK FARMS, TURON, KANSAS.

SPRING AND FALL BOARS

Big stretchy fellows ready for immediate use. Sired by Reed's Gano. Potentate's Orion. Dams by Pathfinder, King the Col. and Crimson Wonder. Immuned. Priced to sell. JOHN A. REED & SONS, LYONS, KANSAS

Duroc Fall Boars

Ready for spring service. Also baby boars for May delivery. Reasonable prices. Circula free. Scarle & Scarle, B, 15, Tecumsch, Kan

W. A. WOOD, ELMDALE, KANSAS

(Continued from Page 41.)

sparingly. Linseed cake and meal also is easy. After a steady downturn from above \$80 a ton at Minneapolis, the principal crushing point, to about \$64, the market rebounded to \$70 and since has fallen to approximately \$68. Exporters, normally the important buy-ing element, are taking little linseed and cottonseed feed, nor is this de-mand expected to develop soon.

Bran and Shorts

Demand is not pronounced in the bran and shorts trade, but scarcity of offerings is maintaining prices at current extraordinary levels. Were mills allowed to operate freely, which would be the case with a setlement of the rail switchmen's strike, the market for millfeed would not be maintained; in fact a slump of \$10 a ton before in fact a sump of \$10 a ton before the close of the crop year is a common prediction in trade circles. For the present, however, the bulls have the upper hand. Bran is bringing \$52 to \$53 a ton, and gray shorts are selling up to \$60 a ton. Deferred deliveries are sharply discounted. Slight easing in the rail situation Spring boars; registered and immunized; Orion, Il-lustrator and Colonel bloodlines. Gilts and fall pize of same breeding. Satisfaction guaranteed. SID REPLOGLE, Cottonwood Falls, Kansas.

Slight easing in the rail situation is permitting a freer movement of hay, and eagerness to fill orders, which accumulated during the complete halt in the trade resulting from the strike, are forcing prices up slightly. Advances amounted to around \$2 a ton on al-falfa, and tame hay and prairie dis-played a very strong tone. But it is believed this is only temporary strength. It is too close to the period for new group offerings to nermit any for new crop offerings to permit any material upturns in hay for any lengthy time. The use of pastures also is cutting down demand. Alfalfa is selling at a range of \$17 to \$36, tim-othy at \$25.50 to \$36 and prairie at \$12 to \$25.

June 16-E. Ogden & Son, Maryville, Mo. Oct. 14-Linn Co. Shorthorn Breeders' Ass'n Sale, Pleasanton, Kan. E. C. Smith, Sec'y. Oct. 16-Boys Caif Club, Effingham, Kan. Robt. Russell, Muscotah, Kan., Mgr. June 1-C. S. Nevius & Son, Chiles, Kan. June 5-A. L. Johnston, Lock Box 36, Lane, Hereford Cattle

Hereford Cattle. May 12-Sam Drybread, Elk City, Kan, Poland China Hoga.

Aug. 25-The Deming Ranch, Oswego, Kan. H. O. Sheldon, Supt. Swine Dept. Duroe Jersey Hogs.

Oct. 15-Ino. C. Simon, Humboldt, Neb. Oct. 18-Bobt, E. Steele, Fails City, Neb. Feb. 17-Jno. C. Simon, Humboldt, Neb. Feb. 18-Robt, E. Steele, Fails City, Neb. Chester White Hogs.

July 27-Arthur Mosse & Daughter, Leave worth, Kan. Oct. 21-J. H. Harvey, Maryville, Mo.

Percheron Horses. May 20-L. C. Lauterbach, Pretty Prairie Kan.

Sale Reports

Behrent's Hereford-Poland Sale.

Behrent's Hereford-Poland Sale. Carl Behrent, Oronoque, Kan., Norton county, heid his postponed Hereford and Poland China sale at Norton, Saturday, April 24, in another storm but with a fairly good attendance and the result was satisfac-tory to Mr. Behrent. The nine young buils averaged \$252 with a \$445 top. The 16 heifers sold open averaged \$317. The 22 Poland Chinas averaged \$318 with a \$145 top. The top price paid for one of the open heifers was \$500 and she went to Huston & Smith, Gem, Kan. The big attraction at the sale was Grover Mischief. Every busi-ness man in Norton feels a real pride in Mr. Behrent's great show and breeding buil. His get is always in demand. This was the reg-ular annual spring sale and it will be re-peated again next spring.

N. W. Kansas Shorthorn Sale

HORSES AND JACK STOCK

3 PERCHERON STALLIONS--3 Two year olds. Two by Farfait and/one by Kansas Boy. Strong clean boned, good eet, chest, etc., with plenty of style, ac-ion, and pep. Guaranteed absolutely bound and good breeders. Priced to move. Photographs and copies of pedigrees fur-lished on request. A. H. TAYLOR & SON, Sedgwick, Kan.



Kepples Bosquet, by Im. Bosquet, formerly owned by the K. S. A. C. He is sound, sure and a very stylish and heauliful horse. His dam weighed 2,200 pounds, his sire 2,400 pounds. He is ten years old, broke to work, weighs a ton or more, in flesh, weighs about 1,850 pounds at present, has been working all spring; also have others for saie and some mares, too. E. J. Hartman, R. 2, Great Bend, Kansas

Percherons-Belgians-Shires State Fair prize-winning stallions and registered marces bred to Champion stallion for sale. Also extra heavy black Mammoth Jacks. Fred Chandler, Rt. 7, Chariton, Ia.

3 JACKS, 7 JENNETS Herd headed by Barr's Bryan, a prize winner and good producer. Most of the Jennets by Kansas Chief. Priced to move. Write today. E. W. DALES, EUREKA, KANSAS ALL OUR JACKS AND JENNETS

ALL OUR JACAS AND Subtract and were sold but we still have a good line of ready to use jacks and bred jennets at private sale. H. T. Hineman & Sons, Dighton, Kan.

For Sale or Trade Good black Spanish jacks; one jennet. My stallion died; quitting business. Andrew Ford, Linwood, Kan. ONE FOUR-YEAR-OLD JACK d two jennets for sale; Mammoth stock. Ezra Stephen, Geuda Springs, Kansas. and tw

POLAND CHINA HOGS

Poland Chinas from our Prize Winning Herd

Breeding stock of all ages for sale at all times. Plainview Hog and Seed Farm Frank J. Rist, Prop. Humboldt Nebraska

BIG TYPE POLAND CHINAS Weenling pigs out of big 2-year-old sows and by Big Orphan Wonder, Write your wants. F. M. SIMON, B. 2, COLWICH, KANSAS



POLAND CHINA HOGS.

May 8, 1920

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THE DEMING RANCH, OSWEGO, KAN, Address H. O. Sheldon, Supt., Swine Dept. **Big Type Poland Chinas**

lood Growthy weanling pigs at \$15.00 each sired he following boars: Seward Buster, Daylight hand Orange Lad, Will sell trios not related. Pagerees furnished. Satisfaction guaranteed. HENRY S. VOTH, R. 2, GOESSEL, KANSA

BIG TYPE POLANDS We have nothing for sale at present except some good fall pigs, but will have a fine by of spring pigs for sale soon. FRANK L. DOWNIE, R. 4, Hutchinson, Es.

Baby Pigs For Sale Baby pigs from A. J. Swingle's herd of w type, heavy boned, prolific Polard Cha hogs. Write for description and prices A. J. SWINGLE, LEONARDVILLE, KAL

PEDIGREED POLAND PIGS Boar pigs at weaning time by Elack Busie and out of A Wonderful King sow. Sath ction guaranteed. Mark D. Lewis, Cenway Springs, Kansus

75 Extra Good, Big, Stretchy Polant Fall pigs, some real hard boar prospects; very b of breeding; pairs or trios no kin; immuned; pa to sell. Guaranteed to please you or your money ba ED SHEEHY, HUME, MISSOURI

FAIRVIEW POLAND CHINAS Full values offered in a choice lot of fall pa either sex. They weighed, up to 200 pounds a March 15th. Write us for description and price.

P. L. WARE & SON, PAOLA, KANSAS **REAL POLANDS AT FARMER'S** PRICE Choice gills of Big Bob Wonder and Big Ta breeding bred to Hilferest Ornange Model by the \$100 Grange Model Fail pies, both asxes, by Sherdan Bob Wonder by Big Bob Wonder. Real ones at me prices. Write us. J. B. SHERIDAN, Carnelro, ka

FALL PIGS FOR SALE Have a few fall boars to sell. They are stred by a son of Big Bob Wonder and out of Big Timm sea They are real good stretchy follows and will mak large hogs at maturity. JAMES ARKELL, JUNCTION CITY, KAN

Ross & Vincent's Poland China Gilts and boars, Sept. and Oct, farrow. A few has sows. Herd sires are Sterling Buster and Stell Timm, two of the breed's best boars in Kansas. Those we are offering are good both in individual and in breeding and are priced right. Satisfatter guaranteed. ROSS & VINCENT, STERLING, KAL

BEAVERS BIG BONED BOARS Good stretchy Polend China fall boars, full broken to the first and reserve champion sow at the His state fair. Sired by Kansas Giant; others sired # Big Bob Standard by Bob Wonder. Edmund R. Beavers, Route 2, Junction City, Kaus

Big Type Polands extra good fall boar sired by Hadley's bef sht about 200 pounds. Also spring piss sin ader Bob, grandsize Caldwell's Big Bob. Sai guaranteed. Herman Dohrmann, Hudson,

HAMPSHIRE HOGS.

Hampshires of Type

25 bred sows and gilts. Herd boars in write Byergo's King 61985, Tip Tipton 35417, Iberga Glant 85095, Lookout Middway 82029, Some gilts will weigh from 275 pounds to 325 pums Everything well beited, good backs and good fet Bred to farrow from last of April to is June. Also have a few fail boars. EMMET BYERGO, BARNARD, MO.

Start Right With Silver Hamoshire uy your breeding stock from herd that stands r reme in SHOW RING AND BREEDING PIN. M le-Bred sows and gilts, also boars, one or a ad, Buy by mail. "Silver guarantee" back of en og. Drop postal card today for price lists. Wickfield Farms, Box 55, Cantril, Iows F. F. Silver, Prop.

MESSENGER BOY HAMPSHIRES WALTER SHAW, B. 6, WICHITA, KANS

WHITEWAY HAMPSHIRES Fall pigs, either sex, at bargain prices. P# ular breeding. F. B. Wempe, Frankfort, Fr SPOTTED POLAND CHINA HOGS.

OLD FASHIONED SPOTTED POLAN The kind-that have the bone, length and spots can furnish anything from baby pigs to choice boars, at the right price, on a money back gut if not satisfactory. Address SPEER & ROHRER, OSAWATOMIE, KA

Big Boned Spotted Poland Choice September and October boars for a ready for service. A few gilts bred or op CARL F. SMITH, CLEBURNE, KANS (Riley County)

OLD ORIGINAL SPOTTED POLAND Sows bred and proved. Ready to ship. To stock of all ages priced to sell. Write wants to CEDAR ROW STOCK FAR A. S. Alexander, Prop., Burlington. Kars FOR SALE—A prize-winning Spotted Pelly boar, two years old. Also August and so tember boars. Carl Faulkner, Viola. Kana REGISTERED SPOTTED POLANDS Pigs for sale. Good bone and breedlat T. L. Curtis, Dunlap, Kansus



Feeders Meet at Lincoln (Continued from Page 10.) more a pound. The silage fed to lots 2

to 5 inclusive was fed in large quan-tities from the beginning of the experiment to the conclusion of the 120day period. During the last 40 days no silage was fed but instead a full feed of grain. During the first 120 days only a medium feed of grain was fed to these four lots. Lot 3 fed a little more than 4 pounds of alfalfa molasses feed a day in addition to corn, silage, and alfalfa, made the least loss a head and likewise the most pork a head. The silage fed in lot 2 when compared with the ration used in lot_1 returned a valuation of \$9, altho it was only charged in the feeding test at \$8 a fon. The hominy feed in lot 5 did not prove to be quite as efficient as corn. A year ago the eattle in lot 5 fed an identical ration showed a good gain and the hominy feed proved to be rather more efficient

than corn. The results of these experiments demonstrate clearly that - cattlemen cannot hope to make any money out of their feeding operations until conditions change for the better. In fact most of them will do well if they break even. The experiments also show that any ration used must contain a liberal amount of silage in order to in-sure economical gains. This means that every feeder must be well supplied with silos and that they must be If the filled as often as possible. number of silos were doubled there still would not be enough of them to meet the demands.

The demands on the Fort Hays Experiment station for seedlings indicate an encouraging interest in tree planting in Western Kansas.

Public Sales of Livestock

Holsteins. May 11-12-13—Leavenworth County Holstein Breeders' Assn., at Leavenworth, Kan. W. J. O'Brien, Tonganoxie, Kan., Sale Mgr. Angus Cattle.

Oct. 16-Boys Calf Club. Effingham, Kan. Frank Andrews, Mgr., Muscotah, Kan. Shorthorn Cattle.

Shorthern Cattle. May 14—H. C. Lookabaugh, Watonga, Okla. May 15—Park E. Salter, Wichita, Kan., and J. C. Robison, Towanda, Kan. Sale at Wichita. May 20—Interstate Shorthorn Breeders' Ass'n. Sale at Ft. Scott, Kan. W. E. Buell. Mgr., Xenla, Kan. May 26—Kansas State Shorthorn Breeders' Association Sale, Manhattan, Kan., C. W. McCampbell, Sale Mgr. May 29—W. Preston Donald, Cilo, Iowa. Kan., at Ottawa, Kan.

STATE MARCHON





1438 12th St., Great Bend, Kansas R. 1, Pawnee Bock, Kansas





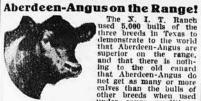


May 8, 1920.

WILL MYERS, Beloit, Kan. LIVESTOCK (laim your 1920-21 dates with me early. Bomer Rule, Oftawa, Kan. Specializing in purebred sales. RED L. PERDUE, DENVER, COLO. REAL ESTATE FICE: 320 DEWHAM BUILDING, DENVER, COLO.

Jas. T. McCulloch, Clay Center, Kan.

ABERDEEN ANGUS CATTLE.



berdeen-Angus on the Range! The X. I. T. Ranch used 5,060 bulls of the used 5,060 bulls of the used 5,060 bulls of the used to be old canard that Aberdeen-Angus do not the range. and that there is noth-ing to the old canard bulls of other breeds when used under range conditions. A grand champion carlot at the 1919 Interna-tion of 1917 and 1918 were range bred. The grand champion carlot at the 1919 Interna-tion of 1917 and 1918 were range bred. The grand champion carlot 1918. Lake City 1919. Alfonta City 1918. 1920, Jacksonville, Fla., 1919. defort Wore the same kind. Top market cattle at the same kind. Top market cattle at the same kind. Top market cattle at the aniually come from the Aberdeen-Angus. Herican Aberdeen-Angus Breeders' Ass'n 817 C Exchange Ave., Chicago, Ill.



ABERDEEN ANGUS BULLS

2 years old; 1 exceptionally heavy boned These bulls sired by Blackbird Invincible, bred bull and Black Educator sired by lawn a grand champion and a sire of ions. Can ship on U.P., R.I., or Santa Fe. II. Hollinger & Sons, Chapman, Kansas

Special Angus Offering red young cows bred to show bulls. year-old heifers bred. 35 yearling Young bulls serviceable ages. A SUTTON FARM, RUSSELL, KANSAS

EVERGREEN STOCK FARM registered Angus bulls from 10 to 25 d. They have size and bone. Write L KNISELY & SON, TALMAGE, KAN. STOCKTON KNIGHT 209141

d. wt. over a ton. Splendid breeder. We and four younger bulls from 12 to 24. Write for descriptions and prices. Bros., Luray, Kan. (Russell Co.) ekoff Bros



F. FRIZELL & SONS, FRIZELL, KAN.

OFSale Registered Red Polled

May S, 1920. Investor Auction EERS AND SALE MANAGERS. Bell M. 1921 Res. W. 5087 Mell M. 1921 Res. W. 5087 Max Struction All of the old officers were re-dected. Mr. Myers told the association when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was too busy with his auction when urged to accept the office for another year that he was a decided success and with the sale was a decided success hould not have been offered the above av-ors. E. A. Cory, the cificient sale manager as consigned on the splendid way in which the sale was handled. Ben Lyne year old cow. Gloaming, by Ury Dale She was complimented on the sale on his prease offered the sale on his prease offered the sale on his prease offered the sale on the splendid way in which the sale was handled. Ben Lyne year old cow. Gloaming, by Ury Dale She wany of the brease are street he sale on his prease offered and was complimented by many of the brease are the sale on his prease offered will meet at the Shorthor was complimented will meet at the Shorthor was and Dan Perkins of Concordia. The alses committee will meet at the Shorthor was another will werk and bar areage for the shorthor was another will meet at the shorthor was another the shorthor was ano

FEMALES.

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BULLS

Field Notes

BY JOHN W. JOHNSON

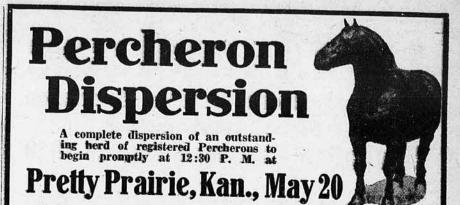
Arthur Mosse & Daughter, Leavenworth, Kan., who will be out with their big Chester White Show herd this fall will offer some bred gilts in June. This is the big Leavenworth county herd that cleaned up the ribbons at the big shows last fall. If you want a bred gilt that will put you on the map in the Chester White game it is none too farly to write them about her right now. —Advertisement. T. S. Shaw, Glade, Kan., Phillips county, is the well known breeder of Polled Short-horns that advertises frequently in the Kan-sus Farmer and Mail and Breeze. He is starting his advertisement again in this issue and offers his herd buil that he can't use honger and two other younger buils (polled) that are one of them by this buil and another by Meadow Sultan, the great Auchebach buil that Mr. Shaw now owns. Also two Shorthorn buils 13 months old. Mr. Shaw can ship either over the Missouri Pacific loading at Stockton or over the Rock Island loading at Phillipsburg. He would like to write you fully about these buils if you are interested.—Advertisement.

Real Herd Boar Material.

Real Herd Boar Material.
 Real Herd Boar Material.
 B. Sheridan, Carneiro, Kan., Ellsworth County, is a regular advertiser in the Kansas
 RED POLLED CATTLE.
 MEAD OF REGISTERED RANCH RED POLL CATTLE
 Mead Heifers from not to three year-old heifers from one to three year-old heifers from both South South

Tomson Shorthorns at Manhattan

Tomson Shorthorns at Manhattan Tomson Brothers at Waukarusa, Kansas, Toi Lis, Choice young bulls and heifers, Torken & Son, Phillipsburg, Kansas, BLUE HOGS. These hogs are actually blue in color. These hogs are actually blue in color.



20 Mares, Stallions and Colts. All with good, fashionable pedigrees in addition to their outstanding size and conformation. Every mare is guaranteed a breeder. The bred mares are in foal to the service of Lydus Jr. 140750, one of the really great grandsons of the grand cham-pion Casino whose blood has done so much good for the Percheron of America. A few mares will sell with foal at side and rebred, if possible, to Lydus Ir.

The Features of the Sale Include :- Godetia (2 yrs.) and Ghory (3 yrs.), a very evenly matched team that will mature at 4200 pounds; with a world of bone and quality; and safe with foal. The two great herd sires Brilliant L. 117447 (6 yrs.) and Lydus Jr. (2 yrs.).

Every Mare Of Working Age Broke To Harness. Stallions over 2 years old sold with bridles. This is your opportunity to get real foun-dation material carrying the best blood of the breed and to get it at your own price. Send for the catalog, mentioning this paper, and attend the sale.

L.C. Lauterbach, R.F.D. No. 3, Pretty Prairie, Kan.

Passengers will be met at Pretty Prairie on the Santa Fe. J. T. Hunter represents the Kansas Farmer and Mail and Breeze.



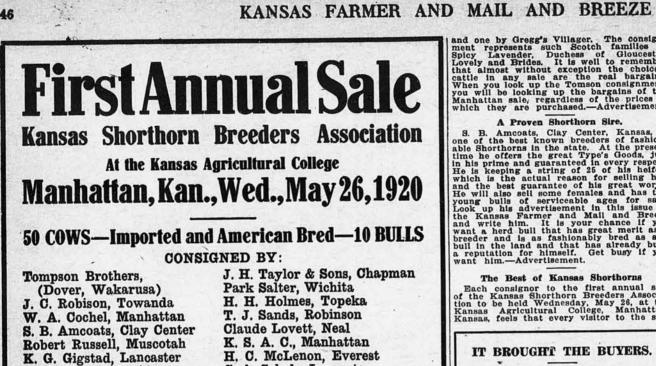
Hereford Bulls For Sale Anxiety Breeding

40 head sired by Beau Gaston 366153 by Beau President and Sir Dover 540942 by Beau Dover. 20 of these bulls are from 24 to 30 months old, the other 20 from 16 to 22 months. These bulls are in nice condition, have extra heavy bone; short broad heads and drooping horns; good dark Hereford colors. Priced to sell either one or both car loads or single animals. Have also two extra good herd bulls for sale.

Geo. J. Anstey, Prop. Fairview Herefords Massena, Iowa



ewes, two bucks and forty lambs; a 120 mixed ewes, shorn; aged mostly 2 to 4, and 80 February lambs, \$10 per head. W. J. ROBINSON, VIOLA, KANSAS Registered Hereford Bull 5 yrs. old; price \$155. F. Bubrie, Russell, Kan. Istered. R. C. Smith, Sedgwick, Kansas, HIGH GRADE SHROPSHIRE EWES, bred,



C. A. Scholz, Lancaster H. E. Huber, Meriden Mitchell Brothers, Valley Falls Wales & Young, Osborne Clarence Borger, Cawker City H. C. Graner, Lancaster Jacob Nelson; Broughton

MOSTLY SCOTCH BELONGING TO THE FOLLOWING FAM-ILIES: Augusta, Victoria, Nonparell, Butterfly, Orange Blossom, Queen of Beauty, Mina, Linwood Golden Drop, Duchess of Gloster, Violet, Mayflower, Mysie, Red Lady, Gipsy Maid, Sybil.

FEMALES OF FOLLOWING AGES: Four junior yearlings, eight senior yearlings, fourteen two-year-olds, six three-year-olds, twelve four to six-year-olds, six others.

BULLS OF FOLLOWING AGES: Eight junior yearlings, one threeyear-old, one four-year-old.

This sale offers a splendid opportunity to select high class, well bred cattle that have been raised right, and cattle that will be a valuable addition to anyone's herd.

The annual meeting of the Kansas Shorthorn Breeders Association will be held in connection with this sale and the sale cattle will be shown and judged during the forenoon of sale day. This sale is being held during "Commencement Week" at the College. This will enable held during visitors to attend the sale and enjoy Commencement festivities at the same time. For catalog address,

C. W. McCampbell, Mgr., Manhattan, Kan.

GLENWOOD FARMS 12th Annual Shorthorn Sale

40 head of outstanding Shorthorns so bred that they will breed on for their new owners will be sold 1 mile south of

Chiles, Kansas, Tuesday, June 1, 1920 10 cows with calves at foot by Golden Searchlight. 8 young cows bred to Golden Searchlight. 10 2-year-old helfers bred to Brave Sultan. 8 yearling helfers sell open. 4 high class bulls—real herd bull material. 25 are Scotch lots of the leading families. 20 are splendid roans. We bred the \$3,500 Cherry Blossom 6th by Searchlight, the top female in Park E. Salter's 1919 sale, and also Emma S by Searchlight, the dam of the 1919 champion female, Lady Supreme. This year's offering in-cludes the same blood and such families as Cherry Blossom, Marr Emma, Winifred Maid (Campbell Wimple), Victoria Pavonia, and Lustre. We are getting out our new mailing list. Send your name so you will receive a catalog of this sale.

CHILES, KAN. C. S. NEVIUS & SONS, CHILES, K Chiles is 40 miles southwest of Kansas City on the M. P.

Auctioneers: H. L. Burgess, H. O. Rule and H. M. Justice. O. W. Devine represents The Capper Farm Press.





TOMSON BROS., Wakarusa, Kansas, or Dover, Kansas

12

FOR'SALE 10 Scotch and Scotch-topped Shorthorn bulls, 8 to 12 months old at reasonable prices. H. G. BROOKOVER, EUREKA, KANSAS,

A DESCRIPTION OF A PARTY OF

and one by Gregg's Villager. The consign-ment represents such Scotch familles as Spicy Lavender, Duchess of Gloucester, Lovely and Brides. It is well to remember that almost without exception the choicest cattle in any sale are the real bargains. When you look up the Tomson consignment, you will be looking up the bargains of the Manhattan sale, regardless of the prices at which they are purchased.—Advertisement.

A Proven Shorthorn Sire.

A Proven Shorthorn Sire. S. B. Amcoats, Clay Center, Kansas, is one of the best known breders of fashion-able Shorthorns in the state. At the present time he offers the great Type's Goods, just in his prime and guaranteed in every respect. He is keeping a string of 25 of his helfers which is the actual reason for selling him and the best guarantee of his great worth. He will also sell some females and has two young bulls of serviceable ages for sale. Look up his advertisement in this issue of the Kansas Farmer and Mail and Breeze and write him. It is your chance if you want a herd buil that has great moril as a breeder and is as fashionably bred as any buil in the land and that has already built a reputation for himself. Get busy if you want him.—Advertisement.

The Best of Kansas Shorthorns The Best of Ransas Shorthorns sale Each consignor to the first annual sale of the Kansas Shorthorn Breeders Associa-tion to be held Wednesday, May 26, at the Kansas Agricultural College, Manhattan, Kansas, feels that every visitor to the sale

IT BROUGHT THE BUYERS.

Kindly discontinue our ad of Polled Herefords in the Mail and We have received a num-Breeze. ber of inquiries from this adver-tising and it has also brought buy-ers. With the correspondence that we have not heard from the second time, I think that we will be able to sell our surplus. Kindly send statement of account so that we may remit.—GOERNANDT BROS., Breeders of Polled Herefords, Aurora, Kan.

will judge his herd by the specimens he consigns to the sale. This feeling, has brought forth a splendid lot of cattle. To appreciate their quality, it will be necessary to look up the advertisement in this issue of Kansas Farmer and Mail and Breeze and note the herds represented in the sale. The best herds in the state are listed. Of the 60 head to be sold, forty cows and eight bulls are pure Scotch families. Sixteen cows have calves at foot at this time and seven others will calve by sale day. The balance of the females are safe in call for early fall calves. Dr. McCampbell has in-real "honest-to-goodness" herd header prospects. This is a sale of Kansas cattle from Kansas herds for the founding of new herds within the state. Be at this sale and make your start at that time if you are not already the owner of a purebred herd. If you have a herd of purebred Shorthorns, you will be able to make some valuable ad-ditions at Manhattan, May 26.—Advertise-ment.

270 Holsteins May 12-13.

270 Holsteins May 12-13. The Leavenworth county Holstein breeders association sale at Leavenworth, Kan., in the vertised in this issue of the Kanass Farmer and Maij and Breeze. In this big sale, 270 head Will be sold. Of this number 120 are hydry fail and Breeze. In this big sale, 270 head Will be sold. Of this number 120 are hydry fail and Wednesday and Thursday, May 12 and 13, the 150 purebreds will be sold. The big catalog is now about ready to mail and you should get your request for one to W. J. O'Brien, Sales Manager, Tonganoxie, Kan, at once. It will give all the infor-mation you want about the different things of interest in this big sale. Leavenworth centre because of the big markets close at hand. It stands to reason that dairy centers ike this are the place to buy your milk cows because nothing inferior is allowed to stay no these dairy farms but is sent to the mar-ket as fast as they are located. The con-herds that are in many instances cutting of portunities to get real foundation cows at very moderate prices. It was intended that its sale should be held in April but be-cause of the fact that some of the breeders outd not get ready it was postponed until the big grade sale on the 11th and stay

for the big two days sale of purebreds, May 12 and 13. The best of railroad facilities an to be had in and out of Leavenworth. The interurban from Kansas City arrives and doparts hourly. There are 30 trains inte Leavenworth every day. The National hote will be headquarters in Leavenworth. Writs W. J. O'Brien, sale manager, Tonganoth Kan., today for the catalog.—Advertisement

BY J. T. HUNTER

Confidence Is Proof of Worth

BY O. W. DEVINE

Hampshire Bargains for Pig Clubs, Emmett Byergo, the well known breeds of Hampshire hogs at Barnard Missouri h offering a few choice bred sows and bre gilts bred for May and June litters. The are priced right and would be splendid bar. gains for pig club orders. Mr. Byergo own

SHORTHORN CATTLE.

Genuine Herd Bulls by Master of the Dales and out of **Collynie Bred Cows**

Master of the Dales bulls are proving themselves spiendid breeding bulls and we can show you a few real bulls of first class herd heading character. They are a practical, husky and well grown lot that will appeal to breeders wanting bulls of real merit.

H.M. Hill, La Fontaine, Kan.

Shorthorn Dispersal (Private Sale) Herd Established 20 years.

Herd Established 20 years. 65 young cows with calves at fool. 55 two year old heifers sold open. 15 heifer calves. 75 young cows to calve in May and June. 20 coming two year old bulls. 15 coming yearling bulls. Everything in excellent breeding condition. Sold in lots to suit purchaser.

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Cedar Heights Specials Two pure Scotch bulls, 20 and 22 ments old, Some very choice young cows will calves at foot and bred back. Address, HARRY T. FORBES, TOPEKA, KANSU

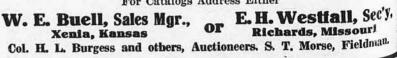
FOR SALE A nice by bulls from 11 to 20 months old. Salidar tion guaranteed. Prices right. Hill Bros., Smith Center, Smith Co., Kaus

PROSPECT PARK SHORTHORNS 1 red Shorthorn bull 29 months old; 1 uida roan and 4 red Shorthorn bulls 10 to 16 months of J. H. TAYLOR & SONS, CHAPMAN, Ed SCOTCH AND SCOTCH-TOPPED BULLS and females. Popular breeding. Wm. Woodson, Chapman, Kausas

TheInterstateShorthorn Breeders Association will sell at Fort Scott, Kansas, Thursday, May 20 40 HEAD OF CHOICE SHORTHORNS. Strong in the Blood of White Hall Sultan and Choice Goods. 28 bulls from 10 to 18 months old. Good individuals. In good flesh; big, husky, useful bulls. Several are richly bred.

A FEW EXTRA GOOD DOUBLE STANDARD POLLED BULLS.

12 good females from 1 to 3 yrs. old. Good foundation stock. Carrying a number of choice Scotch tops. Some nearly pure Scotch. For Catalogs Address Either



ne of the good herds of Hampshire hogs in issouri. The herd is headed by Byergo's andson of Hawk Eye Lad. Tip Thom by eneral Tipton is also used in the herd. He string a fine lot of well marked pixs, where the transformer of the few real prospects for right type of Hampshires. Byergo's and here to the few real prospects for right one of the few real prospects for right on the few real prospects for right of the few real prospects for right on the few real prospects for right in order to make room for the provide in order to make room for the right is suce and write your wants or go right hered. Everything sold on an abso-right here the breeding Hampshire hogs is the berd. Everything sold on an abso-right here here and he only sends out first a the berd. Everything sold on the second a the bas been breeding Hampshire hogs is the define got will get all the value a the want and you will get all the value a fine breed gilt or your money will be re-nied. -Advertisement.

BY S. T. MORSE

tegistered Hampshire hogs, good individ-s, popular strains, and at farmers prices what Charles Buchele of Cedarvale is retrising in this issue. Write him your nis,—Advertisement.

S. Alexander, Burlington, Kan., is ad-tising "Old Original Spotted Polands." He some bred sows ready to ship now, to your wants to Cedar Row Stock Farm, lington, Kan.—Advertisement.

the Deming Ranch. Oswego, Kansas, can nish you some mighty fine gilts, bred for y farrow. Also some extra good fall trs, and a few coming yearlings. Write O. Sheldon, Supt. Swine Dept., Deming nch, Oswego, Kan.—Advertisement.

"Genuine Herd Bulls." That is what H. "Genuine Herd Bulls." That is what H. Hill of La Fontaine, Kan., is advertising win the Kansas Farmer and Mail and eeze. Mr. Hill also has some genuine more Collynie blood in Mr. Hill's herd withan any herd in the country. The hite Hall Sultan Collynie cross, through eir decendants, is producing some extra bed cattle. Visit Mr. Hill's herd and see yourself what he is producing.—Adver-ement.

or good Shorthorn bulls and heifers at-the Interstate Shorthorn Breeders' as-ation sale at Ft. Scott. Kan., on May t. This offering of young cattle with life before them will be an especially place for the farmers of Southeastern sas and Southwestern Missouri to buy a up bull of serviceable age. It's almost how to breed for spring calves. These ag bulls and heifers have been well on, will be sold in good strong breeding lifon and should certainly prove prof-le for their new owners. For catalog is full information address W. E. Buell, m. Kan., and mention this paper.— ertisement.

Last Call, Drybread Herefords.

Last Call, Drybread Herefords. Wednesday May 12th Sam Drybread 11 100 head of Selected Herefords. he held in the new sale pavilion at idence. Kan. This offering will con-50 yearling helfers suitable for calf for good foundation stock. 35 cows ding age, half of them with calf at id balance well along in calf. Sev-dof good buils will be sold, some a good herd buil prospects. A few big farmers buils suitable for grade You will hardly have time now for be, but come to Independence May 12. are looking for good cattle you will disappointed.—Advertisement.

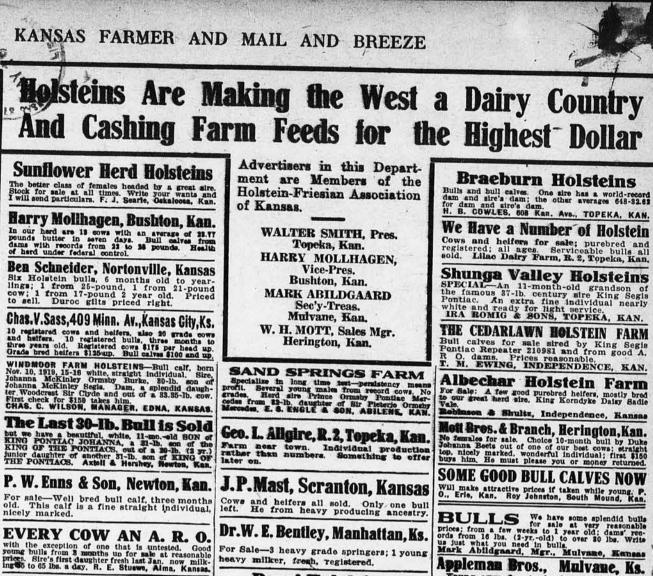
Polled Shorthorns at Fort Scott

ed Shorthorns at Fort Scott Howard, Hammond, Kansas, is twelve good bulls to the Inter-orthorn Sale to be held at Fort nears. May 20. These include both reans and most of them are they are sized by a good Scotch Horest Sultan. This bull is the orest Sultan 2d, the top of last elled Shorthorn sale at Chicago. Bired the top Polled Shorthorn at as City sale in March this year. and a bull that has everything a could ofer, with the exception consistment to the Interstate wertisement.

Shorihorns Sell at Ft. Scott. Thursday May 20th the Interstate in Breeders' association will sell 40 f selected cattle at Ft. Scott, Kan. atheated cattle at Ft. Scott, Kan. atheated cattle, all are good indi-ind in good flesh. The offering mulze 28 head of buils from 10 to 18 old. A few very fine Double Stan-old buils among them and about 12 males from 1 to 3 years old of the bread breeding and individuality. These attle individually and in breeding attle individually and in breeding the blood of White Hall Suitan, Good and other famous sires. They beer and milk Shorthorns, the kind needed on thousands of Eastern forms to replace the grades and inte that many farmers are feeding w. You likely need some of these by a purebred built and see how w will improve your herd. Get a for two and start a pure bred herd. Bertheorns will show a profit. Re-the date, May 20 at Ft. Scott, Kan., Westfall, Richards Mo.—Advertise-Shorthorns Sell at Ft. Scott.

BY GEORGE L. BORGESON

Anxiety Bred Bulls for Sale hiety Bred Bulls for Sale onstey, proprietor of the Fairview of Massena, Iowa, is well known I circles as a breeder of cattle and make good. His bulls are both as herd headers and as both short breaders and as been shipped as foundation ani-viral of the best herds in the test. His cattle are noted for bone, short bread head, ideal the dark color. The forty bulls the best herds and head, ideal the dark color. The forty bulls the boyer. Twenty of the bulls to boyer. The det end the diltion and priced to sell either carload lots. In addition to outstanding stock bulls, Mr. offering two extra good herd bulls, it will pay you to the with this herd which sends ke good kind,—Advertisement.



Ross' Holsteins Bull calves by Hamilton Prilly Sth whose dam made a record of 36.49 lbs. butter in 7 days, 106.6 lbs. in 30 days. Pictures suit on strukestor

Bull Calf Ready for Service out of 30-fb, sire Colantha 4th, Johanna breeding; dam 26.61 butter record. Quick sale, \$200

Geo. Lenhert, Abilene, Kansas

The dam of Vaderkamp Segis Pontiac, our herd sire, is the youngest cow in the world to have five rec-ords to average over 34 lbs. Young bulls, show in-dividuality, by this sire and from A. R. O. dams for sale. COLLINS FARM CO., SABETHA, KAN.

We always have something to sell. Just non some splendid young bulls, dams have milked St to 91 lbs, per day. Our young sire Gerben Ormsby Lad, a real bull. J. W. HAMM, Humboldt, Kan

JERSEY CATTLE.

R. R. WILSON, PARSONS, KANSAS REGISTERED JERSEY BULL CALVES,

HOLSTEIN CATTLE

20 HEAD

FOR HIGHLY BRED HOLSTEIN CALVES Heifers and bulls, 6 to 8 weeks old, beautifully marked, from heavy producing dams, \$25 each, Safe delivery guaranteed, Write Fornwood Farms, Wauwatosa, Wisconsin

GRADE HEIFERS

Nicely marked; from extra good dams at \$24 each on cars at Elkhorn, Wisconsin. "Holsteins of course," Sun Crest Farm, E. A. Paddock, Elkhorn, Wisconsin

HOLSTEIN AND GUERNSEY CALVES 1-321a pure, 7 weeks old, beautifully marked, \$25 each, rated for shipment anywhere. Bonds accepted. Edgewood Farms, Whitewater, Wisconsin

REGISTERED HOLSTEIN BULL 22 months old; priced \$100. Henry S. Voth, R. 2, Goessel, Kansas

sired by Oakland's Sultan 2nd, \$50. PERCY LILL, MT. HOPE, KANSAS.

Appleman Bros., Mulvanc, Ks. Toung cows due to freshen soon all sold. still have 5 or 5 young buils old enough for service out of A. R. cows and 80-pound buil. **Registered HOLSTEINS** Under Federal T. B. Supervision. One of the best some of King of the Pontincs, heads the herd. Our cows are the best for breeding, type and production. B. R. GOSNEY, MULVANE, KANSAS. Al. Howard, Mulvane, Ks. Bulls ready for service this fail. Write for descriptions and prices.

C. A. Branch, Marion, Kansas

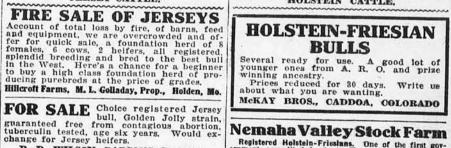
Wilkie & Swinehart, Derby, Kan. Bull calf, evenly marked, out of the great show bull Johanna Bonheur Champion 2nd. Price \$100 F. O. B.

Bull Calves by Our Herd Sire Dam has 28.65-784-in 7 days; has 1060 ib. sister, one 34, one 30 and 11 above 20. A few services for sale to approved cows. We have all A. R. O. Cows. GODDH'S STOCK FARM, C. L. GOODIN, PROPRIETOR. DERBY, KANSAS.

Sir Aaggie Korndyke Mead heads my herd. His nearest 5 dams av. nearly 1100 ibs. butter. Herd under feder-al supervision. Chas. P. High, Derby, Kan.

Two ChoiceA.R.O. Helfers for Sale due to freshen in two or three weeks. Also richly bred proven stre. FLOWERCREST FARM, MULVANE, KAN.

HOLSTEIN CATTLE.



Registered Holstein-Friesians. One of the first gov-ernment accredited herds in Kansas and one of the largest in the list. Young bulls for sale by Pontiao Beauty de Kol Segis 139642. His dam, as a 3 year old, made nearly 29 lbs. in 7 days and 114.63 lbs. butter and 2587.9 lbs. milk in one month. His grand-sites are King Segis and King of the Pontiacs. Address H. D. Burger, Proprietor, Seneca, Kansas

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For sale on account of feed shortage. 12 well marked cows from 2 to 8 years old; milking and some rebred to purebred bull; are large with well developed udders. Also 3 helfer calves. These oattle are heavy producers but I am short of milk producing feeds. They are bargains for the man who has the feed. One or all priced right. W. R. CROSBY, SHELDON, MISSOURI

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FIRCHARM ADSOLUTION recently purchased from J. M. Hackney of Arden. Farms Princess Dekots Beauty Girl Segis sired by King Segis Ponitiac Count and a full brother to Beauty Girl Ponitac Segis (20 world records). We have 15 buil caives for sale priced very reasonably. Address COUNTY FARM AGENT, EMPOBIA, KAN.

HOLSTEIN CALVES Extra choice, high-grade, beautifully marked calves, either sex. Write us for prices, W. C. KENYON & SONS, Holstein Stock Farms, Box 33, Elgin, III.

Western Holstein Farm are breeders of the correct thing in Holstein-Frieslan cattle. Young bulls of superior breeding for sale. Write for circular. HALL BROS., PROPS., Box 2, South Denver Station, Denver, Colo,



SPRING BARGAINS Young A. R. O. cows. 85 lbs. One from 44-lb. bolme fresh militing 59 to Segis (dam Johanna De Kol Van Beers). Herd t. b. free for 4 years. Cows good condition, mostly white, very typy. Write Victor F. Stuewe, Alma, Kan.

W. J. O'Brien, Tonganoxie, Kansas an experienced auctioneer, specializing in Holstein sales, and breeder of registered

J. A. Jamison & Sons, R. D. 2 Leavenworth, Kan.

Two very well marked registered bulls for

AYRSHIRE CATTLE.

Ayrshire Bulls Choice individuals, best of breeding and other information. Johnson & Matthews, Alta Vista, Kansas,

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PROUD MARSHALL X 14590-504053 This is my herd built for sale, August 1 delivery. Polled Shorthorn builts, 10 mo, old by him. Also on by Meadow Sultan. 2 Shorthorns, 13 mo. old. Ship ping points, Phillipsburg and Stockton. Address T. S. SHAW, GLADE, KANSAS

Howard Shorthorns May 20 I am consigning 12 good young bulls, mostly Polled, to the Interstate sale at Ft. Scott, Kan., May 20. Look them up if you want a good one. C. M. Howard, Hammond, Kan. POLLED SHORTHORN BULL For sale; dark red; 13 months old. Easter Brothers, Abilene, Kansas

WHEN WRITING OUR ADVERTISERS PLEASE MENTION THIS PAPER,

S. E. BOSS, E. 4, TOLA, KANSAS

sale, \$200. FITZGERALD, PETERSON & WEDDLE, Jamestown, Kansas

All bulls of serviceable age sold. A few calves sired by a grandson of King Segis and a few cows for sale.

Dr. L. E. Shay, Atchison, Kansas Clear Creek Holateins—Females all sold for the pres-en... Still have some real bargains in young bull calves from heavy producing A. R. O. cows. Buy your sire young. You can raise him as cheaply as we. For Sale: Registered Holstein yearling helfers and I royally bred buils from A. R. O. dams, and old enough for service.

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sale. Ready for light service. Priced right. C. A. Treff, Bonner Springs, Kan. HAMM HOLSTEINS I offer for sale my 30 pound herd bull, King Peter 18. He is nearly white, five years old and sold fully guaranteed. Write at once.

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