KANSAS FARMER AND MAIL & BREEZE

Volume 58

July 10, 1920

Number 28





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About Threaded Rubber Insulation

one side of the Still Better Willard the only storage Battery with Threaded Rubber Insulation.



Q. What is Threaded Rubber Insulation?

A. A storage battery insulating material made up of rubber pierced with thousands of tiny threads.

Q. How does it differ from other battery insulation?

A. Ordinary insulation is wood, cut in the form of thin sheets, and is neither as uniform nor as durable as Threaded Rubber Insulation.

Q. Why is insulation so important?

A. Because battery life depends largely on insulation and because any defect or weakness of insulation is quickly evidenced by buckled plates, short circuits, failure of the battery to hold its charge and

Q. What has this insulation to do with battery shipment?

A. The kind of insulation determines whether the battery must be kept wet, or can be shipped in "bone dry" condition. Wood insulation must never be allowed to dry out, hence makes necessary wet or partially wet shipment. Threaded Rubber Insulation the battery can be shipped absolutely "bone dry."

Q. Why is "bone dry" shipment and stocking preferable?

A. Because it is the only method by which chemical action in the battery can be entirely held up, so that the battery reaches the buyer in truly brand-new condition.

Q. Why does wood insulation need to be replaced?

A. Because wood insulation being soft, wears out more rapidly than any other part of the battery. It is also subject to cracking and checking, which, if allowed to go too far, seriously damages the battery.

Q. Why does Threaded Rubber Insulation outlast the battery?

A. Because the basis is hard rubber which resists wear and does not crack or check.

Q. How can I be sure my battery has Threaded Rubber Insulation?

A. Look for the red Thread-Rubber trade-mark. It can be found only on the Still Better Willard Battery.

Q. How many car and truck manufacturers have selected Threaded Rubber Insulation?

A. 136 in all. The complete list is printed at the right.

Willard Service

136 Manufacturers Using Threaded Rubber Insulation

Giant Glide Great We Hahn H C S Hurlburt Hawkeye Internatio (I H C) Kissel Koehler

Franklin Fulton Garford G M C

*For Export

Marmon Menomia Service Shelby Signal Singer Southern Standard 8 Standard Stanley Studebake Studebaker Stutz Sunbeam Tarkington Tiffin Titan Tow Motor Transport Traylor Ultimate Velie Vulcan

STORAGE 4 BATTERY

KANSAS FARMER AND MAIL & BREEZE

Atthe Carper Publisher

Vol. 58

July 10, 1920

No. 28

Cows and Wheat Build a Home

Dairying and Farming Make a Very Successful Combination in Western
Kansas for Chris Petersen of Ellis County

In THE wheat growing sections of Western Kansas, farms equipped with buildings and other facilities for handling milk cows are the exception rather than the rule, and yet it has been demonstrated over and over again that milking cows will prove a much surer means of bringing in a steady income year in and year out than exclusive wheat farming. In years of poor wheat crops milking cows proved to be the anchor to the windward on many a Western Kansas farm. Statistics of cream shipments from Western points show that in years of good wheat crops fewer cows are milked, but when the adverse years come milking cows and selling cream is resorted to as a means of paying the grocery bills and other living expenses. Chris Petersen of Ellis county did not wait

Chris Petersen of Ellis county did not wait for the years of crop failures to take up dairying as a side line to wheat farming. He came to this country from Denmark and the dairy farming instinct acquired in his native land was too strong to be killed, even if he did cast his lot among the wheat farmers from Russia who settled in that county. Mr. Petersen came to Ellis county 33 years ago and began life in a sod house. He now has a comfortable home, a good, warm barn for his cows and horses, owns two quarters of land and rents a third quarter. These improvements are strikingly conspicuous in a neighborhood where most of the farms are very meagerly equipped almost in every way.

A Good Type of Barn

The first thing noted in driving up to the Petersen farm is the barn. Exclusive wheat farmers do not build barns and sheds. Mr. Petersen's barn is 86 feet by 54, the long way extending north and south. It consists of a central part 20 feet wide, having a loft above for storing hay and feed, flanked on either side by a low part with shed roof. The hay and rough feed is taken in thru an end door by a hayfork running on a track the full length of the loft. On the ground floor feed bins are located at the north end of the central part, reached by doors from the alley in front of the At the south end is a small room tightly inclosed, used for a milk room. This is equipped with a separator and other facilities for handling milk and opens into the cow stable. In the low part at the south end is a big box tall for the calves, opening on a yard outside. The rest of the low part on the east side is taken by the cow stalls. They are equipped with modern stanchions. The floor is cement, having a gutter behind the cows which drains to the south. In front of the cows is a continuous cement manger which drains to the north. The cows can be watered in this when the weather is cold and stormy. Mr. Petersen explained that this was an old country custom but was not so necessary in Kansas. This part of the barn is provided with plenty of windows, as will be noted by referring to the cut. An elevated tank at the south end kept filled by a windmill located at the house supplies the water to the tanks outside and to the trough. The feed trough can be cleaned easily by turning in the water and scrubbing it with a broom.

Mr. Petersen pointed out that this type of barn is far more rigid and less likely to be damaged by the wind than the more modern, selfsupporting roof type of barn and for that reason he believes is better adapted to that part of the

country. He believes in making his farm buildings warm. The walls of the cow stable part of the barn are double-boarded, matched lumber being used on the outside. In the central part on the ground floor he keeps a feed cutter and a gasoline engine to run it. All the bound fodder fed is run thru this cutter. This reduces waste, makes it much more convenient to feed in the mangers, and the rejected portions make good bedding. On the west side of the barn are the stalls where the horses are kept.

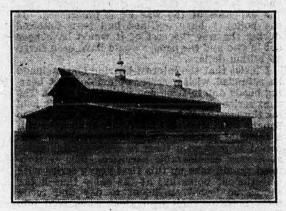
By G. C. Wheeler



Cows and Wheat Built This Comfortable Home.

Mr. Petersen's milking herd consists of grade Red Polled cows. He has bred along this line because cows of this breed are good milkers and have good beefing qualities as well. At the present time they are making butter on the farm, turning out 40 or 50 pounds a week, selling it in Hays. This makes considerable work in the home, but they thought that it increased the returns sufficiently to make it worth while.

Convenient equipment for handling wheat was another feature of this farm, for this is the cash crop and all the other farm work must hinge around the wheat. The wheat from the thresher is handled direct from the wagon by a portable elevator operated by a gasoline engine. The grain can be spouted to bins on either



Every Farm Needs a Good Well Equipped Barn.

side of the granary. On many of the exclusive wheat farms of this section there is little or no provision for storing wheat on the farm. This necessitates marketing direct from the thresher and as a result the crop cannot be marketed to the best advantage. Mr. Petersen has wisely protected himself against this handicap of forced marketing.

Some farmers wait until they have made a big stake before attempting to provide for the comfort and well-being of the family. It is interesting to note how this home has been added to, a feature at a time. The kitchen is a large room, occupying the spot where the original sod house stood. It was the first part of the permanent home. As the family grew, an addition

of two rooms was built. This part has been rearranged and now is one big room used for a living room and dining room. It has a large screened-in porch to the east en which the family take their meals in hot weather. Next came the two-story part. It might seem difficult to have a bath room and complete water system with hot and cold running water in a home built as this one was, but this has been accomplished. A range boiler has been attached to the kitchen range, a storage tank in the upstairs part supplying the water. The kitchen has a sink, and a bathroom with complete equipment has been provided on the ground floor. Mr. Petersen explained that he considered it very important to fix up the home so as to make it as pleasant as possible for the family. "If you don't," he said, "they will pull out and leave as they grow up." His oldest son, Nois, who is now of age, seems well content to remain on the farm. He drove the car up town in response to my telephone call and as we returned took his father to the school house, where the annual school meeting was to be held that afternoon. The next day Mr. Petersen and Nels drove to the Hays Experiment Station Farm for the Cattlemen's Roundup meeting. The young man had taken a course in an automobile and tractor instruction school and was the chauffeur and engine man of the family. He has largely taken over the management of the field work in general on his father's farm.

How the Milking is Done

Mr. Petersen is the dairyman and with the help of the smaller children milks the cows, separates the milk and cools the cream, feeds the calves and does the many little chores incident to transforming farm-grown feed into the highly finished product, butter. This feature of the farm practice virtually consists in taking low-grade raw material, having little or no market value, and by putting into it the skilled labor of the trained dairyman turning out the manufactured product having a high market value. It is selling skill and ability instead of selling raw material and for that reason is not so dependent upon seasonal conditions as growing wheat for market.

as growing wheat for market.

The building in the cut back of the windmill is the laundry. It is double-boarded like the cow barn. A range to heat water stands in one end. The washing machine is operated by a gasoline engine and a line shaft carries pulleys which operate emery wheels and other small machinery. A pumping jack can be used with the engine when the wind does not blow enough to operate the windmill. This pumping plant supplies water to the barn as well as the house and laundry. These improvements and conveniences have all been added one by one as the money was available.

A well built garage, also double-boarded, large enough for four cars is the last improvement. Mr. Petersen said he might want to buy a truck some day and thought he would build for the future. He already has a tractor.

for the future. He already has a tractor.

Thrift and industry, skillfully combining the growing of wheat with milking cows, not spasmodically but as a carefully worked out program are the things which have made this farm success possible. Adding the new improvements one by one instead of trying to get along until a modern home and modern farm buildings can

be built all at one time is a practice which should commend itself to many. Mr. Petersen believes that by following this plan the family is more contented on the farm and he feels that it is not right to deprive the wife and children of the ordinary comforts of life if it is at all possible to have them. He is looking forward to other improvements as soon as they can afford them. Too often when it is possible to have these comforts and conveniences there is probably no one left to enjoy them.



Thrift and Industry, Skillfully Combining the Growing of Wheat with Dairying Made Farming a Success for Chris Petersen of Ellis County.

DEPARTMENT EDITORS

stered as second-class matter February 16, 1996, he postoffice at Topeka, Kansas, under act of gress of March 3, 1879.

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Kansas Farmer and Mail and Breeze

ember Agricultural Publishers Association.

Published Weekly at Eighth and Jackson Streets, Topeka, Kanssa.

ARTHUR CAPPER, Publisher

T. A. MeNEAL, Editor F. B. NICHOLS, Managing Editor
JOHN W. WILKINSON and G. C. WHEELEH, Associate Editors

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DEPARTMENT EDITORS

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ernal human use.

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this issue is reliable, and should any subscriber surfer financial loss thru fraudulent dealing resulting
from such advertising, we will make good such lose.
We make this guaranty with the provisions that the
transaction take place within one month from the
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that in writing the advertiser you state: "I saw your
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Passing Comment—By T. A. McNeal

Y THE time this moral and agricultural guide is circulated among its readers the Democratic National convention will have ended its labors, nominated a ticket and put out a platform. In November either the men nominated at Chicago will be elected or those nominated at San Francisco. There will be another ticket, maybe two or three other tickets in the field but none of them will stand any possible show of winning. What annoys me about the whole situation is that in my humble opinion neither of the great political parties will get down to the root of things and do the things I think they ought to do. Now I will frankly admit that my judgment may be at fault. It may be that the things I think ought to be done ought not to be done, but still as one American citizen who has a hundred millionth interest in this, the greatest Government the world ever has known, I have a right to my own opinion.

I have a firm conviction that if the right course had been pursued during the recent war there would not only be no National bonded debt at this time, but that the cost of the war would not have been more than one-half of what it was. I also have a very firm conviction that there would be far less of discontent and bitterness in the country than there is at present; that there would be comparatively little complaint about the high cost of living and that the country would now be entering upon an era of unprecedented prosperity instead of sailing on a sea of doubt, threatened with storms and disaster.

Our Constitution provides that there shall be neither slavery nor involuntary servitude except as a punishment for crime of which the person so punished shall have been first duly convicted. The Government, however, has the inherent right in case of war to suspend the courts if necessary and compel every citizen to give up his or her ordinary business and enter the service of the Government, not on terms of the citizen's choosing, but on such terms as the Govern-ment may prescribe. In addition the Government claims and exercises the right to seize so much of the property of the citizen as may be necessary to use in the defense of the Govern-

It might seem at first glance that the first quoted provision of the Constitution conflicted with the power assumed by the Government in time of war. It does not, however, because it is recognized that the Government, like an individual, has an inherent right to preserve its life and may use whatever means may be necessary for that purpose.

However, if the Government exercises this extraordinary power over the citizens it should be used impartially. It should apply as far as possible to all citizens alike.

When the United States entered the war it was decided to exercise at once the extreme power of the Government and raise an army by conscription. Under the general draft, a certain class of citizens, men between certain ages. were subjected to involuntary servitude. They were compelled willingly or unwillingly to leave their occupations, go to training camps, put on the military uniform and subject themselves to the harsh discipline, the discomforts and dan-gers of military life. They were not permitted to name the wages they were to receive for their services, or to dictate the conditions under which they should serve. They did not even have a choice as to what they should eat or what they

They were told that they would be clothed and fed according to the standard set by the military authorities and that for their services when in active duty they would receive \$1.10 a day in addition to the food and clothing provided by the Government. If they were men of families certain provision was made by the Government for the partial support of the family and they were compelled out of the meager wage provided to contribute so much a month to the support of their families.

Now I hold that as a war measure this action on the part of the Government was justifled,

but it seems also entirely clear to me that the same rule should have been applied to other citizens. They and their wealth should have been conscripted and without giving them any interest bearing bonds.

When the Nation entered the war a sweeping Government order should have been issued forbidding the raising of prices on any commodity necessary for the living of the people or for the manufacture of ships, cantonments or muni-tions, during the continuance of the war. That would immediately have cut off excess profits. There would have been no howling after the war about profiteering and there would have been no discussion about what should be done with the excess profits tax law, because there would have been no excess profits.

Now I have never talked with a man who did not acknowledge that the program I have outlined would have been just. But did the leaders of either of the great political parties propose anything of the sort? So far as I know they did not and for that reason neither has any right to criticise the other. Nothing has tended so much to create discontent and bitterness as the discrimination practiced during the war. It is utterly impossible to defend a system which calls on the men of one class to give up everything and risk their lives while others are permitted to grow rich on account of the op-portunities opened up by abnormal demands of the Government.

It is now too late to rectify entirely the wrong that was done during the war but so far as it is possible it ought to be righted. As we should not have issued any interest bearing bonds in the beginning so now we should make arrangement to pay the bonds that have been issued as soon as possible. The wealth of the country soon as possible. The wealth of the country should be taxed now to pay these bonds as it should have been taxed during the war to pay the expenses of the war as it progressed. If the policy I have outlined had been followed during the war the cost of it would have been not in two and the record would have been cut in two and the people would have been saved

15 billion dollars. I insist that the interest bearing bonds should be refunded with a series of non-interest bear-ing bonds due in from one year to 10 years. The first series should embrace the small bonds held first series should embrace the small bonds held for the most part by people of small means who bought what they could not afford to buy out of a spirit of patriotism and who have been com-pelled to part with them in a good many cases at a very considerable sacrifice. The Govern-ment should take up this first year's series with Government notes but at the same time a tax should be levied sufficient to pay and retire these notes or their equivalent when paid into the Treasury for taxes. the Treasury for taxes.

There would be under this plan no inflation of the currency because each year there would be retired as many of these Government notes as were issued. The holders of the other bonds could be permitted to use them as preferred security in borrowing money if they so desired. My friend Pete Goebel, for whose financial judgment I have great respect, declares that my plan is utterly impracticable, but so far has not demonstrated why it is so. My opinion is that Pete in this particular case is talking thru his

The Hoop Snake

ONE OF OUR subscribers, Mrs. L. S. Mc-Kenzie of Black Fork, Ark., writes me that I am talking thru my hat, so to speak, concerning the hoop snake. She says: "You state that there is no such thing as a hoop snake. There may not be any now but about 50 years ago my two brothers and sister and myself, all now living, were chased out of a wild strawberry patch near Morristown, Cass county, Mo., by a hoop snake. It came very near us and we all saw it only too well. So we ran home and told mother and she would never let us go there any more. The memory of that scare is with me yet."

Webster's unabridged dictionary says that there is such a reptile as the hoop snake; also

that it is a harmless snake and got its name from a mistaken impression that it took, its tail in its mouth and rolled like a hoop. It is found in some of the Southern states. The scientific name of this snake, according to Webster, is Abaster Erythrogrammus, which seems to me to be some name.

So I stand corrected to the extent that I must admit there is a snake called the hoop snake but still must be shown that it takes its tail in its mouth and rolls like a hoop.

Edmonds' Ten Commandments

EPRESENTATIVE Edmonds, of Pennsyl-Vania, not long ago promulgated what he called the "Ten Commandments of Americanism." Here they are:

1. Thou shalt buy only American products. This develops the home market, encourages manufacturing and provides employment.

2. Thou shalt import only necessary raw ma-

terials, using American materials whenever possible. This encourages the building up of home facilities, prevents dependence and provides employment.

3. Thou shalt produce on farm and in factory to the limit of capacity. This increases home wealth and reduces cost of living expenses.

4. Thou shalt co-operate and conserve. This will automatically increase production and re-

duce costs.

5. Thou shalt develop export markets and facilities. This reduces overhead costs, stabilizes the home market and steadies employ-

6. Thou shalt make quality of first consider-tion. This will promote confidence at home and abroad in American products.

7. Thou shalt use American facilities whenpossible, ship by American ships and use American insurance and banks.

8. Thou shalt develop American resources to the limit. The war has disclosed many new resources in the field of minerals and manu-

facture. Protect and utilize them.
9. Thou shalt be fair to labor. Without fairness there can be nothing but unrest, with its

consequent loss.

10. Thou shalt be fair to capital. Without fair treatment and understanding of capital no development can come and the consequent stag-nation will be unfortunate to all.

E. Z. Butcher of Solomon, Kan., who is a student of economics and a single-taxer, takes exception to at least a part of these so-called commandments. "In the same paper in which I read the Decalogue," says Mr. Butcher, "I read of an American who had imported a cargo of fat lambs from New Zealand and sold them to counteract the high cost of living. Look on your breakfast table and notice the products from outside the United States. What would be the price of sugar if we did not have Cuba to help us? We only produce a small supply in proportion to our consumption. There also is your coffee, tea, and many other things, for which we are dependent on other countries."

Referring to Representative Edmonds's commandment that "Thou shalt be fair to capital," Mr. Butcher says: "There is not and never was any capital in the true sense of the word, except what was produced by labor, all the capital destroyed by the late war could be replaced in time. It is only from the earth that capital is produced. All that labor desires is a free opportunity and it will provide its own employment and produce all the world needs. future that looms up so dark calls for all the good there is in man to face and solve the problems with justice and good will, free from class distinctions and class struggles, hoping and doing for the right, that our economic surroundings may be so altered that there will be a new

Every right thinking man and woman will join with Mr. Butcher in this hope even if they differ from him concerning the way in which it can be brought about. To say that if labor is given a free opportunity it will provide its own employment and produce all the world needs, may be entirely clear to Mr. Butcher, but it seems to be rather vague and meaning-

to me.

What does he mean by labor? He declares himself against class distinctions, but apparently draws here a class distinction. I assume that he would abolish all private ownership of land, as he holds that land is the basis of all capital. But there would still be need for the organization of the stored product of labor which is capital. Mr. Butcher is of course quite right in saying that the first of the so-called American commandments is not practicable. We all know that we must buy a great many things not produced in America.

Furthermore if we refuse to buy the products of other countries we cannot sell to them and of other countries we cannot sell to them and the talk about promoting confidence in American products abroad is foolishness. If we are going to confine our trading to the United States then there is no use to build American ships. The future prosperity of the American people does not lie in provincialism and isolation but in world-wide trade.

Finally I will agree that the solving of the problems that confront us call for the best thought and the most honest endeavor of the people of this and other countries, but espec-

people of this and other countries, but especially of the people of the United States.

More Questions Asked

More Questions Asked

In the Kansas Farmer and Mail and Breeze for June 12 you discuss my two questions regarding the tax amendment at some length, and I feel thereby encouraged to ask a few more. Before I do, however, I should probably first answer your question as to what I would do if I had money invested in farm mortgages and a law were passed compelling me to pay taxes on the same. Why, Mr. McNeal, every assessor during the last 30 or 40 years has given me the impression that such a law has been on our statute books all this time! So when this question you ask, recently became a real, instead of a hypothetical one, I answered it much in the way you opine, for the simple reason that I could not compete with Mr. Tax Dodger for farm mortgages, while his competition did not make itself felt in municipal and Government bonds. Had he been forced to pay taxes on his mortgages by some such method as I suggested, instead of letting him "get by" if he is willing to perjure himself, he would in all probability have beat me to the bonds, and I might have been able to help some deserving chap to become the owner of a farm without financially injuring myself.

But here are my questions:

First: Why taxebank deposits ½ per cent, when other property, according to your statement, pays 3 per cent, or in the case of a man burdened with a mortgage for half the value of his farm, even 6 per cent?

Second: How many more bank deposits would you get on the tax roll with your ½ per cent tax on same, than were there in 1919, when there were 29 per cent according to your figures? If you tax them ½ per cent, instead of 29 per cent under the present constitution. Am I right or not?

Third: Suppose the case, this tax on bank deposits were actually put on (which if I undergosits were actually put on (which if I undergosite were actually put on (which if I unde

cent under the present constitution. Am I right or not?

Third: Suppose the case, this tax on bank deposits were actually put on (which if I understand it right, could, but would not necessarily have to, be done under the amendment), would not the banks pass it on to the borrower by the increased-rate-of-interest route?

Fourth: You say my plan of taxing mortgages would immediately have this effect. Granted: tho in this case for the purpose of this argument only. Would not the net result to the borrower be just the same, whether he paid this 3 percent in increased interest, or whether he pays it now in double taxation on land he does not really own?

Fifth: You have discussed and criticised one of the two solutions I offered to do away with double taxation, but have not touched upon the other, nor, so far as I am able to see, shed any light upon what the amendment will do in this respect, unless this contained in the quotation from Solomon of old. Or have I overlooked something in your answer?

I should be glad indeed to have you answer a number of other questions on this subject in your valuable paper, but, realizing that it will be necessary to print the questions as well as the answers, and that you may not wish to strant the necessary space, I will confine myself to those above.

J. H. CLAASSEN.

I will try to answer Mr. Claassen's questions as well as I am able. I wish to say frankly that the only justification for much of the dassification I have suggested, is the hard-and somewhat ugly fact that experience has shown hat property which is easily concealed always has escaped its just share of taxation.

For a long time I was opposed to the classilication of property along the lines I have sugdested because it seemed to me inequitable that property such as notes, bonds and money should be taxed at a less rate than property which canbe concealed. Mr. Claassen states a fact exact, the notes secured by the mortgages, are taxable under the law at their full value. Not mly that, but the law seems to provide rather severe penalties for trying to evade taxation on this kind of property, but as Mr. Claassen knows in spite of laws and penalties more than two-thirds of that kind of property has managed to escape taxation. I have, therefore, been re-metantly compelled to accept the view that it better to get this property on the tax rolls possible at even an inadequate rate of taxation than to let it escape taxation entirely. Mr. Claassen asks why bank deposits should be taxed at the rate of say ½ of 1 per cent

when other property is taxed at the rate of nearly 3 per cent. I think I already have answered that. We know that more than 70 per cent of bank deposits do escape taxation and if the law were amended so as to compel the banks to disclose the names of the depositors and the amount of deposits carried by each, we know that the result would be a withdrawal of a very large per cent of the deposits before March 1. In my opinion no law could be framed which would catch these tax dedgers. It is a condition not a theory which dodgers. It is a condition, not a theory, which confronts us.

"But," asks Mr. Claassen, "how many more bank deposits would you get on the tax roll with your ½ per cent tax on same than were there in 1919?" Banks are required to make a statement of the aggregate of their deposits but not the names of individual depositors or the amount belowing to such The banks would the amount belonging to each. The banks would therefore pay the tax on whatever the aggregate of deposits might be.

Mr. Claassen then asks, "Would not the banks pass the tax to the borrower by the increased rate of interest route?" Undoubtedly the banks would undertake to do that very thing but I believe this evil might be remedied by a stringent interest law fixing the contract rate of interest at a lower rate than banks are permitted to charge at present. I presume some banks manage to evade our usury laws but it is not the rule, and with a vigilant banking department there ought to be almost no evasion of this lind, because it is entirely possible to discover the evasion.

In Mr. Claussen's previous letter he suggested as a remedy for present inequalities in taxation, the listing of all property at its full intrinsic value. That is, of course, what our law requires now, but as I have said, experience has shown that property which is easily concealed will manage to escape taxation. It always has done so and I presume it always will do so.

I note from Mr. Claassen's letterhead that he has named his farm "The Golden Rule Farm." I have no doubt he is trying to live up to that theory. If everybody would do so all the prob-lems of taxation, Government and society would be solved. There would be no need of consti-tutions or laws providing punishment for crimes or imposing penalties for violations of contracts, or imposing penalties for violations of contracts, but unfortunately human selfishness has not yet been supplanted by the Golden Rule. I am therefore in favor of adapting laws to conditions as they are, not as I would like them to be. This is the reason why I favor the proposed amendment to the constitution. That it will bring about a perfectly equitable system of taxation I do not believe. All I hope for is that it will lay the foundation for a more equitable system than we have at present. system than we have at present.

Rebuked by a Lumber Journal

HE EDITOR of the Southern Lumberman gives me a trade-paper dressing down in his issue of June 5. He is virtuously indignant that a person from "a state without a sawmill," should presume to have any ideas about lumber, much less to accuse "the second greatest industry in the nation" —and he seems to think the most sacred—of being in a condition "fundamentally bad."

My belief that the mill owners and the jobbers have been running up prices unconscionably an opinion held by all the retail lumber dealers with whom I have been corresponding for months—the Lumberman's editor says indicates my ignorance and lack of grasp of the general subject. He doesn't say the lumber dealers are ignorant about the "second greatest industry" of which they are a part. But of course, they must be or they could not hold this opinion.

The dealers, without doubt, are willing to admit the mill men do have a better grasp of the subject, for they have proved it the last three years by grasping everything in sight that looked like increased profit, only being surpassed in grasp by the cotton mills and the sugar industry.

flag-waving. American-loving down here," Mr. Clyde Doss writes me Monticello, Ark. "This firm pays \$8 a from Monticello, Ark. thousand for logs and sells the lumber at \$100 or more a thousand feet, and then has the gall to kick on its excess profit taxes."

Mr. Doss has been selling logs to the second greatest industry, consequently isn't as ignorant about it as some of us who have not had his

opportunity for close personal observation.
Federal Judge John E. McCall of Tennessee
also has been getting some "close up" information lately. He finds that the 333 members of the American Hardwood Lumberman's association systematically increased the price of hard-

wood lumber from 150 to 250 per cent in 12 months. A private letter from a manufacturer in the same locality informs me that it was 500

and more per cent on some of the items.

But what strikes the editor of the Southern Lumberman as the most glaring display of lack of knowledge on my part is, as he expresses it, that any "self-constituted guardian of the people's rights" should have the gall to suggest (or to hope) that some "well-judged and constructive legislation leading up to a complete program," and reforestation, could straighten out those fundamentally bad conditions in the lumber industry. lumber industry.

Altho I don't quite think this was the meaning he intended to convey, I am bound to admit the force of the meaning he does convey. And when I think how the big profiteers in the lumber industry have unmercifully sandbagged the Government and the people these last few years, any suggestion as safe, sane and reasonable as this one seems too gentle, mild and forbearing. However, I intended it to apply to the industry as a whole and not to the pirates who during the last year or two have exploited lum-ber up to and beyond the absorption price-limit, as their present price hedging now confesses.

as their present price needing now comesses. They should go to jail.

Personally, and just between us, I think Editor Horn's use of the expression, "self-constituted guardian of the people's rights," ill-chosen. An official sent to Washington by a majority vote of 131,911 of his fellow citizens, has a right to consider himself fully constituted, which is the way. I feel about it.

which is the way I feel about it.

However, I am far from finding fault with Editor Horn. He has his job. It is his business to defend and uphold the lumber industry and its practices, both good and bad, against all comers, and just now that is trouble enough for one man. The editor of a lumber trade-paper must get advertising from the mills and jobbers, and subscribers among the lumber dealers. Doubtless Editor Horn has enough worries without having anybody in Washington suggesting that the lumber industry is controlled by an organization of cold-blooded, plausible and gen-

tlemanly cut-throats.

To back up his case, the lumber editor cleverly quotes a few passages from Secretary. Meredith's letter transmitting the report of the Forest Service on timber depletion which the Senate asked for at my request several months ago, and just as cleverly fails to quote certain other passages. One he does quote is to the effect that lack of freight cars is one of the prime factors of high prices for lumber.

prime factors of high prices for lumber. In his June 5 issue he makes the most of this alibi. Eighteen days later, June 23, with the car shortage shorter than ever, the Associated Press announced to the country a general reduction in lumber prices ranging from \$5 to \$15 a thousand. This rather weakens the car shortage theory as a fixer of profiteer values.

But there is a sensible and a true reason for

But there is a sensible and a true reason for the downward trend, and the Southern Lumberman gives it to those who can read between the lines, in its leading article on "market conditions" in the same issue.

According to the Lumberman's market review, it seems that "the complex situation in the commercial world appears to have brought about a general curtailment of buying, but"—the Lum-berman hastily adds—"lumber has fared no worse than other commodities!" Further on we read that business in Southern pine circles is distressingly light. (And in this country there are 10 million people living in tents and crowded rooms.) "Failure of building to reach the anticipated volume," says the paper, "is given as the reason for the modest requirements of the retail trade, and many of the dealers, in view of the uncertain outlook, are more than ever disposed to hold purchases down to the

barest necessities."

Wise dealers. They are acting like prudent business men. Now if the consumer will show out of the market, he will get more and more price concessions from on high, just as the people did this spring from the clothing princes when they refused longer to buy clothing at grossly inflated values.

The big lumber interests are even now testing out the market to discover just how much they will have to take off to stimulate buying, altho history cannot show a time when lumber was

But conversation is not going to get us anywhere. I am convinced the facts revealed by the Forest Service report will put force behind the bill I have introduced to prevent forest devastation and waste of the nation's timber reserves. As for putting a permanent end to gross profiteering, a new governmental policy is demanded to deal with a profit system which has become a system of robbery by privilege. The people see it clearly. And that is the main thing. For it means the rest will comeapper. that already it is on

the way.

Washington, D. C.

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Baby Tractors Prove Worth

Small Power Machines are Economical for Gardeners and Will Lighten Many Tasks and Save Much Valuable Time

By Charles Edgars

OME OVER here, Bill, and look at the cunning little toy." A bronzed young farmer so halled his friend at the tractor show last winter as he walked slowly around a little two-wheeled machine that stood scarcely as high as his waist. The self these little machines must that stood scarcely as high as his waist. The description of what has that stood scarcely as high as his waist.

It was his first inspection of what has loosely been termed the "garden tractor," and compared with the standard tractors the baby of the family did seem to be in reality a mere toy.

The little tractor in its four short years of existence has proved its worth, because Today there are no less than

years of existence has proved its worth, however. Today there are no less than 14 companies manufacturing the so-called garden type, and the production for this year is said to be more than 35,000 machines. Mechanically they adhere much more closely to a standard type than do the large machines, practically all being two-wheeled models with plow-handle control. While they are reasonably efficient mechanically, their work is such that utility is to be considered more than mechanical efficonsidered more than mechanical effi-ciency, and their utility apparently has

been proved beyond all doubt.
When considering the baby tractors, it should always be borne in mind that they are built for certain fields of work and that they should not be compared with a standard size tractor. In the agriculture of the Midwest they the agriculture of the Midwest they cannot take the place of the big machine in any sense whatsoever. They can supplant one horse in most field work which one horse does; can sup-plement some of the work of their big brothers and perform a lot of chores around the farm house and barn. Before going into the duties the baby



Now are Manufactured for the Use of Truck Growers, They Make the Cultivation of Large Areas an Easy Matter.

and non-plowing. Of the 14 machines now on the market only two or three are of the non-plowing type. They weigh 250 pounds or less. The plowing types weigh from about 535 pounds to 1,100 pounds and are capable of draw-

and non-plowing. Of the 14 machines for the largest. This is the drawbar

smallest machines have only 17-inch wheels, while the largest wheel is ordinarily only about 34 inches.

Most baby tractors have some type of castor wheel in the rear, which is removable when implements are used. This gives the machine a good balance without their aid. Practically all makes are guided and controlled with a plow-handle arrangement, which is modified in the minor details, but conforms largely to a standard type. Generally speaking, the operator walks but many of the larger machines are equipped so that the operator can ride while plowing, and mowing the lawn.

On some makes of these small trac-tors the width of the tread is variable, so that it may be adjusted for different kinds of cultivation. The average clearance is 10¼ inches, but some of the larger types have a clearance of 13 inches, so that they may be used activity the row in cultivating some

astride the row in cultivating some crops until the plants are quite large. The average speed under load is 2½ miles an hour and the average fuel consumption is about 2 gallons for 10 hours' work. Of course, the larger 2-cylinder machines probably will use more. Compared with a horse it has been found that an average horsepower been found that an average horsepower can be developed for about a half of the cost of the same work with horse flesh. The cost of the baby tractor varies from about \$200 to \$450. Having outlined the principal me-

chanical features of the small tractors let's see what they can do; what is this field in which they are "in a class

A Crop of Real Merit

The Acreage of Sweet Clover is Increasing Rapidly on Kansas Farms; it Pays to Use Good Production Methods

By R. Kenney

ANY MEN have tried Sweet clover for a year or two and have given it up. They had been led to believe it could be handled by ways and means that apply to the alfalfa or Red clover crop. apply to the alfalfa or Red clover crop. This cannot be done in all cases. A thoro understanding of the proper utilization of the crop creates friends, while the lack of such understanding has led to many disappointments.

has led to many disappointments.

Sweet clover is rapidly becoming so important a crop in Kansas agriculture that we cannot learn, too early, what not to do if we would get satisfactory returns in the form of pasture, hay or seed crops. The least exasperating of all troubles in growing Sweet clover is a failure to get a stand. We simply take it as a bit of hard luck and resolve to try again, wondering meansolve to try again, wondering mean-while what was wrong. Such failures are, more frequently than we think, the result of our carelessness.

Poor Germination Explained

A lot of Sweet clover seed that is apparently as fine as can be produced may contain 98 per cent of hard seeds. These have seed coats that will not absorb water. They are worthless for planting unless run thru a scarifying machine which grinds and cracks the impervious layer. The high percentage of such seed in what was sown has caused many of the failures. A few years ago it was believed that these seeds were cracked by a winter's freezing and thawing and that the most of them would grow.

Experiments at the Kansas State Agricultural college on several lots of Sweet clover containing a high percentage of such hard seeds have shown that the winter's freezing and thawing have no such effect. Part of this seed was buried in the surface layer of soil in an open field all winter and there were as many hard seeds left in the spring as in the fall. Part of the seed was soaked in moist blotters and frozen and thawed 60 times in suc-

capable of growing. The ground in an cent and a poor stand will result. open field does not freeze and thaw The beginner in growing Sweet nearly so often as this in an average winter. It must be remembered that, if 1 pound of the 15 or 20 usually sown is not hard seed but is contained. is not hard seed but is capable of growing, the 200,000 seeds in 1 pound when

spread over an acre will give about five seeds to the square foot. This is enough to give the good stands obtained by men who say their experience is that winter freezing makes more seeds grow. These facts must be taken as an argument against not be taken as an argument against

cession. Not a single seed was made quently may germinate less than 15 per

clover should plan to use the first summer's crop, from spring seeding, for hay. The second year's growth is too oarse for the best quality of hay and there is too much danger of killing the stand by mowing it. When cutting hay from the first season's growth only one cutting should be made in the season. This should be about frost time in the fall, if one desires a maximum hay crop and wishes at the same time to grow as strong roots as possible for the next year's start. From 1 to winter and early spring seeding.

Seed threshed in an ordinary clover or alfalfa huller is subjected to more or less scarifying in the machine, and careful tests show that more of such seed will grow than of seed threshed in a grain thresher. A Kansas farmer of 18 years' experience in growing Sweet clover and harvesting seed states that in his opinion machine threshed seed that germinates promptly above 55 per cent is better than the average. This must be considered in sowing seed from sections that do not have hullers. Hand threshed or flailed seed fre
seed threshed in an ordinary clover of hand an acre is a normal yield. Such fall cut hay usually will be as strong into 3 tons of hay an acre is a normal yield. Such fall cut hay usually will be as growth in early and fine stemmed as a first crop the seed crop then is clear profit.

Such fall cut hay usually will be as such as formed as a first crop agood season for curing and it can be falfalfa. Mid-September usually is a good season for curing and it can be obtained by pasturing into June, and the seed crop then is clear profit.

Proper Time to Cut

When the average man thinks of harvesting a Sweet clover seed crop, he pictures a field of coarse heavy stuff 6 to 8 feet high. Such a growth is ruinous to the machine used to cut it. Furthermore, there is so much seed shattered in handling it that a 10-bushels when finally threshed and sacked, Such a crop, unless an accidental pick up, is the result of poor and threshed or flailed seed fre
Altho many men are successful in mowing two crops of hay during the management.

The crop that comes on after spring

second year's growth, this is the most dangerous operation in handling the crop. The beginner almost invariably kills it then. Some men have moved as high as 10 or 12 inches and still it died. No one can say what is the safe height of stubble for the thickness of stand and vigor of plants vary greatly. For these reasons it is safest to pasture. off the second year's growth entirely or else pasture until about the middle of June and then let the crop grow up for seed. A 2-foot or higher growth may be pastured down successfully with a full stand remaining, while mowing the same growth would in many cases kill 95 per cent of it. profitable season's return on the land can be obtained by pasturing into June, and the seed crop then is clear profit.

pasturing will be short enough to be harvested readily with a grain binder. It is finer stemmed. The fine stems are full of seed from top to bottom and will as readily give a maximum yield as will the unpastured crop. This fine stemmed growth is handled easily and is a far more desirable method of producing seed. Even with it one can easily lose most of the seed from shate tering unless a shallow box is slung beneath the end of the platform can vas, and another beneath the packers and the bundle carrier, to catch such These boxes must be emptied frequently for in many cases the handle three-fourths of the seed crop



Good Results are Obtained the Second Year if the Sweet Clover is Pastured in the Spring and the Second Crop Cut for Seed,

Sanitation in the Hog Lot

Many Cholera Outbreaks Can Easily be Prevented BY DR. HENRY M. GRAEFE

sanitary conditions and eliminate any objectionable insanitary features observed in their hog lots. Sanitation and the farm should be dealt with from two angles. The first will be measures to prevent the dissemination of disease from farm to farm, and the second will be measures to prevent the measures on farms which recurrence of disease on farms which have been infected.

Two Important Matters

Under the first heading, considera-tion should be given to the segrega-tion of animals sick with infective dis-eases, the proper disposal of all car-cases and the infection disseminated on the premises by such animals, and measures to prevent a recurrence of disease in hog lots we should consider the construction of housing and feeding facilities so that swine may be kept clean, also the arrangement of the premises to preclude the possibility proper drainage and be so arranged that the accumulation of dirt, filth or soiled litter, and other material, so that the lots and houses may be readily cleaned and disinfected and the premises ridded of harbored infection. Sun should be permitted to reach every soil the sangles to the sangles and converges supplies to the sangles. Each of these angles to the sanitary problems on the farm are equally im-

of cholera infected carcasses by thorogenation or burying at least 4 feet ander the ground where they will not be unearthed by heavy rains. If the infected carcass is permitted to remain on the premises, dogs, buzzards, crows, and other carrion-eating animals and birds may pick up the infection and carry it to distant farms, there to set up a new center of infection. It is no uncommon occurrence to the Federal or local veterinarian, when investigating an ontbreak of cholera, to have the swine raiser advise that about 10 days or two weeks before, his dog dragged in to the hog lot a part of the careass of a cholera-infected hog, that started the trouble.

cause for dissemination of cholera is permitting carcasses to get into creeks and streams. This usually infects the ing purposes, as it deeds below. It is criminal negligence and readily cleaned. not to dispose properly of carcasses that have died of any infective disease, as a sanitary preventive measure. The contamination of the shoes of persons, feet of animals and birds, wheels of the sand other form implements. sagons and other farm implements, by driving or passing thru lots where tholera infected hogs are confined makes it possible to carry infection from farm to farm.

Hog cholera, the most costly menace to the swine industry, producing disease for months, if depends on the prevented to a great extent, by the use of proper sanitary measures, if swine raisers will study sanitary conditions and eliminate any objectionable insanitary features obstacles in the boy lot. This lated material in the hog lot. This infection may remain on the premises for a long period of time:

Another point that should receive the earnest attention of every progressive hog raiser is the necessity of having all quarters clean, with sanitary hog wallows, fresh, clean drinking water, and well lighted, ventilated and comfortable quarters in order to insure for the pigs the greatest amount of vitality and resistance to disease. of vitality and resistance to disease. With the idea of assisting the swine raiser to eliminate a large amount of the losses, especially in the pig crop, the following suggestions relative to the elimination of infection on the farm are offered:

Proper Drainage Essential

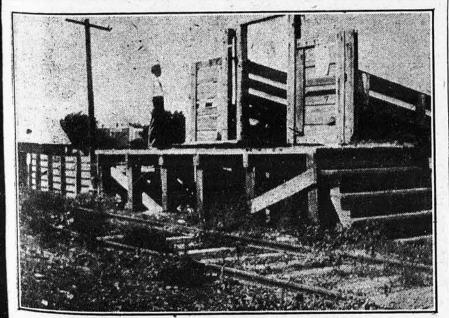
nook and corner, as sunlight readily will destroy infection. Sunshine is one of the most efficient and economical Almost two thirds of all cholera that appears in any community is usually traceable to failure to dispose properly of cholera infected carcasses by these disinfections of cresol or additional control or addit disinfectant approved by the United States Bureau of Animal Industry, should be used in the form of a spray. This will be found to be very effective. In addition a plentiful use of air slaked lime is very valuable. Swine raisers are cautioned to determine the value of disinfectants before using the same. Many people believe in the theory that the stronger the smell of any disinfectant, the greater the power to destroy infection. This idea is erroneous, for it is a fact that many strong deodorants do not have much germ destroying qualities.

Other Suggestions

Hog lots and sheds should be located Other Sources of Danger

Another common and less frequent that accumulate in your hog lot. Use only concrete construction in your hog lot for feeding, watering and wallow-ing purposes, as it can be frequently

Too much stress cannot be placed upon the value of sanitation in the prevention of disease in livestock. While vaccination is acknowledged as the best insurance against the losses of swine from cholera, it must be remembered that that procedure does not always give satisfactory results unless proper sanitary measures are used in connection with the administration of Harbored infection on the premises serum, and virtus in order that the caused by the elimination of the swine may be thrifty enough to withsholera germ in the faeces and urine stand the reaction from the virus.



The Loading Chutes, Stock Pens and Platforms at Shipping Stations Often Cause the Spread of Hog Cholera When Not Kept Strictly Sanitary.

EXCLUSIVE features built into the Ajax Cord combine to give the extra life and strength which "country" service requires.

First and foremost is the method by which these tires are constructed.

Each ply of cord is laid gently in position—never pulled or stretched. This means that full resiliency is retained, so that the tire can flex and give as it should when it strikes a rut or bump.

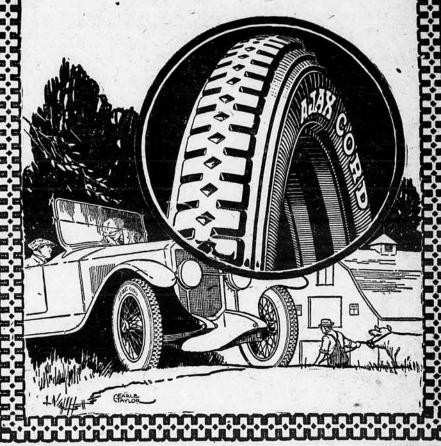
And that Cleated Tread - it holds like the heavy calks on a horse-shoe. And those "Shoulders of Strength,"—they brace and re-inforce the tread.

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When Writing to Our Advertisers Mention This Paper

Care of the Home Orchard portion of 1 part to 1,000 parts water. The wounds should be well disinfected, ing is that of an 8-inch or 10-inch plow. All the baby tractors are equipped with belt pulleys and they are admirable controlled to the contro

Cultivate, Fertilize, Prune and Spray BY ALBERT DICKENS







orchards deserve better conditions additional

is pitiable to see the poor products that come from the home orchards compared with the high-class fruit that the commercial man ships to the markets of the world.

The man who is jealous of his cow pasture and arranges to have every cow supplied with good nutritious food thinks nothing of permitting the pigs, calves and colts and occasionally the sheep and goats to compete with the trees in the home orchard.

Fruit juices and vinegar are in such demand now that there is no excuse for letting the pigs or sheep into the orchard to clean up waste fruit. Apples are worth more for cider vinegar than they can possibly be for stock food and the use of fruit juices has increased so much that a load of cider apples is well worth the care necessary to deliver them to the mill.

Things to Consider Care of an orchard-includes cultivation, fertilizing, pruning and spraying. Even the best soils will perhaps need some addition of fertilizing elements. By the time trees have been growing for from 10 to 12 years a good deal of plant food is locked up in the woody tissues and the addition of fertilizers is usually beneficial. However, some orchards have been killed by the addition of too much fertilizers. Occasionally the home orchard is about the only place where the accumulation of manure during the summer months can be spread and it gets an over supply of fertilizer that should have gone to the alfalfa field or even the pasture. An over heavy application of barnyard manure has been the ruin of many orchards. Ten to 12 loads to the acre applied every two or three years is better than heavier applications given more fre-quently. Wood ashes or even ashes from a straw stack are worth much more in the orchard or garden than for making paths or constructing dams. At the present price of potash fertilizers wood ashes are well worth the care necessary to protect them from the weather and apply them to the orchard or garden in such manner that they will not be blown away or wasted. If ashes are applied just be-fore the soil is plowed or cultivated

provide plant food and increase the moisture holding power. In heavy clay soils very often the chief need is to get such aeration of the soil as will promote the formation of available plant food and obtain such condition as will promote the ready absorption of rainfall and cultivation following rainfall in order to conserve moisture. In some sandy soils oc-casional mulching with straw or other coarse material is a good practice. Such treatment frequently increases the danger of insects and when it is necessary in order to insure proper soil corrosive sublimate used in the pro-

Care than the commercial orchards but rarely do they get it. Too often the home orchard has been a hybrid combination of junk pile, general pasture and implement shed, not to mention such incidental uses as turkey roost and feed lot. No area can serve so many purposes and yield profit and satisfaction.

If fruit is worth a dollar a bushel to sell it should be worth twice that amount to use. If any man is entitled to the best in quality and variety it is the man who grows the fruit. It is pitiable to see the poor products that come from the home orchards come

tion of the slope and the best results are obtained in plowing along the contour lines so that every furrow plowed may be made to help hold moisture rather than to hasten its escape.

Fertilizers to Use

An old orchard may well have an application of commercial phosphate and potash fertilizers and in case of poor soil the addition of nitrate fertilizers has often been profitable. A mixture of 200 pounds nitrate of soda, 200 pounds of acid phosphate or 1,000 pounds of rock phosphate and if it can be obtained 200 pounds of sulfate of potash or in lieu of this 100 bushels of wood ashes an acre would not give an over supply of fertilizer. Ground bone may be used instead of phosphate

if it is more easily obtained.

When it comes to pruning, practically every tree is an individual problem. If in the first few years of the tree's life sufficient thought has been given it to form a good head with been given it to form a good head with branches well placed so as to admit light and allow space for fruit wood to develop in later years it will be necessary only to follow out the plan by removing surplus and interfering branches and keeping the tree cut back prevent its intruding upon its neighbors. In locations where the rainfall is limited and irrigation is impossible the orchard varieties should be limited to those that mature early. Cherries, early plums and early varieties of apples succeed well in most localities. Care should be taken that the tree top is not permitted to overgrow the water supply. Often even forest trees die from lack of moisture during periods when there is deficient rainfall for two or three years. these sections the trees should be cut back and grown as half dwarf to insure them sufficient moisture to carry them thru unfavorable seasons.

Pruning Young Trees

This insures a strong growth of young wood and if followed by a careful thinning will produce a few large, strong branches instead of a bushy top which is unfavorable for the production of gold fruit. From three to

who attempts to reform them and often it is a question of getting the best results from a neglected opportunity. As a rule the removal of large branches should be avoided. Whenever it is necessary to remove large branches the work should be very carefully done. The tools should be clean. That is, they should be dis-infected with "dip" of corrosive sub-limate and the wound should be well disinfected and covered with paint. The best and cheapest disinfectant is

a satisfactory paint.

Dead wood should be removed as soon as possible and if there is any evidence of fungous growth all affected tissue should be removed if possible and particular care taken in disinfecting the wounds. Many times a diseased old tree may have its life prolonged and good results obtained for a number of years if careful work for a number of years if careful work is done in removing the diseased wood. The tools should be sharp and cuts made close to the main branches in order that the healing may be as rapid a boon because a lawn mower cutting a boon because a lawn mower cutting The tools should be sharp and cuts made close to the main branches in order that the healing may be as rapid as possible.

Insects and fungus are usually present in an old orchard and the grower should keep careful watch for evidence of injury. Vigorous growing trees usually require but little protection unless they are near an old orchard which contains diseased and insect infested trees.

Sprays to Use

The best, safest and cheapest spray for all leaf eating insects is arsenate of lead. Three pounds to 50 gallons of water is a good proportion for quick

control. The spray schedule most followed by The spray schedule most followed by commercial orchardists and which is generally satisfactory is the cluster bud spray of lime sulfur, 1½ gallons of the concentrated solution to 50 gallons of water and 2 pounds of arsenate of lead. This is a combination spray for the control of canker worm, curculio and apple scab. The blossom fall spray is of utmost importance for the control of codling moth or apple worm. The third spray is a combinaworm. The third spray is a combination spray for the control of fungus and insects and for varieties such as Ben Davis, Missouri Pippin, Rome Beauty and Maiden Blush, which are Rome to apple susceptible particularly blotch. The spray should be of Bor-deaux mixture and arsenate of lead, Care should be taken in applying the Bordeaux spray during moist weather. In case moist weather is present, varieties that are easily burned, such as Jonathan and York, should have lime sulfur substituted for the Bordeaux mixture. If these three sprays are given regularly they have usually given a fair measure of control. In some seasons conditions are unfavorable for spraying and are particularly favorable for the development of in-sects and fungus. In such case later sprays are necessary for the control of insects. Bordeaux and lead sprays every three or four weeks will usually

Baby Tractors Prove Worth

(Continued from Page 6.)

give a very high degree of control,

First, on what size of farm can they be used to good advantage? Anything from 5 acres up. The manufacturers usually consider that farms of 50 acres and under are their primary market. When you consider that it takes about 5 acres of land to provide feed for one horse, it is seen why the baby tractor is favored for small cultivation.

In truck farming they are particularly useful and that is where they got the name of garden tractors. A machine that will pull a 6-inch to 10-Young trees should always be cut back well during the end of the dormant season. Usually February or March is a suitable time for this work. This insures a strong growth of young the followed by a careful distance between error rows varies from distance between crop rows varies from about 17 inches to 40 inches so that the baby tractor works astride the row or Proper Tillage Required

Methods of cultivation will vary with the quality, texture and character of the soil. In loamy or sandy soils very frequently the chief need is to add sufficient humus to the soil to provide plant food and increase the moisture holding.

Muction of good fruit. From three to five strong branches are sufficient for the proportion of the control of the operator, there is no trampling upon the plants which so often happens when using a horse, as may be furnished with light and soils very frequently the chief need is to add sufficient humus to the soil to provide plant food and increase the moisture holding.

They are also well adapted for cultivation in orchards for they can be used around and under the trees without danger of breaking down the young trees or "barking up" the big ones. Being only about 3 feet high they go under branches and limbs where a

horse or mule could not pass.
On large farms they, have been used for cleaning up the headlands and near the fences where large tractors have plowed. Here they do the work often done with a team of horses, but it

with belt pulleys and they are admirably suited for operating the small corn shellers, feed grinders, cream separators, pumps, washing machines, grindstones, and for running the counter-shaft in the farm work shop. They are also used in some instances for the farm lighting plant. Operating so easily under their own power in moving from place to place, they are sometimes more favored than the ordinary small

fairly large swath can be attached and in the cool of the evening the man of the house can ride around his door-

yard and clip the lawn perfectly.

By the performance of the tasks briefly touched upon in this article the baby of the tractor family has proved its worth. It is, perhaps, unnecessary to add a final admonition; but to prevent any possible disappointments among future purchasers, it should be remembered what 1 to 3 horse power can do. Don't get the idea that the baby tractor is a substitute for its high protter. It is not the idea of the cales. big brother. It is not. It is in a class by itself and not intended for the work a large tractor does.

Selection of Breeder Sheep

BY A. M. PATERSON

The profits from a flock of sheep will depend to a large extent on the selection of the ewes and rams. When selecting grade or Western ewes se-lect for uniformity in size, type, and conformation, because this class of ewes will produce lambs of more uniform conformation which will demand

a higher price on the market.

The animals should be mouthed and all gummers cut back, as ewes with these conditions will not do well and a great many times fail to get with

Watch the udders, and cut back animals that have spoiled udders and teats cut off, which sometimes hap-pens in shearing. Lambs from this class of ewes will have to be raised by hand which requires extra labor and expense,

The good breeding ewe should have a short, broad, feminine head. The neck should be short, the ribs should be well sprung, and the chest deep, as these conditions are indications of constitution and vigor which are very essential,

The back should be straight, strong, and medium in length; the hind quarters well carried out and full. The animal should be placed on four strong legs, one set on each corner of the body. The fleece should be medium in length, dense, showing good condi-tion, quality, and crimp. It is often said the ram is one-half

the flock. However with the average grade or Western flock he should be considered more.

The ram should be purebred, with plenty of size, constitution and vigor. In the case of small ewes a larger ram should be selected and in the case of large, rangy ewes, a smaller, com-pact ram should be used in order to get a more compact bunch of lambs.

Before selecting the ram the ewes should be studied for weak points and a ram should be selected that is strong where the ewes are weak. The ram's built head should be short, broad, and masculine. The ribs should be wide and deeply sprung; the back strong and wide; the hind quarters, long, deep, and full. He should stand squarely on four good strong legs, and he should

Broomcorn Men Exonerated

We are glad to inform our reader that the charge that the manufacturers of brooms and buyers of broomcom had entered into a combination or conspiracy in restraint of trade has been investigated by special investigators of the Federal Trade Commission, They report that they found no evidence to support the charge of any combination or agreement among the manufacturers of brooms and the users and buyers of broomcorn to restrain trade or depress the price of broomcorn. This statement is given out by Milard F. Hudson, Chief Examiner of the Federal Trade Commission.

Kansas soils need more humus.

Summer Silos for Our Cows

Green Feed Will Increase the Milk Production

BY JOHN W. WILKINSON

of silos is still far from being sufficient to meet the needs of our livestock. Farmers in Europe even in ancient times appreciated the value of having silage for their cattle in winter time. Silage for their cattle in winter time. the number of silos has increased rapidly, but not half as many silos as are needed have been constructed.

Silos in the Mid-West

In 1919, according to investigations made by the Research Department of made by the Research Department of the Capper Farm Publications, Kansas and 13,511 silos; Nebraska, 502; Mis-sonri, 18,000; Oklahoma, 4,106; Texas, 674: Iowa, 25,000; Illinois, 30,000; In-diana 32,000; Minnesota, 18,000; Wis-consin, 64,000; South Dakota, 5,000; North Dakota, 3,161; Arkansas, 1,203; lolorado, 2,500; Wyoming, 181; New Mexico, 61. These estimates were based on assessors' reports made at that time and it is possible that the actual number was much larger.

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Nearly every farm could use to good advantage twice as much silage as is now used. In fact, the silo can be used in summer as well as in winter. Every farmer, and especially every dairyman, should have a summer silo as well as n the year. the wonderful increase in milk producbountiful pasture is a cow's heaven. This season usually lasts thru June and the early part of July and that is the period when we have our largest milk ran be easily assimilated by the diges-bodily comforts. live system.

If the green succulent feed afforded. lucrease in milk and butter production, why not supply cows with this kind of

S ILOS have gained steadily in popularity since their first introduction silage?. The silo will enable us to have green the this country, but the number green feed every month in the year

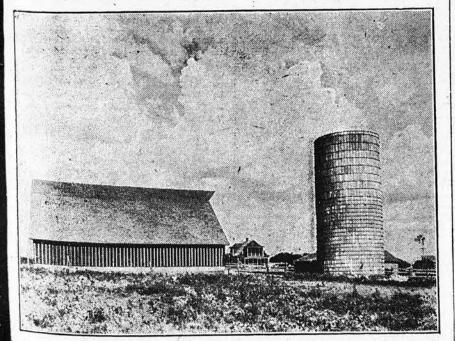
silage for their cattle in winter time. informed dairyman remark that if he The ancient Greeks and Romans often had to choose between winter or sum-The ancient Greeks and Romans often placed green feed in pits to preserve it for winter use. The preservation of beet leaves, beet waste and other green forage by gathering into heaps or into learthen pits and covering with earth has long been practiced in Europe. However, the first silage known in America was made by Francis Morris of Oakland Manor, Howard county, of the pasture is too great for the average winter or summer silage feeding, he would prefer to go without the winter supply. This man had much experience in the business; he knew that the biggest damage to a dairy herd is usually produced during July and August, when pastures of Oakland Manor, Howard county, of the pasture is too great for the average row-keeper. It is so easy to turn America was made of Oakland Manor, Howard county, of Oakland Manor, Howard county, of Oakland Manor, Howard county, age row-keeper. It is a Maryland, by putting whole corn forage into a pit dug in the ground and the cows on the pasture and then forage into a pit dug in the ground and the cows on the pasture and then forage in twith dirt. The first silo get them except, perhaps, on a Sunday once in a while when they are salted, in America built partly above ground once in a while when they are salted, when they are rounded up every morning and night for milking. True, and the county of the county o morning and night for miking. True, there is a short season, especially in the corn belt, when pastures are exceptionally good. In May and June we generally find the grass tender and green and plentiful in quantity, but even during these months silage can be fed with profit to any class of cattle. During the early part of May the grass is more or less watery and lacks body is more or less watery and lacks body and nutriment. Animals often are injured by the assumption that they are receiving all the green feed that they need. In June, as a rule, the grass is at its perfection, but the last half of July brings a drouth, flies become very numerous, weeds spring up in the grass and pasturage conditions, especially in the middle states, become poor. This is the time for the summer silo. With cows in a darkened barn and plenty of succulent silage, good records can be produced and that at little cost.

The Best Feed Insurance

"A cow is more or less of a machine, winter silo. In fact, silage can be and as any other machine it can run fed to good advantage thru all seasons to capacity providing it is properly Everyone has observed tended. We hear every once in a while increase in milk product about some big dairy record. The es when cows are turned other day I called at a farm and looked from that comes when cows are turned other day I called at a farm and looked out on pasture. Someone has said that at a cow that was making a wonderful dairy record. She had averaged more than 100 pounds of milk for 160 days, and was at that time producing more than 100 pounds a day. This cow was and butter production. Later the approach of hot, dry weather dries up the proach of hot, dry weather dries up the stars to a large extent and then the solution with all the good food solves begin to fail in their milk. When the grass is getting plenty of rain and fortable, happy condition. The great moist temperature weather it becomes butter and milk records of this coun-Freen and thrifty-and supplies the milk try are not made on pastures, but are tows and other farm animals with the made on the best pasture condition, in maximum amount of food elements in which they are supplied with all they a succedent and palatable form that wish to eat and enjoy all necessary

Corn has always proved a very sat-isfactory crop for making silage, but by pastures in the spring and early kafir, milo, feterita, cane and other summer will cause such a wonderful sorghums make good silage crops and have almost the same feeding value.

(Continued on Page 11.)



is a Good Type of Cement Stave Silo That Will be Found on Many Western Farms. Its Durability and Low Cost Make It Very Popular.



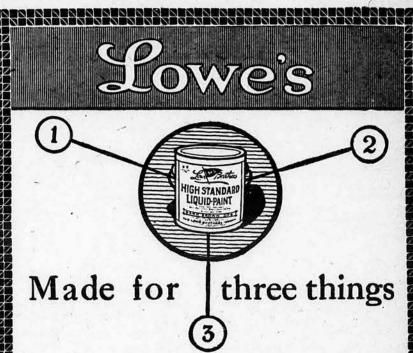
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There is only one way to tell about any of the three; and that way is by a paint's reputation. Lowe Brothers one leading dealer in each town. Send for circular—"Figure Your Paint Cost with a Brush—Not a Pencil."

have a reputation for making paints of the highest quality. It's like buying Gold Medal Flour—you know it's good, because it always has been good. With exactly the same confidence you can buy any paint or varnish Lowe Broth-ers make. They are sold by the

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Farm Crop Cost Accounts the average in managerial ability. On uary 1, 1920. Some time during the every farm I visited a little inquiry year the farms will be surveyed and developed the fact that business accounts were being been been been been field. A produce short is been

Accurate Records Will Show Losses and Gains

BY G. C. WHEELER



Every Farmer Needs Roomy Barns, Good Silos, and Purebred Livestock. These Coupled with an Accurate Cost Accounting System Insure Success.

so slovenly in their business methods that few of them have any sort of so obtained never can be used as a knowledge as to where they are in a basis for constructive development business way. While farm accounts from the very nature of the business cannot be kept with the exactness of the accounts of city business concerns, the accounts concerns I am convinced that farmers are not so ignorant of the business side of their operations as many of us have thought. There is room for much improvement, however, along this line. The economics of farming and farm management problems are demanding the attention of all forward-looking farmers and leaders of agricultural thought at this time. It is in this line that we can look for the greatest progress in agriculture in the future.

Careful Accounting Necessary

While the most successful farmers are keeping more or less accurate rec-ords of their business transactions, few are doing cost accounting in the true sense of the term—in other words, their accounts tell them little or nothing as to how much any particular crop or product has actually cost. The various operations of farming are so in-terlocking and the life of the family is so intimately related to the business that it is a most complicated matter to distribute the various items of expense in such a way as to reveal the even after this is done in the most ac-curate manner possible the results as to any one project cannot be held up and analyzed without considering its relation to the business as a whole. For example, some certain crop studied as a separate project might appear to be losing money, but its relation to the whole might be such as to make it of vital importance in the general plan of operation.

Some real cost accounting work is being done in two Kansas areas at the present time, one in Jackson county, involving 23 farms and one in McPherson county. I visited nine or 10 of the farms in the Jackson county area last month and found the co-operators all most heartily in accord with the work being done. It is under the direct supervision of the agricultural economics department of the Kansas Agricultural Experiment station at Manhattan, which is headed by W. E. Grimes, professor of farm management, The expense is borne jointly by the Kansas Experiment station and the Office of Farm Management of the United States Department of Agricul-

The Washington office stands ready to finance work in a number of similar areas when the state will provide the money for half of the expense. Work in an area located in the Flint Hills region, where the cost of producin beef could be studied in detail, should by all means be started at once. This will probably be the next area where cost accounting work will be done. There should be 10 or perhaps more of these cost production areas operating in Kansas in order to cover the state properly. This cost accounting work is by no means in the experimental stage. It has been carried on in Minnesota in co-operation with the United States Farm Management Office for a number of years and some very valuable results have been obtained.

Surveys of special areas or special lines of production, such as have been made in Kansas in a number of counties by Professor Grimes and his assistants and the information obtained

ARMERS can and do keep books. by the questionnaires sent out by the There has been a far too preva- state board of agriculture, are of value lent idea abroad that farmers are in getting at facts in a general way slovenly in their business methods and without much cost, but the results

In the Jackson county area where the work started January 1, 1920 all the main types of farming of that section of the state are included. On nine or 10 of the farms general farm-ing is being followed, the principal crops grown being corn, wheat, clover and alfalfa. On all of these farms some stock is kept, milking cows, the selling of cream and the raising of a few hogs being features of the business. On four farms dairying and the breeding of registered dairy cattle is the main livestock project. On at least two, purebred beef cattle are handled and on two farms Percheron horses are kept. Several of the farmers specialize in the production of market cattle and hogs, while a few handle sheep as a feature of the livestock produc-The keeping of these accounts will continue indefinitely. At the end of each year a detailed summary will be returned to each co-operating farmer, giving his business for the year in detail, and the averages of the other co-operators.

now being done. In every area a route man is located who has been especially trained in agricultural economics. E. M. Hiested, who has been located at Holton since January 1, located at Holton since January 1, dropped the work June 1 to begin farm-ing for himself in Woodson county. W. W. Fetrow, a farm-reared man who just graduated at the Kansas State Agricultural college after doing his bit ricultural college after doing his bit in the 35th division, going thru the Argonne drive, succeeds Mr. Hiested and was making his first rounds the week of my visit. Three routes-have been laid out from Holton as a center, the longest requiring about 30 miles travel to cover. These routes are covered three times each week.

On practically every farm visited the women were the bookkeepers. On each farm a daily labor report is kept, showing in detail the number of man hours and horse hours to every class of work performed. The route man transfers this to his book, a carbon sheet duplicating the record, this carbon copy being retained to guard against the possibility of the original record being lost in the mail or otherwise. At the central office in Manhattan one girl is employed full time on each area and proper distribution of all the items of expense chargeable to the different crops and projects is made. This detailed labor report is a feature of accounting which few farmers have at-tempted. Without the constant super-vision of the route man it probably would not be kept with any degree of accuracy.

A cash received and cash paid account is also kept on every farm in duplicate, one copy of which is col-lected by the route man at the end of every month. He inspects this record however, on every visit in order to be sure all details are being recorded properly. Then there is a monthly chore account in which the labor involved in caring for every class of form animals armears in detail. A farm animals appears in detail. monthly feed account shows feed consumed by every class of livestock. Of course the work calls for a very carether co-operators.

fully itemized inventory which was
The men on these farms are above taken in the Jackson county area Jan-

counts were being kept before the men each field. A produce sheet area of agreed to co-operate in the more acsurately detailed cost accounting work and the amount of these products sold or consumed, also the weight of any farm animals slaughtered during the month for farm use. This sheet gives the average number boarded daily and the average number boarded daily and the extra meals provided during the month and the number of women doing the housework. All these monthly sheets are turned over to the route man at the end of the month. That the co-operators heartily approve the work and recognize its value is evidenced by the spirit which they are showing in keeping all these various records. records.

Showing of Karred Wheat

J. B. Reeves, one of the co-operators, is specializing in Kanred wheat. He purchased his farm five years ago. It had been a rented farm for a number of years and as Mr. Reeves expressed it, was a "big cocklebur patch" when he came to it. He has 135 acres of wheat which he fertilized with a commercial fertilizer of a 2-12-2 formula at a cost of about \$2.50 an acre. A check round of the drill without fertilizer was made in each of two fields and at the time of my visit this unfertilized strip was barely coming into head, was not much more than a foot high and had stooled but little, while the remainder of the field was appar-ently a week farther advanced than the average wheat of the community and from present indications will yield considerably more to the sore than the considerably more to the acre than the unfertilized strip.

On the R. E. Keim farm the records were in especially good order. Mrs. Keim was the bookkeeper. The J. M. Ryan farm was next on the list and as we drove thru the fertile Straight Creek bottom we saw Mr. Ryan up to his waist in a field of Kanred wheat. Fully a third of the 50,000 acres of wheat in Jackson county is Kanred. wheat in Jackson county is Kanred.
Mr. Ryan had only 6 acres last year.
It yielded 30 bushels to the acre while ordinary wheat in the same field threshed out only 20 bushels to the acre. All of his wheat is Kanred this year and he sold all of last year's crop he did not need for his own seed for he did not need for his own seed for \$3 a bushel. Driving to the house the routeman proceeded to get the necessary records from Mrs. Ryan. This farm has been increased greatly in value by the straightening of the creek which was done a few years ago at a cost of about \$14 an acre assessed against the land benefited. Mr. Ryan recently refused \$150 an acre for a tract which he bought for \$49 an acre a few years ago.

The last place on the route was that

of H. J. Haag and here we found no one at the house, but the records were hanging up in a back room and the necessary inspection and copying were quickly done. The route man completed his day's work by driving to Holton and writing up the records he had gathered in preparation for his report to the Manhattan office.

Give a Thought to the Farmer Who Feeds the World

BY RAY YARNELL

THERE ARE 6 million farm families in the United States. More than 30 million persons live on the farms, almost a third of the population of the nation. Those persons produce the food for the other 80 million inhabitants. They work on a 10 or 12-hour a day schedule, a good deal of the time out under a hot sun or in the cold of

When the season is favorable they raise good crops but they are absolutely dependent on the weather as regards their profits and the return on their original investment. Very often they lose the investment. Hail, in 30 minutes, can ruin the wheat crop awaiting harvest that has taken many months to grow. Corn will wither and die under a

Folks in the big cities go to the market and buy the things they have to eat. But it is seldom that they give a thought to the man who produced those things. Many of them do not know how their food is produced or where. They don't seem to care. They seldom stop to think that it takes quite a while for a beefsteak to grow and for a ham to develop.

The farmer, too long, has been taken for granted and his rights ignored by other classes. It has been assumed that he was all right, that there were no serious problems he had to face and that all he had to do was to put the seed in the ground, watch it grow and harvest the product at the proper time. Then he could take it to market, sell it, get the money and be happy ever after.

But that archaic view is beginning to get some solid humps. Some

But that archaic view is beginning to get some solid bumps. Some persons in the city are waking up to the fact that the farmers are a mighty factor in the future development of the Nation. They have begun to realize that they must help the producer of food improve his condition and realize a profit from his work and investment if he is to continue maximum production. In nearly every respect the farmer has been "the goat" as the cost of living has advanced. At the same time the price of one of his principal products, wheat, was arbitrarily fixed, the prices of the things he had to buy were allowed to soar to enormous heights.

More than ever before the farm and the farmer is figuring in magazine and newspaper articles. New York City newspapers are printing many columns of material about farmers and their problems. In Congress the question has been repeatedly discussed. Magazine writers have made investigations and reported their findings.

And it is time that the greatest industry in the United States got.

And it is time that the greatest industry in the United States got some attention from the big men of the Nation. The farmers deserve such consideration. Their business is of vital importance. It needs the protective tariff of National interest and consideration.

Give a thought to the farmer—the man who feeds the world.

Drugs Injure Dairy Cattle

The use of drugs with the idea of increasing the fat production of test cows has been tried out by Iowa State Agricultural college dairy section. In most cases it was found that drugs decreased rather than increased the fat

Such drugs as alcohol, castor oil. pituitrin, aloes, magnesium sulfate, nux vomica and sodium chloride were tried and in all cases they were detrimental to the cows. All cows used were in good normal condition at the start of the tests and various sizes of doses were used.

In some cases it was found that flow of milk and butterfat was increased slightly, but this soon fell off and in the end a decrease was no-

Up to date no drug has been found that will increase the butterfat. Dairymen are strongly advised not to resort to this method as it injures the cows and is not a fair way to gain a record.

There will be a great increase in the number of tractors in Kansas in the next two years.

Kansas Orange sorghum is a satisfactory silage crop most years in East ern Kansas.

Where Caution Counts

What a lot of pleasure folks are get-ing out of automobiles and what a world of efficiency has been added to usiness life by the advent of these wonderful machines.

It cannot be denied, tho, that the ruth of the old saying that there is no rose without its thorn has once more open exemplified. When we read in tke place.

A recent compilation shows that in he year 1919 nearly 4,500 people, a ery large majority of whom were ridorgetfulness on the part of drivers.

ought to remind us that anybody with the temerity to dispute with it the ight of way over the crossing, must expect to pay the penalty.

More than once—many times, in fact the writer has observed with deep oncern the kind of thoughtless beoncern the kind of thoughtless behavior that leads to tragedies at crosshgs. Recently a farmer driving
yer a country highway running paralel to a railroad track, heard a train
oming behind him. His wife and chillren were with him. When he made
he turn at the point where the highvay crosses the tracks, the locomotive
yas whistling at the whistling post a
uarter mile away. The driver did not
ealize that a fast train can run that
listance in 15 seconds.

Unwisely he decided to try to "beat
t agross." That was a fatal resolve.
The car was struck squarely and that

the ear was struck squarely and that

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whole family perished.

If the attempt had been successful, that would have been gained? Nothing worth mentioning. The driver hight perhaps have felt a little gratiied vanity—but such a slight reward would not compensate for the risk he oo. He ran the hazard of losing his own life and the lives of others dear o him.

Let's pass the word all along the line hat this chance-taking at the crossing has cease. The war is over. Are we toing to have no pleasant interval of reedom from tales of sudden death nd destruction?

These accidents at railroad crossings

re quite unnecessary.

Most of them happen because people orget to read the crossing sign, "Rail-oad Crossing—Look Out for the Cars."
It is such a pity that people do not look out" more than they do.
When we think of what is at stake

life-that greatest of all gifts, it ems as if so many reminders should be necessary.

We beg our readers to take this adnonition to heart. When, in the course f your motoring trips, you approach alroad tracks that must be crossed, member that the experiences of thouthis have demonstrated that this is de place where unusual caution must e exercised and where chance-taking dust not be tolerated.

Summer Silos for Our Cows

(Continued from Page 9.)

lfalfa, cowpeas and soybeans also ave been used successfully for maksilage, but require careful packing and handling. All of these crops have and in most places enough rain to give them a good start and the corn crop een making rapid progress during past 10 days, but it is still in an rtain stage and may yet be injured pusly by dry weather that is alsure to come later in the season. silo is the best feed insurance that be provided. Even when seasons avorable and there is plenty of it is a mighty good plan to fill the with green succulent feed and it over to the next year, when a season may come and cause a rage of both feeds and pasture. man who is wise always plans to ke the fat years tide him over the an years. The silo offers the most

tile, brick and metal. Good suggestions on building silos will be found in Farm-ers' Bulletin 589 of the United States

The stave silo is very popular, largely because of its low cost and comparative ease and quickness of constru-tion. A number of manufacturing concerns have put on the market patent ery large majority of whom were rid-g in automobiles, were killed or in-ing in automobiles, were killed or in-are in general demand and give good satisfaction. If cement construction is satisfaction. If cement construction is used the silo should be built at least orgetfulness on the part of drivers.

All persons, even quite young chilten, have a fair understanding of the rore and power of moving trains of the material or plan of construction, the material or plan of construction, the material or plan of construction, the essential requisites of every silo are that it shall be water-proof, airtight and substantial, and that it shall permit an even settling of the silage. Storing silage is a "canning process" in which the air must be excluded.

When we see a train coming, the remy rush and roar of its approach and roar of its approach of the temerity to dispute with it the remeritation begins the entrance of air is very detrimental, as it encourages the growth of molds that will courages the growth of molds that will cause the silage to spoil. Other de-wheat yields can be increased on sirable requisites are durability, or per-most farms by the use of better seed.

practicable means of carrying out such manence, low upkeep, frost resistance, a plan. fire, wind, insect and vermin-proof cona plan.

Any kfnd of a sile is a good one if struction, and good appearance. A fireit is what you desire and you give it proof sile filled or partially filled with
the right kind of care and attention. silage remaining uninjured in case of
The kinds of siles we usually find are
made of wood, cement, clay block or and source of comfort to any dairyman
the block and metal. Good suggestions or farmer. His chief concern should or farmer. His chief concern should be to have a sufficient number of silos trailroad grade crossings, caused by notor cars being struck by trains, we are greatly shocked, but few of us realize how frequently these disasters

The stave silo is very popular, largely because of its low cost and complete its low cost and livestock supplied with succulent feed every month in the year. This will help to reduce the high cost of feeding and will reduce the cost of production for all dairy products. The saving thus largely because of its low cost and complete its low cost and livestock supplied with succulent feed every month in the year. This will help to reduce the high cost of feeding and will reduce the cost of production for all dairy products. The saving thus low cost and complete its low cost and cost and complete its low cost and complete its low cost and comple effected and the consequent increase in production will greatly increase the dairy profits.

See \$4-Wheat Market Ahead?

Storing of wheat is particularly advisable this year, not merely because of car shortage and inability of inter-



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While part of your fleet is finishing the harvest, the others "get away" to an early start in plowing, and they make quick work of it before the sun dries out the stubble.

Cletracs follow close behind the plows, too, in fitting. They prepare a moisture-holding top mulch. They do not sink into freshplowed ground-do not form tractor hard-pan.

An improved water air-washer protects the powerful Cletrac motor on these dusty, dirty jobs. Keeps the tractor working smoothly as it helps you farm more acres.

Cletracs are a big-paying investment for the grain farmer. Let us tell you more about them.

The Cleveland Tractor Co.

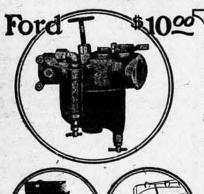
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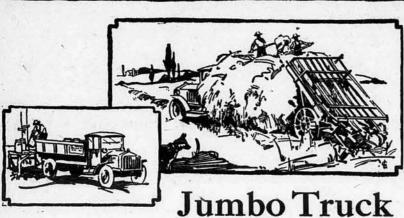


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Then hook your Jumbo Truck to the hay loader-it gives the steady, even pull necessary, carries a full two-ton load, gets to the barn or stack in a hurry, right back to the field for another load. It's a big help getting your hay in at the right time.

The Jumbo Truck works fastest where horses are slowest, never gets tired, never runs away, is not affected by the weather, requires no land for its feed, eats only working ilways ready to Completely equipped-no extras to buy, except body. Other Models to 4 tons.

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Rural Engineering Hints

By C. E. Jablow =

and dry weather feed, for the feeding of silage has long passed the experi-mental stage. All up-to-date farmers today know something of the saving in time and feed and the resulting profits when the silo is being used. Even considering this fact, it is nevertheless true that in many instances the addition of a silo could permit feeding more stock from the same acreage or the same stock from a lesser acreage. It is certainly true that all the gain the farms thruout this portion of the country.

Advantages of Silage

The advantages of silage as enumerated by the Association of American Portland Cement Manufacturers are very much to the point and are given in the following:

given in the following:

1. The value of a crop preserved by the use of a silo is increased about 40 per cent over a crop harvested in the usual way.

2. At a conservative estimate, two cows can be kept by feeding silage at the cost of one cow from the same acreage, fed on hay or other roughage.

3. The moderate cost of husbanding into silos compared to the cost of making hay, husking corn or shredding fodder.

4. Convenience in feeding and economy of storage room. Ten tons of silage can be stored in the same space as 1 ton of hay."

5. When fed with proper rations silage is a greater milk producer and fattener than any known feed.

6. Ensilage-fed stock, as a rule, are in a healthier state than when other feeds are used.

7. When properly taken care of there is

are used.
7. When properly taken care of, there is absolutely no waste of any part of the corn

absolutely no waste of any part of the corn crop.

8. By providing a succulent forage, winter dairying is made profitable and no reduction of stock is caused by a dry season.

9. The acreage needed for pasture is greatly reduced and consequently more land can be brought under cultivation.

10. It is the cheapest feed that can be produced, as well as the best.

11. It is a certain supply, notwithstanding the drouth or the flood,

12. Inclemency of weather does not hinder its harvesting. The silo is the cheapest method of handling and storing a crop and the best method of saving and realizing the fullest value of the crop as feed.

A Good Silo

It is very much the same with silos as it was with the Kentucky colonel when speaking of liquors. Any kind is better than none. Be that as it may, we should not be satisfied with anything less than the best for eventually it will be apparent that in the long run the best is also the cheapest.

The points that go to make up a good silo are rigidity of construction, walls that are air-tight, walls that pre-sent a smooth surface to the silage. These three qualities can be met to a varying degree with frame construction, with sheet metal, with tile or with concrete. Additional desirable qualities of concrete, are its non-corroding, non-swelling, non-contracting properties as compared to wood or metal. The fact that the concrete structure is a substantial affair and fire-proof is also much in its favor.

N THIS day and age it is scarcely solid wall monolith. The hollow wall necessary to dwell at great length monolithic concrete silo is scarcely upon the value of silage as a winter warranted in this latitude and is naturally more difficult to construct.

The cement stave silo meets with some favor as it eliminates the labor and expense of the forms but the wall may not be as tight and the structure would not be as rigid as if cast into one solid stone. The concrete block silo has the same shortcomings as the

cement stave, explained above.

As regards the handling of cement in making concrete, much has been written in these columns. The reader possible has not been made, even on may refer to his back numbers of this paper or may procure helpful bulletins from the agricultural college in his state, from the United States Depart-ment of Agriculture in Washington or from his cement dealer.

Monolithic Forms

Two silos recently built on a farm in which the writer is interested were built of concrete of the monolithic with solid walls. These were cast in sheet metal forms rented for the short interval of time necessary for the construction. These forms came knocked down and were assembled by being bolted together. A very smooth job resulted. However this was per-haps more the result of careful tamping and spading next to the forms in order to eliminate any outward evidence of honeycombing. Wooden forms when properly made and wet previous to placing the concrete should give sat-

isfactory results.

A good silo will not necessarily insure good silage unless the crop is taken at the proper stage, is properly wet down and packed into the silo and when it is fed, enough is removed at frequent enough intervals to prevent decomposition getting a start.

Much can at times be gained by partnership or community ownership of a corn harvester and ensilage cut-Unfortunately under some such circumstances what is the business of more than one man is nobody's business and therefore the machinery does not get the care that it should.

Easy to Preserve Eggs

Fifteen dozen eggs can be preserved in a 5-gallon jar of water-glass, says a United States Department of Agri-culture circular. This is enough to supply an average family during the high-priced winter months. Eggs laid during May and early June have been found to keep better than those laid later in the season. Only eggs known to be absolutely fresh should be used. Infertile eggs keep better than fertile eggs. Only clean unwashed eggs should be used and the shells should be strong about egg preservation will be sent free by the United States Department of Agriculture.

Perhaps the one with which we are most familiar and the one best suited year's crop should be the rule this for this portion of the country is the year with both corn and the sorghums.



Here is a Silo That Stood the Test of a Storm and Saved the Feed. A Good Durable Silo is the Best Crop Insurance a Farmer Can Have.

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Jayhawkers Farm Notes By Harley Hatch

cut in this vicinity. It is uniformly good but some growers report a rather thin stand due to winter-killing. This seems to be a fault of soft wheat here; it kills during the winter when hard wheat pulls thru. On the other hand, soft wheat stands a wet spring and harvest much better than the hard va-

Oats Ripen Before Wheat

Harvest has begun on this farm. The oats ripened before the wheat and the 19 acres grown on this farm were all in the shock at noon, June 24. The same crew shocked them that shocked the oats last year and they seemed agreed that the 1920 crop will out-yield that of 1919. That crop made us

stand for two days more so we putted to the oats field of a brother where the grain was ready to cut. We have so much to cut that we cannot afford to waste a moment and the oats were cut just a shade green but that did not injure them last year and I do not think it will now. They would have been entirely ripe in 24 hours more, so we decided they would draw substance from the straw for that period of time, even if they were in the shock. Oats seem to have ripened as they should, this harvest, for the heads are fully filled and most of them are yellow in color while the straw has a green cast with not a trace of rust.

Harvesting by Contract

We have taken the job of cutting 55 acres of wheat for a town man. This wheat lies just across the road from this farm so it will be handy. The price to be paid an acre is the "going" price and I have not yet heard what that is. Last year \$2.50 was the usual price for cutting all small grain but this spring I heard it was to be advanced to \$3. On most farms the usual price for field hands is \$5 a day or 50 cents an hour. In some cases board is provided at this figure while in others the noon meal alone is given and in some instances both dinner and supper. Some hands thought they should have the 70 cents agreed upon by certain persons in the main wheat belt but the farmers here refuse to pay that. They say \$5 a day with board is good wages and I agree with them in this, for the barrest work here is mainly shocking which is not quite so strenuous as fighting a stream of wheat straw in a header barge.

Getting a Binder Hitch

As I said last week, we ordered a later hitch with the new binder but failed to come with the machine. ived later and proved to be for an entirely different make of machine and in addition it was a double hitch, to urgent re-order was sent at once and that brought an exact duplicate of the first one—a double hitch for an enirely different make of machine. then set to work in our blacksmith shop and made a hitch which is most satisfactory in every way. With it one can turn an almost square corner without riding down a bit as consistent and hy riding down a bit of grain, and by keeping the edge of the fender of the tractor just at the edge of the standing

THE WEEK which ended June 26 grain it brings the binder just right. was, in the main, a favorable one both for crop growth and for harvest work. The unexpected cool weather has held back the ripening of all grain, no doubt to its great benefit. Small grain can scarcely help but fill well in such weather and most wheat and oat growers are adding an extra and oat growers are adding an extra bushel or two or three to their prospective yield. Most soft wheat has been cut in this vicinity. It is uniformly to suffer from heat and the flies, When we stop the binder there is no holding we stop the binder there is no holding of a team, so that adjustments can be made in peace and safety.

Tractors Supplant Horses

We started in harvesting this year better than horses. It moves along just a little faster and 20 acres is a fair do with our hay this year for we still day's work with the 8-foot binder. The tractor handles this binder very easily and the operator says that it can be space in the barn needed by the coming sent right along with the use of no more than % the amount of gasoline required for plowing. It costs less for fuel and oil to cut 20 acres a day with the tractor than it costs to provide feed for a double shift of horses cutting an look at the shocks one would say this crop would make 45 bushels. The threshing machine is the only correct reporter, however. The 19 acres took 48 pounds of twine or about 2½ pounds to the acre. There are no weeds or grass in the shocks; they are all oats.

Every Moment Utilized

A visit to the wheat, when the oats were cut, disclosed that it ought to stand for two days more so we pulled to the oats field of a brother where the look are the shocks one would say this equal amount. To make sure of allowengular and and the daily consumption of gasoline 10 gallons, which to gallons, which the daily consumption of gasoline 10 gallons, which the daily consumption of the Kansas State Beekeepers' association held a meeting June 28 at the subshels of oats which cost anywhere jects discussed were artificial increase and surplus honey by O. A. Keene, foul of the oats field of a brother where the look is the only correct to gasoline 10 gallons, which the Kansas State Beekeepers' association held a meeting June 28 at the subshels of oats which cost anywhere jects discussed were artificial increase and surplus honey by O. A. Keene, foul of the cost of the entomological commission by O. F. Whitney.

much but to be fair we called it that. We have no figures on the depreciation of the tractor or of the horses; both depreciate during a strenuous campaign like harvesting but whether in equal degree or not I cannot say. To buy eight horses at present prices would cost much more than our tractor did and to cut 20 acres a day requires that number. With one team only in use 12 acres is all that can be figured as a fair day's work.

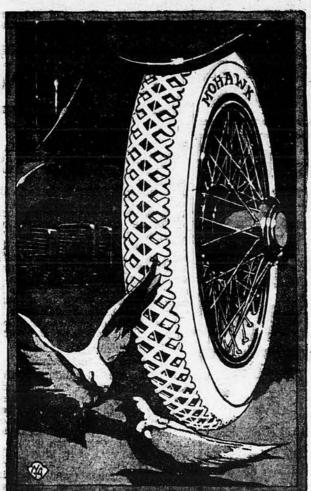
Alfalfa Crop is Light

Before starting harvest we cut the second crop of alfalfa in one of our fields and found it, like the first crop, very light. The cool, dry weather which was so good for the small grain was not good for the alfalfa and scarcely ½ ton of alfalfa to the acre was harvested as the second crop from one field. The other field seems about like the one harvested but it will now like the one harvested but it will now have to stand until the small grain is cut. Unless we have plenty of mois-ture our alfalfa crop is going to be a mighty light one this year but we will with an entirely new outfit. For power have plenty for our own use because we used the tractor and found it much so much of the 1919 crop was carried better than horses. It moves along just over. In fact, I don't see what we will

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Careful work was the solid foundation on which the Mohawk Rubber Company was organized seven years ago and on which it has grown to a position among the leading tire companies of the country.

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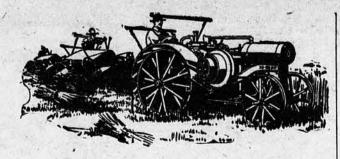
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Spark Plugs and Harvesting

HERE you are, 'way out in the field, far from the barn. A spark plug goes dead. You've got to hold up the binders until you can send back to the barn for a new plug. The hands have to wait till you make repairs.

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farming in Western Kansas

THE question often has been asked, how long will silage keep in the silo? It is hard to answer as there is no record of silage spoiling from old age. At the Colby Experiment station silage was fed in 1918 that was put up in 1914 and with the exception of where air got into it around the edges, it was as good as fresh silage and was eaten as well by the livestock. Silage put up in an airtight silo will keep indefinitely.

Hessian Fly

that one summer fallow is good for two crops and has proved it very successfully the last six years.

In the early spring he either disks his land to be fallowed or plows it very shallow to kill the early weeds and then about the time the second crop early in June, he plows it about 6 or 7 inches deep. After this if the weeds start he cultivates the ground with a common shovel cultivator and the ground is left in small ridges and does not blow. About September 10 or 12

Hessian Fly

The Hessian fly has caused considerable damage to the volunteer and early sown wheat as far west as the western edge of Trego county this year and there is enough infestation in all of this section to cause very serious dam-age another year, if nothing is done to

In order to prevent Hessian fly in-jury all land should be plowed or listed early as it has been shown that in early plowed land about one out of 20 of the flies emerge that would emerge if land was not plowed. In the fall seeding should be delayed until after the fly-free date, which for Northwestern Kansas is October 2. By plowing under the stubble and sow-ing late the fly can be controlled until ing late the fly can be controlled until it finally will be killed out in this sec-

Successful Wheat Farming

One of our wheat growers, C. P. Schnellbacher, of Colby, Thomas county, says that he never has had a failure of wheat during the last six years that he has been farming for himself and has averaged about 800 acres of wheat every year. Mr. Schnellbacher raises two crops

of wheat every three years by practicing a rotation of fallow one year, wheat on fallow the next year and then one crop of stubble in wheat, then back to a fallow. By this method

mot blow. About September 10 or 12 Mr. Schnellbacher begins to sow his wheat and usually gets a good growth for winter pasture. If the growth is light he does not pasture as he believes that it does not hurt to pasture a heavy growth in the winter, but that it does damage to pasture a light

Mr. Schnellbacher believes that un-Mr. Schnellbacher believes that unless a farmer is fixed so that he can follow immediately behind the header with a plow that plowing after harvest is not a paying proposition in Thomas county. Following this method he has averaged about 12,000 bushels of wheat every year for the last six years and he says his big crop was in 1919, when he raised about 35 bushels an acre on his fallow land.

Concerning Grasshoppers

All of Northwestern Kansas is rais-All of Northwestern Kansas is raising a very vigorous crop of young grasshoppers this year and every farmer must keep close watch or he will have a serious time this fall with his row crops as well as with the wheat at seeding time. They may even get so bad that they will do considerable damage to the wheat before harvest as they did last year when they ate off the heads of the wheat.

Every farmer should have a supply of the material on hand to make the then back to a fallow. By this method poisoned bran mash, and he should use he has 400 acres of fallow, 400 acres if whenever necessary. It is 100 per of wheat on fallow and 400 acres of cent effective when properly prepared wheat on stubble each year. He says and used in the right way.

Financial News for Farmers

BY R. M. CLARK

Answer Puzzle—Get Big Cash Prize

Names of Eight School Books Are Hidden in This Picture

Can you answer this puzzle? Here's one that will bring back your school days. You should be familiar with these books, having studied your lessons from them. Can you name them? Take your time in solving the puzzle—be sure you are right. Then mail in your solution. \$500.00 in gold to be given. Participate in this big cash distribution. Your solution must be mailed AT ONCE to the address below.

PUZZLE MAN, Dept. 900, Topeka, Kansas

WHILE the credit strain continues unabated, the Federal Reserve Board sees a wholesale condition in that high interest rates have curbed a great deal of speculation and cut down expansion. The New York Stock Exchange had a turnover of 9,634,800 shares last month, the smallest June business since 1914. Call money running from 7 to 12 per cent, and commercial paper rates at 8 and 8½ per cent in New York cut 7 down trading. Normally when rates raise in New York every banker in the country tries to profit by it, but now steel workers. Should a strike occur, the mills are in a position to sit back and take it easy while the railroads slowly carry away their huge accumulations of steel.

A Federal grand jury in New York has indicted four oil companies, 10 brokerage firms and 50 individuals on charges of using the mails to defraud in selling alleged fake stocks. Certain firms, it is charged, bought shares at by circularizing them. Another timeworn method was to pay back a part of the sucker's money in dividends. In country tries to profit by it, but now with all the banks having their hands full with home business they cannot finance New York and the stock exchange as formerly.

higher in the fall and that shoes and and the methods used are true. a few other commodities will be permanently lower. The American Woolen Company, which has been run-ning its mills only three days a week will close several of its larger mills indefinitely July 10. Cancellation of copy of Kansas Farmer and Mail and orders by merchants and curtailing of Breeze. You believe in the policies of demand are given as the reasons.

There are, however, no over large stocks of clothing and it is not expected that prices in clothing will drop at all. Closing of the mills will keep them up to the high level. The wool says the paper and mail and Breeze the paper. Send us the names and addresses of eight or more of your friends who are not now readers of the manual prices. The wool says the paper and mail and Breeze and reasons.

Kansas Farmer and Mail and Breeze the paper. Send us the names and addresses of eight or more of your friends who are not now readers of the paper. Send us the names and addresses of eight or more of your friends who are not now readers of the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send the paper. Send us the names and addresses of eight or more of your friends would, too, if they could send they are the paper. Send us the names and addresses of eight or more of your friends would the paper. and leather markets continue in a demoralized condition.

Steel Mills at Full Capacity

With 2 million tons of steel piled up in their yards the steel mills' policy well; there is a in working close up to capacity, althofor better seed. there was no possibility of relief for the car shortage, is now seen in the outbreak of fresh labor troubles among seen to an encouraging extent.

charges of using the mans to derrand in selling alleged fake stocks. Certain firms, it is charged, bought shares at 7 cents and sold them for \$2 and \$3 by circularizing them. Another time-worn method was to pay back a part of the sucker's money in dividends. In Kansas the promoters of various kinds of doubtful securities are harvesting with all the banks having their hands full with home business they cannot of doubtful securities are harvesting of doubtful securities are harvesting millions by personal solicitation, backed by various plausible recommendations for this or that stock. Apparently the Kansas Blue Sky law is leaking badly, if reports that come to bankers that prices for food will be me of some of the stocks being sold and the methods used are true.

How Many Friends?

We know you have many friends who would be very glad to receive a sample Kansas Farmer and Mail and Breezefriends who are not now readers of Kansas Farmer and Mail and Breeze and we will not only send the copies free but we will send you a clutch pencil for your trouble.

Field selection of corn and kafir pays well; there is a great need in Kansas

Sheep farming is developing in Kan-

Kansas Farm News Notes

PRAIRIE DOGS in a period of seven months have taken almost complete possession of a 60-acre pasture belonging to Joseph Henry of Saline county. These pests were practically destroyed as a result of a vignaling compaign conducted. orous poisoning campaign conducted by the Kansas Experiment station at Manhattan several years ago, but a few remained and they are spreading rapidly. The experiment station supplies the poison at cost.

Many Families to Finney

More than a hundred families have moved into the beet sugar district of Finney county this year, according to a report of the colonization department of the Santa Fe railroad. It is expected that these families will engage in growing sugar beets.

New Sorghum Sirup Plant

A complete steam evaporating sorghum sirup plant has been purchased by A. M. Bates and Fred Hamilton of Downs, Kan. These men expect to start the new industry in the fall when the sorghum crop is ready to be manufactured into sirup. The concern will be known as the Downs Sirup Com-

Wheat in Northwest Kansas

Northwest Kansas never has had a more favorable season than the pres-ent. The rain of three weeks ago, which extended over several counties, came just at the right time to insure the filling of the wheat and barley.

Last week a heavy rain fell over
Thomas, Rawlins and Cheyenne counties. On the fields of listed crops the
furrows caught all the water that fell
and the corn. cane faterite and other and the corn, cane, feterita and other sorghum feed crops are in fine shape to make rapid growth.

Holsteins to Cloud County

Fifty registered Holstein cows and a herd bull are to be bought in Minnesota by a purchasing committee of the Cloud County Holstein Friesian com-pany during August. These will constitute the first unit to be placed by this company, which is organized on the same plan as similar companies which have placed cows in Lyon and Bourbon counties. Another unit will be purchased later in the fall and a third unit, for which the money has already been subscribed, will be placed in the county next spring.

High School Uses Sale Pavilion

This year's graduating class of the Atwood high school held its commencement exercises in the livestock sale pavilion built at a cost of \$20,000 by the cattle breeders and business men of that section. It has an auditorium with seats arranged in a half circle in amphitheatre fashion. The stage is of ample size for such events. This is one of the best and most convenient buildings of its kind in Kansas and while built mainly as a place in which to sell purebred livestock, is admirably adapted to holding public meetings of various kinds.

Herd Makes Good Average

An average of 1,045 pounds of milk and 55 pounds of butterfat was made for the month of May by the 19 cows of the A. B. Wilcox herd in the Shaw-nee County Cow Testing association. This is the highest herd average in the association for the month. Mr. Wilcox formerly lived in Dickinson county and helped organize the first testing assoin the state. conducted there for several years be-

Cream Brings Steady Income

and shipped about the same amount. "I can make more money milking cows than farming," said a tenant farmer one day last week as he pocketed a check for \$7.25 which he said represented the work of two days in milking 12 cows getting nothing but buffalo grass. B. Straughn, another farmer delivering cream the same day, expressed himself strongly in favor of expressed himself strongly in favor of milking a few cows as a sure and safe method of bringing in some money every week in the year.

New Vocational Director

C. V. Williams, formerly in charge of the Federal vocational training in the western division with headquarters at Denver has been appointed to succeed H. L. Kent as state vocational training director. Mr. Kent resigned two months ago to become superintendent of the Fort Hays Branch Experi-ment station. The state board of edu-cation has decided to establish headquarters for the vocational training work of the state superintendent's of-fice at the Kansas State Agricultural college in Manhattan. The state and the Federal Government share equally in extending aid to Kansas high schools giving vocational training in agricul-ture and home economics. Kansas received \$40,000 from the Federal Government in the fiscal year just ended.

Good Field for Veterinarians

BY DR. R. R. DYKSTRA

At this time of the year, when a large number of boys interested in live-stock have just graduated from the high schools of the state, many of them have not yet made up their minds as to the college course that they may wish to pursue next fall. This same question arises every year, and in the past has been settled in many instances by selecting a course in veterinary medicine. It is not the intention of all students enrolling in the veterinary course to practice veterinary medicine, but because they believe that such a course will be of greater value to them in the raising of livestock than any-thing else that they can select.

Veterinary medicine has advanced so rapidly the last few years that those not directly interested in it do not have a very clear understanding of the various phases of this important branch of both agriculture and medicine. In former years, practically the only outlet for the veterinarian's activities consisted in the treatment sick animals. At the present time this is still true in a measure, but many other branches are equally as impor-

A good deal of attention is paid to the prevention of disease in animals. This is exemplified in the very extensive vaccination against a good many diseases such as hog cholera, swine plague, blackleg, anthrax, hemorrhagic septicemia, and various other diseases. Preventive medicine has opened a big field for the veterinarian, not only in the application of vaccines, but also in their manufacture, which is witnessed by the very large and extensive establishments that have sprung up in various parts of the United States for the exclusive manufacture of veterinary vaccines. These establishments employ large number of graduate veterinarians at salaries ranging from \$2,000 to \$5,000 a year.

Many Inspectors Needed

There are but few persons in the first testing asso- United States to whose attention the Dickinson county fact is brought that practically every has become one of the leading dairy pound of meat and meat products dis-communities of the state and much of tributed in the United States has been its progress can be attributed to the subjected to veterinary inspection. The testing association work which was Government regulations controlling inconducted there for several years be-fore any other associations were or-ganized. Shawnee county now has a strong and active testing association. Inspected by a graduate veterinarian Miss Louise Krigbaum is the tester. and has been shown to be free from disease detrimental to human health. The United States Bureau of Animal During June Charles L. Zoller of Goodland purchased 410 cans of cream for which he paid more than \$5,000. The checks were made out the day the cream was delivered. The Equity Union Business association purchased

the big animal plagues of the country, notably, Southern cattle fever, tuberculosis, hog cholera, and mange. Work of this character appeals to a good many young men because it gives them an opportunity to engage in scientific work and at the same time see different parts of the country. A good deal of it is outdoor work, which is, in the minds of many, an added attraction.

Some of the students in veterinary medicine attending the Kansas State Agricultural college have become interested in military affairs and after graduating enter the army. Recent legislation has advanced the rank of the veterinarian in the army considerably, so that the army veterinarian after a certain length of service is eligible to the rank of colonel. This is going to be an added inducement for many young men to enter the army.

Other Duties

The graduate veterinarian also is being called upon to act as meat and milk inspector for many of the more progressive towns in Kansas. There is no question in my mind but that in the course of time it will be found advisable to establish the office of county veterinarian. The livestock of the state has become so very valuable that to neglect it is to invite disaster. In 1919 the total value of livestock in the state of Kansas was almost 350 million dollars and in the United States in 1916 the estimated value was over 6½ billion dollars. To conserve the health of this immore investment is the duty of this immense investment is the duty of the veterinarian. Livestock owners are calling upon the veterinarian more and more every year as the value of their animals increases, and apparently the demand for the trained and qualified veterinarian has only begun.
On account of the bright future and

the immense opportunities for usefulness, or for those young men that desire to know more about livestock, the state veterinary colleges are attracting many young men. This also has been true of the division of veterinary medicine of the Kansas State Agricultural college, and the prospects are that a large number of students will be enrolled in that division at the opening of the school year in September, 1920. A descriptive announcement of the veterinary curriculum may be had by applying to the Dean of the Division of Veterinary Medicine, Manhattan, Kan.



JUL 13 1920

Healthy Vegetables

The U.S. Department of Agriculture recommends that you rid your seeds and soil of infection before planting by using

-ORMALDEHYDE The Farmer's Friend

Prevents potato scab and black-leg diseases that attack beets and other vegetables. Guards against onion rot, smut and smudges and cucumber root rot. Prevents mould in celery and lettuce, parsnips and other covered seeds when applied to the beds before planting. Buy Formaldehyde—of the Perth Amboy Chemical Works' Laboratories—at your dealer. Big book oratories—at your dealer. Big book giving full directions for scientific seed treatment, free upon request.

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Buddy Again Meets the Dude Neighbor- for about a Minute and Learns Something of the Beauties of Nature and Other Things



Among Glorado Farmers

ern Colorado. This movement, which is especially evident around Lamar, has done much to increase the profits in farming, and it has great possibilities for growth. It is evident that a close personal study is needed by everyone of the fundamentals of sucress which have been demonstrated by the leading dairymen.

Care of Small Tools

A farmer who had difficulty keeping track of small tools set aside a section of his implement shed for a tool-room and work-shop, and required that every man, on returning from a job, drive thru the doorway of the shed and deposit the tools before unhitching. Bince it was as easy to drive thru this door as to enter the yard by other means, the men always were willing to abide by this rule and since a place was provided for every tool, they had further inducement to put things away.

Rusting of tools is prevented by this owner. He has tacked corrugated card-board on the backs of the cabinets and racks where tools are kept. This is soaked with oil and never allowed completely to dry out. By keeping the tardboard well oiled he absolutely prevents rusting of the tools hung

For a Beautiful Country

Better planning is needed around the homes of Colorado if the farms are to homes of Colorado it the farms are to have an appearance which will lend the greatest attractiveness to the open country. Visitors frequently complain that the producers of this state, es-pecially on the dry land farms, do not pay so much attention to the surround-ings of the homes as they should. De-mits come evident troubles in home ings of the homes as they should. Despite some evident troubles in home plantings under these conditions, it is evident that there is much justice in this complaint. The following extract from the opinions of a farmer writing in a recent issue of the Michigan Farmer are well worth considering:

Farmer are well worth considering:

The beauty of the farm in large part depends on what is in the hearts of the man and woman who make it their home. Beauty of thought, beauty of planning and beauty of doing cannot but make the farm home beautiful. For beauty comes from the heart where the issues of life are born. The character of the occupants may be learned from the premises quite as accurately as from association or from the printed page, and if that life be charming or sturdy these qualidies will be everywhere evident.

When the thinking is right, there will be well-kept buildings, not so much because of the money invested in them as on account of the little touches here and there that keep whings looking well. A fresh coat of paint, which the farmer can buy fine paints all ready to spread, as weekly trimming of the yard about the house, and a minute or two spent in training a few vines up the side of the porch are all helps in obtaining a beautiful farm.

Then, too, the wife in the house may domany things that will tend in the same

the porch are all helps in obtaining a beautiful farm.

Then, too, the wife in the house may do many things that will tend in the same direction. The curtains and the shades at the windows tell their story of the thought back of them. A few pretty plants in the sard, with a flower or two in a jar on the porch; walks clean and neat, window glass free from dust, these all speak well for the beauty of heart of the one who is behind the pleasant service.

But, best of all, beauty of heart shines out and makes the home beautiful in the kindly fiving of those who love the farm best. Love counts for more than paint or any work of the hand; for love shows where the heart so not counter radiant with beauty.

Sheep Production in Colorado

Equipment for raising sheep on Colo-rado farms need not be expensive. Little housing is required and the main need is for fencing and pastures of sufficient number and size to allow frequent changing of flocks to fresh ground to insure health. Sheds are necessary to furnish protection from storms, the no special provisions are needed for warmth. Dryness, good ventilation, and freedom from drafts are the first requisites of buildings for sheep. Convenience in feeding and shepherding must also be held in mind in locating and planning such buildings

Small flocks can be cared for in sections of barns having stabling or feed storage for other stock, but with a flock of the storage converge huildflock of, say, 100 ewes, separate buildings are desirable. The interior arrangement of these buildings should be such as the same of these buildings should be such as the same of these same of these same of the such as to require a minimum of labor and the least possible moving of the ewes in doing the feeding and caring

THE growth in dairy farming is for them during the lambing season. one of the most satisfactory A building of this type also can be things in the agriculture of East-things in the East-things in in the regular farm flock. A good sup-ply of feed racks and grain troughs can be provided at small expense and will save labor and prevent waste of

Carelessness with Matches

All matches are dangerous from a fire standpoint. The ordinary "parlor" matches take fire at a low temperature and can be lighted in many ways. and can be lighted in many ways. They sometimes fall to the floor unnoticed and are lighted by being stepped upon. When one is being scratched part of the flaming head may fly off into some inflammable material. Children are fond of playing with matches and do not realize the danger connected with them; even bables soon learn by imitation to strike them. Match holders should always be placed well out of reach of the younger members of the family. Many fires are started by matches carethem. Match holders should always be placed well out of reach of the younger members of the family. Many this is one of the most encouraging fires are started by matches caretlessly thrown down while they are still culture of the Middle West.

in flame or before the stick has ceased to glow.

At all places in the house where

to glow.
At all places in the house where at all places in the house where matches usually are struck a fireproof receptacle should be provided for the burned matches, and this should be emptied frequently. Smoking or striking matches in the barns or stable should never be allowed. Nor should hired hands or others be permitted to carry matches loose in their pockets.

carry matches loose in their pockets. If the carrying of matches is necessary, insist upon the use of a good metal match safe; this will prevent single matches being pulled from the pocket accidentally

pocket accidentally.

The double-dipped matches which have come upon the market in recent years (those with heads of two colors) are much safer than the older kind, for they will not light except when scratched on the small tip, they are very unlikely to light when stepped upon, and the heads do not fly readily. But the least dangerous matches are those which will not light unless they are scratched upon the how which conare scratched upon the box which contains them. The manufacture and sale of single-dipped matches is recognized as undesirable by some states, which have laws forbidding it.

Hotel Kupper

Kansas City, Missouri

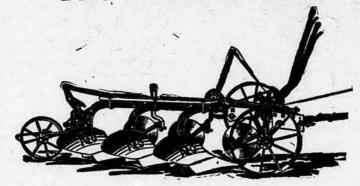
The hotel of quality and refinement for yourself, -wife or family when visiting the city.

EUROPEAN PLAN—\$1.50 to \$4 per Day Centrally Located in the Shopping District Automatic sprinkler system recently installed — making hotel thoroughly fireproof.

WALTER S. MARS, Manager

"The Little Genius"

333333



A Name to Conjure With

HIS PLOW was built, tried in the field, and then christened. Hence the name, "Little Genius." No farm implement was ever more aptly named. And no other plow ever gained the success and popularity attained by the Pao Little Genius Power-Lift Tractor Plow.

A "One-Man" Outfit

The Little Genius is controlled by the tractor operator. The plow has a power-lift mechanism, and the bottoms are raised and lowered by means of one rope. The tractor and plow comprise a one-man outfit.

Lives Up to Its Reputation

Praises given this famous plow continue to resound in every section of the country. But the Little Genius is here to back up any statements. It is a model of mechanical construction, noted for simplicity of design, great strength, and the ease and accuracy of its work.

> o and Three Furrow 12 or 14-inch Bottoms.

> > Four Furrow 10 or 14-inch Bottoms.

Ask the International Dealer for Catalog on "Peo Light Draft Plows."

The making of a plow involves several fundamental principles: Design, Simplicity, Strength, Ease of Operation, and Economy. All of these will be found in the old

Light Draft Plows

These plows not only have behind them a long and honorable record - over three-quarters of a century — but their worth and reputation has resulted in the development of a plow factory that ranks in size with the three or four largest in the country.

It was this record that induced the International Harvester Company, in 1919, to purchase the immense Peo plow factory at Canton, Illinois, and add its product to their other lines of farmoperating equipment.

International Service

Remember that when you buy Pao Light Draft Plows, you are not only getting the best plows made, but you are also arranging for the benefits of International Service. Every one of the 92 International Branch Houses and every one of the thousands of International Dealers in the United States operates a Service Station for your benefit.

It is a Service that is efficient,



INTERNATIONAL HARVESTER COMPANY

CHICAGO

OF AMERICA

With the Homemakers

Stella Gertrude Nash

If You Wish to Get Full Benefit From Sleep Try the Porch

or part of it may just as well serve the purpose of a sleeping porch, too? It would be almost impossible for us to overestimate the benefits of our sleeping porch which are the property from an ordinary parch. It evolved from an ordinary porch. I wish everyone might enjoy some sort of outdoor sleeping even the it be nothing better than a hay frame which makes a much better sleeping place than some bedrooms.

Three summers ago we tried sleeping in the house for a month or so but since we had a large south porch 36 by 9 feet and several feet up from the ground, we thought how foolish we were to suffer from the heat when we might just as well be comfortable by putting an extra bed on the porch and purchasing some canvas to keep out the rain. Altho our rooms are larger and better ventilated than those in many homes, the house seemed stifling after we had slept on our porch for

a few nights. The first summer our porch lacked the ceiling and the drop siding but that did not in the least interfere with our enjoyment of it. Our canvas curtains which are excellent protection against wind and rain cost us only \$4.75 then, but would probably cost more now. We ran a rather heavy wire thru the upper hem of the curtains and tacked them at the top to the frame work of the porch. Then we planed off some 2 by 4's and made two neat poles 1% inches in diameter which we put thru the lower hems of the curtains, thereby weighting them down and keeping them smooth. We stretched a heavy who smooth. We stretched a heavy wire below the canvas and fastened strips of carpet to it to keep out cold and rain. To keep the curtain poles from annoying us by hitting against the porch on windy nights we tie them se-

curely to the posts.

The first summer we slept on our porch until almost Thanksgiving and last winter we used it until Christmas and then moved in only because my husband had toothache. By next win-ter we expect to make it warmer so By next winthat we may use it on the coldest nights. Except when the weather is very cold our little girl takes her nap

the porch. Since the porch floor is cement it is very easily kept clean. We can attach our 75 foot hose to a force pump when we wish to scrub or cool the porch. In cold weather we spread

rugs on the floor. Perhaps one of the greatest benefits we derive from our sleeping porch is that when we get up in the morning we feel really rested, no matter how tired we were when we went to bed. The outdoor air is so cool and refreshing that we are lulled to sleep almost as soon as we hit the pillow, whereas many of us know what it is to lie awake for hours in a hot stuffy room, rolling and tossing in a vain effort to go to sleep. We never have a cold when we sleep on our porch. Sleep-ing on a porch not only aids greatly in warding off disease but also in curing those already contracted.

Mrs. George L. Glenn.

Douglas, Co., Kansas.

Is Yours An Ox-Cart School?

That Kansas ranks twenty-seventh in the relative standing of its schools compared with the schools of the United States is indicative that the state is maintaining an ox-cart school in an airplane age. One cannot but marvel at the inconsistency of man when he sees him riding to town in an automobile of the latest model, lively a consistency of the latest model, lively a consistency in the latest model.

THY SHOULD a porch be used It has not. It did very well for a out and husband advised against buy-apples and pears dry much more only in the day time when all pioneer people when the curriculum ing more. I had long thought of the quickly and thoroly if sliced very thin or part of it may just as well was made up largely of the "three R's," advertised evaporators, but had not as for pies. I often found a few peas but as the country has been settled and civilization has advanced, new subjects have been added, until now in addition to readin', 'ritin' and 'rithmetic, we have 13 subjects for one teacher to teach in the same length of time that she had formely for the simple "three R" curriculum.

tions each and devide the results into 360 minutes which constitute a school day in order to see that barely 10 minutes is all the time the teacher has for a recitation.

Plainly some-thing needs to be done. In the face the fact that 37½ per cent of the one-teacher schools have 10 or fewer pupils

and that a teacher shortage is at framework were covered with mosquito hand, it would seem as tho fewer and bar and the door and top with screen. better schools would be the remedy.

Many times when one has a batch In other words consolidation seems to be the only chance for the country boy and girl to have a school equal to those of their city cousins.

Jennie S. Owen.

Lyon Co., Kansas.

Made Her Own Drier

It was two years ago that I first the food is dried there.

used my homemade drier. I had a good garden that year, and canned both fruit and vegetables until my cans ran other products that year. I found that

ing more. I had long thought of the advertised evaporators, but had not felt able to afford one. I had seen descriptions of homemade ones and sent for a bulletin from the United States Department of Agriculture, Washing-ton, D. C., but husband was too busy to make one.

With fruit and vegetables going to waste, I grew desperate. . I studied the One has only to multiply nine grades different plans and finally settled upon y four recita-

a plan of my own, using what I thought the best and evenings. Cleats across each side of the framework served to hold the shallow trays. These were very light frames with flour sacks stretched across the bottom and tacked fast. The

Glenn Home Showing Sleeping Porch. three sides of the

> of something drying, cloudy or rainy weather sets in, often causing the product to sour before it is sufficiently dry. To avoid such loss husband fastened strong wire to each upper corner of the drier, bringing the wire to-gether at a central point which fas-tened on a hook in the ceiling above

vines that were just right for the table but there was not enough of them for a meal. If I waited until the next planting was large enough for use, the first would be too hard. If dried, they could be put away and more added as I had them, the result being several meals of peas which would otherwise have been wasted. I found that peas dry quickly in the pods, are easily cared for and can be

thought the best shelled easily after drying.

points of all kinds.

Husband then year and frost came before many of built my drier of them had matured. We pulled the scraps at noons vines and stored them in the smoke craps at noons. house. Then as we could we picked off the pods, sorting the green from the dry, shelled the green beans and spread them in the drier. Dried and stored away they made many meals that otherwise would have been tost. Drying cabbage was an experiment but the bulletin gave directions which we carefully followed. The cabbage was sliced as for slaw or kraut, then spread thinly on the trays.

Small containers are best for storing these dried materials. I used paste-board boxes and paper sacks. These were stored in lard or cracker cans. If you have a surplus of fruit or vege-tables and do not wish to can them Mrs. Levi Gingrich. all use a drier.

Hodgeman Co., Kansas.

From a Farm in the Hills

One need not be without a fireless cooker of some description. one recently from an old water separator that had been around in the way for several years. The inside compartment is an old cooling pail which another than the cooling pail which are swers the purpose very well. Packing or insulating material for the lower part was of clean wood ashes to render the cooker fire-proof. Waste paper was used for packing about half way up and the collar was cut from a corrugated grocery box. Full directions for making the fireless cooker from materials at hand may be had by sending to the U. S. Department of Agriculture, Washington, D. C., for bulletin No. 771.

It sometimes happens that the men do not get in on time when you have a meal ready. The fireless cooker will keep the main dishes warm for hours. Another advantage of having a fireless cooker is the facility with which you can prepare breakfast if you have placed your cereal in the cooker the night before. It is ready to serve as soon as you get up.

If the pattern of floor oilcloth wears off in spots and it is too good to throw away, paint over with floor paint and follow with a coat of yarnish. Or, the varnish may be omitted if it is polished with floor wax.

Prepared wax in the liquid form is one of the best polishes for automo-11th row—1 d c in the d tr c, * 2 coat and protects the surface from ch, skip 2 sts, d c in next st. Repeat rain, but gives longer life to the finish.

Slatted feed coops with roofs that shed the rain are very convenient for chickens in case of sudden thunder storms. The roofs should be slanted and hinged at one side so that feed may be scattered inside. If the little chicks are taught to come at a certain call, it is an easy matter to get them under shelter when one sees a rain coming.

Colored putty to match the wood-work will fill tack holes where the floor has been covered with a carpet for some time and it is desired to use rugs instead.

The mother of the family needs rest on Sunday and she should plan to have it. I once knew a family who tabooed Sunday visiting, but I fear if every-

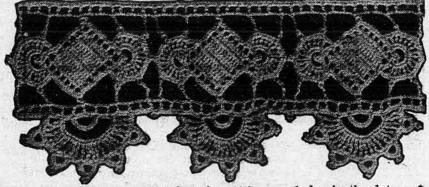


tive for library or piano scarfs if

*1 ch, skip 1 ch, 1 d c in next, repeat ch, s c in middle p, 8 ch, tr c in next from * until there are seven spaces. p, 8 ch, d tr c in next p, 2 ch, repeat Turn, ch 4, d c in 2d d c, * d c over from *.

HIS EDGE is especially attractive for library or piano scarfs if 10th row—* Double treble crochet

(d tr c-thread over hook three times) made with ecru thread. (d tr c—thread over hook three times Chain (ch) 18, 1 double crochet (d c in 1st p, 8 ch, treble crochet (tr cthread over hook once) into 6th ch, thread over hook twice) in next p, 8



the 1 ch. d c in next d c, repeat from * four times, 1 ch, d c in last d c.

4th, 5th, 6th and 7th rows—Turn, 4 from *.
ch, d c in 2d d c, 10 d c in next 10
d c, 1 ch, d c in last d c, turn.

12th
13thc, 1 ch, d c in last d c, turn. 8th row—4 ch, 1 d c in 2d d c, 1 ch

skip 1 d c, d c in next, repeat to end

9th row-* 4 ch, 1 slip stitch (sl st) in 1st ch for picot (p), 2 single crochet (s c) in each of the next 6 spaces (sp), 1 ch, 2 s c in corner sp, 4 ch for p, 2 s c in same corner sp, turn, 9 ch, catch in the 1 ch, turn, 15 s c over the an automobile of the latest model, living in a modern house, dressing in costly fashionable clothing, but still sending his children to the same little box car school house where he learned his A B C's more than a quarter of a century ago.

Not that the one-teacher school has always been deficient and inadequate,

12th row-3 s c in each sp. 13th-Same as 10th row.

14th—Same as 11th row. 15th row—** 3 s c in each of the 1st 2 sp, 1 ch, 3 s c in each of next 2 sp, 1 ch, 3 s c in next sp, 1 ch, 3 s c in next 2 sp, turn, 7 ch, 1 s c in the 1 ch, turn, 13 s c over the 7 ch, 3 s c in next sp, turn, 17 ch, 1 s c in the 1 ch, turn, 21 s c over the 17 ch, 3 s c in next 2 sp, turn, 1 ch, 1 tr c in each s c 9 ch, 2 s c in next sp, turn, 1 ch, 1 d c with 1 ch between each tr c, 1 ch, 1 one should take such a stand there would be very little visiting in the country. The housewife can, however, reduce her work on Sunday very considerably by serving more simple meals or doing most of the cooking on Sat-

When basting long seams try using the presser foot of the machine to hold the goods in place. This relieves one of the stooping occasioned by pinning the work to the knee. The foot may be lifted and the goods slid along as the work progresses.

Here is a way to use onlons and eggs and more satisfied tastes much better than it sounds:

Cut several onlons into thin slices and fry in meat drippings until tender.
Just before removing from the stove, break 5 or 6 eggs into the frying pan add salt and pepper and scramble all together until the eggs are set, then pour out on a hot platter and serve at

Farm papers often are useful for reference for several years but when they are allowed to accumulate in the living rooms they cause much needless picking up. If they are tied in bundles according to their dates, with labels for every bundle and a card index in-dicating the numbers in which articles of special interest may be found, it is not difficult to turn to any article desired without disturbing the papers in other bundles. An old washstand or an out-of-date bookcase would make a good cabinet for holding files of such

When plain sliced tomatoes lose their charm, try serving them with good salad dressing or oil and vinegar. Sliced cucumbers with salt, pepper and vinegar and a few drops of olive oil often agree with stomachs that balk at plain sliced cucumbers and vinegar.

Mrs. Clara Smith.

Chase Co., Kansas.

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For Your New Voile Dress

9700-Ladies' and Misses' One-Piece Dress. Very charming in its simplicity is this gown of sheer figured voile, which is ruffled about the neck and shirred over the hips for fulness. Sizes 16 years, 36, 38 and 40 inches bust measure.

9720-Ladies' Dressing Sacque or Blouse. Very cool for summer mornings is a flowered lawn sacque like this. It is a pretty design for the sep-



arate colored blouses, also. The three-piece peplum is joined at the regulation waistline without fullness. 36, 38, 40, 42 and 44 inches bust meas-

9461—Child's Rompers. The waist of this garment is cut in one with the sleeves, and the bloomers are in two

leces. Sizes 1, 2 and 4 years.

These patterns may be ordered from he Pattern Department of the Kansas farmer and Mail and Breeze, Topeka, Kan. Price 12 cents each. State size nd number of pattern.

Women's Service Corner

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

Grow Tulips From Bulbs

Will the seed in the tulip seed pods grow? If so, when should they be planted?—Mrs. J. J. H.

It is not desirable to try to raise tulips from seed. It may be done but it usually takes a long time to get fair sized bulbs and it is much cheaper and more satisfactory to buy bulbs .-

Oil or Wax Linoleum

What is the best treatment to give line-leum to make it wear? Is it a good idea to oil or wax it? If so, what kind should be used?—T. C. S.

The pattern of oilcloth linoleum will wear much longer if the linoleum is varnished. This should be done about three times a year. The better grades of linoleum which have solid patterns

this treatment makes the linoleum waterproof. Ordinary floor wax should

Readings for Young Felks

Where can I get a reading for a girl of 12 or 15 to give? I would like something humorous.—Young Reador.

The Universal Standard Speaker, published by the Winson Publishing Co., of Philadelphia, Pa., contains pieces for all occasions. I am sure you could find the kind of a reading you desire in it. If you do not care to send to Philadelphia for the book you can get it from the Zercher Book and Stationery Co., 521 Kansas Ave., Topeka, Kan. The price of this book is \$1.50.

Ways to Make Pin Money

Can you suggest some way for me to make pin money?—A Farm Girl.

There are many ways that a farm girl can make money. Raising pure-bred chickens always proves profit-able, if the chickens are properly cared for and fed. If you have an incubator, are preserved if they are waxed, as sell baby chicks. If not, sell eggs for

\$120000 Balino Profit

Admiral Hay Press

our trial offer—each or time.

ADMIRAL HAY PRESS COMPANY

Kanses City, M



—It Speaks for Itself

There is no angle from which you may look at the TULSA that does not impress you with its beauty of line, staunchness of construction and appearance of expensive quality-rarely found in a car of such moderate price.

But the TULSA'S real value is more than paint deep. You can not fully appreciate its sturdy build, the reliability of its STAN-DARD units and the way it performs under the most trying conditions, unless you give it a close inspection.

Take a ride in it—drive it—then form your own opinion. The TULSA will speak for itself in beauty, comfort, performance, endurance and economy in operation and upkeep.

> Write for the Tulsa Catalog and Name of Your Nearest Dealer

TULSA AUTO MFG. CO., TULSA, OKLA.





Dance to the music of famous bands and orchestras -on the Victrola

The very latest and most tuneful dance numbers, played by musicians who are past masters in the art of delighting dance lovers. All the dash and sparkle and rhythm that make dance music so entrancing. And always ready on the Victrola!

Hear the newest dance music at any Victor dealer's. Victrolas \$25 to \$1500. Write to us for catalogs and name of nearest Victor

Victor Talking Machine Co.

Camden, New Jersey





WE PAY THE FULL MARKET PRICES ALWAYS

Green Salt Cured Hides (all weights) No. 1. 140 Green Salt Cured Hides (all weights) No. 2. 130 Horse Hides, as to size, No. 1 \$5.00 to \$7.00 Horse Hides, as to size, No. 2 \$4.00 to \$6.00 T. J. BROWN, 126 North Kansas Avenue, TOPEKA, KANSAS

Presidential Campaign Offer Daily and Sunday Capital

\$3.00 From Now Until January 1, 1921

The regular subscription price of The Daily and Sunday Capital is \$7.00 per year. On account of the coming Presidential Election we will send the paper from now until January 1, 1921, for only \$3.00.

You will now want to keep advised of the respective merits of the different Presidential Candidates who are asking your support in the November Election. You will get reliable information from the publisher. vember Election. You will get reliable information from the publisher, United States Senator, Arthur Capper, and our Managing Editor, Charles Sessions, who are not only familiar with National Politics, but will keep Kansas Readers informed politically of Kansas affairs both State and County through the columns of the Capital each day till January 1, 1921. Mail your check-Do it NOW.

DAILY CAPITAL, Dept. 6, Topeka, Kansas.

Enclosed find \$3.00 for which send me The Daily and Sunday Cap-

ital until January 1, 1921.

hatching. And eggs and chickens for food always find a ready market. An ad run in a local newspaper will bring you all the customers you can supply.

Many farm women make their pin money selling cream, butter and cheese. If you live near a town, this would prove exceptionally profitable. Home-canned fruits and vegetables and precommunity or in the town nearest you, community or in the town hearest you, and ask her to advertise your products or fancywork to the club. You might give her a sample of your canned goods or a piece of your fancywork to exhibit to the members. Conditions in your community should suggest several ways in which you might make pin money.

Market for Butterflies

Can you tell me where I might be able to sell butterflies?—A Reader.

If you will write to Prof. George Dean, Kansas State Agricultural Col-lege, Manhattan, Kan., he will tell you of a market for butterflies.

Questions Girls Ask

If a boy asked to take me some place, and I didn't know whether my parents wished me to go, would it be all right for me to tell the boy to ask my parents? What should the conversation be when out riding with a boy? Are girls of 15 and 16 too young to go with the boys?—A Farm Girl.

Ask your parents yourself before romising to go. The conversation promising to go. The conversation shouldn't be any different when out riding than it is at any other time. Talk about things in which you are Talk about things in which you are both interested, your community gatherings, church, books or your pets. Girls of 15 and 16 are too young to go with the boys regularly. It is all right for them to go with a boy to a social gathering in the neighborhood occasionally or to visit some of their friends if they go in a crowd. It is never wise for a girl to go riding with a boy, unless she is well acquainted with him.

Direct Lights Injure Eyes

The kind of lights we use determines The kind of lights we use determines to a large extent the efficiency of our eyes. The efficiency of the eye after 3 hours' work in daylight is about 98 per cent. When an indirect light is used the efficiency is about 97 per cent. But when direct lighting is used this efficiency drops to about 15 per cent. Therefore if you would protect cent. Therefore if you would protect your eyes, select the indirect lighting system when you buy rather than the

The intensity of illumination has little effect when indirect lighting is used, but a very great effect when the source of light is in the field of vision. Ac-cording to Forrest Knapp of the Colorado Agricultural college, the number of indirect lights does not decrease the efficiency to any noticeable degree but when direct lighting is used the effi-ciency drops rapidly with an increase in the number of lighting units.

A Whole Meal on Two Burners

A good big cellar and an oil stove are two of the conveniences I have for lightening summer labor. My oil stove is a three-hole one and I have a one-and a two-hole oven. I find I can put a plain cake on the top shelf of my twohole oven and on the lower a pan of custard and a pan of apples and bake all with the same fire.

I think if women only knew what a fine thing triplicate cooking pans are on the oil stove, few would be without them.

Mrs. N. A. Van Dyke.

Learning From Nature

Sometimes my spirit weary grows
Of tasks that seem unending,
Of cooking, baking, sewing and
Of sweeping, dusting, mending.

And then I take a little walk Into the great outdoors, And watch Dame Nature as she works About her daily chores.

I notice everything she does Brings its reward in season, "Perhaps no human effort's lost," I then begin to reason.

Somehow it rests me just to think
That I am but a part
Of God's great plan, and I go back
With peace inside my heart.
—Velma West Sykes.

Write to the U. S. Department of Agriculture, Washington, D. C., for made directly after dinner.

Farmers' Bulletin 839 "Home Canning by the One-Period Cold-Pack Method."

Jefferson Co., Kansas.

Farm Home News

In enumerating the many advantages of having a straw stack nearby, we failed to mention one that, at present, is of most service. Guests who had canned fruits and vegetables and preserves, jellies or jams always are in slept in the open during their drive demand. If you are handy with the needle or can crochet or knit, you should be able to make spending money should be able to make spending money in this way. Get in touch with the president of a women's club in your president of a women's club in your attrangers with necessary hedding for ness and we have gladly provided strangers with necessary bedding for their straw resting place. So long as mosquitoes do not bother the straw stack will probably serve as a bed during dry weather.

When hay frames are not in use they may be utilized for outdoor sleep-ing purposes. Half a load of hay may be made the substitute for springs and mattress, or springs and straw ticks may be used. It has never seemed advisable to use much good bedding or to undo beds for such temporary sleeping quarters. A few hours spent in out-of-door air are said to repre-sent as much benefit in rest and rebuilding as more spent in the house. Sleeping porches are very desirable.

Chickens, as a rule, do little damage Chickens, as a rule, do little damage in a garden until tomatoes or berries begin to ripen. English sparrows and rabbits are more destructive. We have been wondering if a scheme used by our people in the North could not be read offective in preventing damage. made effective in preventing damage. Some peas were about ready to use, the date was set for the first meal when the grass nearby was mowed. This evidently had served as a screen for the peas and blackbirds were delighted to find them. They ate peas that would have served for many meals. To prevent further damage, the garden manual was consulted. It recommended the use of reflectors. These were tried made effective in preventing damage. the use of reflectors. These were tried with marked success. Mirrors, bright tins, lamp reflectors or other bright objects, dazzling in the sun, could be

It may be due to lack of observation but at no time in the past can we remember seeing so many June bugs in the garden soil. When hoeing, we have found them about 2 inches in the ground and in great numbers. The young chickens know their location by some means and form a circle, all picking for the defenseless bug. These June bugs, we have just learned, are one form of the grub worm so destructive to sod in lawn and pasture.

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Newspaper accounts of big harvest Newspaper accounts of big harvest wages have brought men of all descriptions to help, more or less, with the harvest work. In many instances, there are eight or 10 employed. The help in the kitchen is not so easily obtained. Some families have hunted for days to get help in the house and not always to get help in the house and not always famers can hire only those who will farmers can hire only those who will board themselves. Even under the best conditions, the farm woman has need of good health and good management.

A paper pad hung conveniently in the kitchen with pencil attached is a good place on which to list the things needed. The next trip to town will cause no flurried, hasty efforts to think of wants.

One may sometimes prepare the supper before doing the dinner dishes and wash the dishes used with those of the noon meal. If beef, chicken or veal has been the meat served at dinner and no large pieces are left, it may be broken into small, even sized pieces be broken into small, even sized pieces and made into a loaf or set in gelatine. This, chilled, and sliced is very desirable for supper. Bolled ham may be easily prepared and sliced when cold. It will slice best if it has been cooled under a weight. Large hams in this locality sell for 55° cents a pound. The small picule ham is about half The small picnic ham is about half so much or 29 cents a pound. We can not see that there is that difference in their value. About the cheapest meat, for general use, is the little 8pound picnic ham.

Added to the meat prepared after dinner for the evening meal, one may make potato salad, pickle beets, prepare rice or fruit and so have little to do for supper when the time comes. After the meal fewer dishes are in need of weekling if the preparetions are of washing if the preparations are

Health in the Family

BY DR. CHARLES H. LERRIGO

partment, Kansas Farmer and Mail and Breeze.

Remedy for Leprosy

A letter has been sent me from the authorities at Washington about a new treatment for leprosy. The sender doesn't say why he sent it, but I suspect that he desires me to translate it into the Kansas language for the bene-

fit of the readers of this paper.

A few years ago Kansas had one or two lepers and we were greatly dis-turbed about them. Now we have no lepers at all. But leprosy is not such an unusual disease in the United States. At the last published report Louisiana had 87 lepers, California 39, Texas 33, New York 28 and the total for the United States was 250. In our territories there were very many more, Hawaii having 700 and the Philippine Islands 5,500.

So you see we really are very much interested in leprosy and it is as well to know something about any plan that promises to cure this dreaded malady, which has been regarded as a hopeless and incurable plague since early in the world's history

Doctors of the United States Public Health Service first began to hope that the disease might be cured, from some favorable results obtained from treatment with Chaulmoogra oil.

In order to carry on the work to best advantage they transferred their experiments to Hawaii, where there are a number of leper colonies. L. E. Dean, president of the College of Hawaii, was interested and enlisted the support of the chemical department of the college. By constant experimentation with the Chaulmoogra oil they produced a preparation that could be given without un-pleasant effects, and the lepers came willingly for treatment.

In the course of a year's treatment 48 lepers were so greatly improved that they were paroled from the colony. Eight months have passed since then and they have remained free from disease.

This is splendid news about leprosy. It is also a mighty encouraging thing for medical effort in general. To realize that modern doctors are able to work out a cure for a terrible plague that has existed since Bible days ought to give great encouragement to people who feel that disease is a constant menace to happiness. It encourages the doctors to greater effort and puts to silence the scoffs and sneers of those cheap competitors who are profiting by the discoveries of modern science while jeering at the discoverers.

Questions and Answers

Is it necessary for a little baby to wear wool in very hot weather? Should her feet be covered with wool socks? MRS. J. B.

In hot weather the only clothing needed for a little baby is a diaper and abdominal band which is preferably of wool. Some very nice half wool undershirts are sold that are very light and soft and still engage. light and soft and still answer every purpose. The value of the wool is for its conducting properties and it is not necessary to have a heavy garment. Socks are not needed by a baby in hot weather.

I have been greatly interested in your health talks in the Kansas Farmer and Mail and Breeze and will be grateful for some advice. We have a little child about 2 years old who is bow-legged and being a heavy child it sometimes seems that he is fetting worse. What could be done for him and would it be better to attend to it now or wait until cooler weather comes?

R. W.

Even in a heavy baby bow-legs does not often occur unless the bones are defective—in other words, the child has rachitis or rickets. The condition needs treatment of the condition of the condit treatment at once and a large part of the treatment must be directed to general body building. The child should be examined by a doctor and be given an exact diet prescription, also a prescription for medicine since there several valuable medicines for rickets. The bowing of the legs may call for

TERVICE in this department is some correcting apparatus or it may rendered to all our readers free of be of such a nature that it can be remecharge. Address all inquiries to died by gymnastics. It will not get Charles H. Lerrigo, Health Debetter by waiting, but may get worse. So you should lose no time in giving the little one the best treatment avail-able, which may necessitate a visit to an orthopedic specialist. I know of none nearer to you than Kansas City, but consult your family doctor first.

Fibroid Tumors

Will you please tell me about fibroid tumors? What causes them? Is it important to have them removed at once, for instance from the womb? Do they ever disappear without an operation? My mother, during change of life, had a large, hard lump on one side of her-abdomen which we all thought must be a tumor altho she never would have an examination, but it disappeared as she got over the change. The doctor says I have a fibroid tumor. Would it be possible for it to disappear too? I dread an operation. Would it be possible to control it by dieting? I am 40 years old.

A fibroid tumor is not of the sevieus

and even diminish in size, the I doubt cine.

if they ever disappear. The chief dangers of a fibroid tumor are the following: 1. They may cause excessive hemorrhage; 2. They may grow so large as to be a source of much discom-

fort; 3. They may become malignant.
If you are quite sure that none of
these things will happen in your case
you may delay action until after the change of life in the hope that the annoyance will then cease. Dieting will not control it.

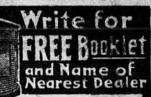
Cure for Acne

I am a girl 16 years old and am bothered with a skin disease. Large pimples come on my face and neck and then they fester. They are very sore and cally. Can you tell me the cure and cause? My brother has the same thing, too. Will you please tell me what will cure him? He is 19.

A READER.

The disease is Acne. It is merely a coincidence that you and your brother both have it, as it is not contagious. It is due to inflammation of the oil glands of the skin, those known as the sebaceous glands. Blackheads very often come at the same time. When all thought must be a tumor altho she never would have an examination, but it disappeared as she got over the change. The doctor says I have a fibroid tumor. Would it be possible for it to disappear too? I dread an operation. Would it be possible to control it by dieting? I am 40 years old.

A fibroid tumor is not of the serious nature of a cancer and does not demand such urgent treatment. I have have along very well thru many years. After along very well thru many years. After the menopause they may cease to grow and even diminish in size, tho I doubt of the same time. When pus forms in the pimples they become quite painful. The disease is quite painful. Th



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Below: Regular John Deere Manure Spreader

THE TRADE



STRAW is valuable plant food. Do you know that a ton of straw contains approximately 10 lbs. of nitrogen, 12 to 16 lbs. of potash and from 6 to 7 lbs.of phosphoric acid-equaling in fertilizing value, an average ton of barnyard manure. It will pay you well to spread straw on the land and turn it under. When you burn straw you burn dollars.

There is another profitable way to utilize straw-use it for top-dressing winter wheat, rye, alfalfa, and other crops that are subject to winter killing. It protects the plants' roots; prevents soil-blowing and prevents winter sleet and freezing from smothering the plants.

It is neither a hard job nor does it require extra help to spreadstraw with the

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With Straw Spreading Attachment

Both manure and straw can be spread perfectly with this machine. One man can put on the straw spreading attachment, load the spreader and spread the straw as heavy or light as desired with no extra help. The operation is simple - set the feed lever, throw the machine in gear, and drive the horses—no fork-ing required—the feed is automatic. In 30 minutes time one man can take off the attachment preparatory

to manure spreading. Bear this in mind, the John Deere as a manure spreader has ordinary spreader because the beater is mounted on the axle, a patented feature.

Its box is low down—extremely easy to load, and the drive wheels are high—a distinct advantage. Its beater is on the axle together with the beater drive and main working parts—they can't get out of line to cause binding, heavy draft and breekers. breakage.

Another thing, the John Deere is the simplest spreader built—this is one of the importantreasons why it gives longer service, costs less to keep in repair, and gives greater satisfaction.

You can't invest in a farm implement that will pay for itself more quickly than a John Deere Spreader with straw Deere as a manure spreader has spreading attachment. See your John advantages you can not get in the Deeredealer at once about this equipment

This Free Booklet will Interest You It tells all about spreadwritten by Dr. W. E. Taylor, a practical farmer who has spent years in experimenting. He tells you facts that may be worth many dollars to you.
The booklet also fully illustrates and describes the John Deere Manure
Spreader and straw spreading attachment. To get this booklet drop a card
to John Deere, Moline, Ill., and ask for Booklet SS-511.

SOUNT DEEP MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

Foodthe Problem of the Hour

THE need for food has the world in its grip. To produce more food we must depend upon gasoline power on the farm to multiply the efficiency of the man-power available.

The following interesting comparison of man-power vs. machine-power, required per acre is illuminating:

Crop					n-Hours y Hand			Man-Hours By Machine		
Barley					64					4.25
Corn					39					7.70
Cotton					168					79
Hay .		•			21		•	•	•	8.45
Oats .					66				•	4.25
Potatoe	S	٠			109	•		•	•	38
Rice.		•			62				•	17
Rye.					63	٠		•	•	4.25
Wheat			,	•	61		•	•	•	4.25

The United States has changed from an agricultural into a semi-industrial nation. Never again will it see the day when 97 percent of its population dwells on farms. Yet the fact remains that the United States must feed itself, and the only way this can be done is through intensive soil cultivation, made possible by automotive machinery.

On the farms of the Middle West the gasoline tractor, truck, and automobile are multiplying the productiveness of man-power, and are doing their part in furnishing an adequate supply of food-stuffs.

Throughout this great section the Standard Oil Company (Indiana) has developed a system of distribution which insures the farmer an adequate supply of gasoline and lubricating oils. This system is based upon huge storage depots, fed from three large modern refineries.

Anticipation of possible difficulties is but one of the many burdens the Standard Oil Company (Indiana) assumes in order that consumers of the Middle West may have their wants supplied.

Standard Oil Company (Indiana)

Chicago, III. 910 So. Michigan Avenue, 2104

For Our Young Readers

Canning Food and Raising Tomatoes are Real Fun BY HETTIE PETERS

I BEGAN TO TAKE an interest in club work when the Anderson county leader wrote asking our teacher if any of her pupils wished to join in any of the club projects. After receiving my parents' permission I trip to Manhattan. I have held the made out my papers and became a championship two years. I wish I made reader came to our school to organize the mother-daughter canning Mamma and I canned 315 quarts of same leader came to our school to organize the mother-daughter canning club which mamma and I both joined. The next day some of us girls went to a neighboring town to see the first canning demonstration given by Miss Wilson of Manhattan and I have been in the canning club ever since.

am too old.

Mamma and I canned 315 quarts of fruits and vegetables last year and 90 quarts of meat. I am ratsing tomatoes a neighboring town to see the first canning demonstration given by Miss Wilson of Manhattan and I have been in the canning club ever since.



Hettle Peters

up my mind I would do better next time. The county agent and home demonstrator helped me a great deal in my club work. I was chosen a member of the canning team which was to go to Wichita in September. I took part in eight demonstrations before going to Wichita and helped in three there. We gave two demonstrations at the fair in Topeka and one at the high school. We did not win anything, but learned much

and had a good time.

The second year two other girls joined the tomato club, but one of them in February.

We had five in our club the next year and had a local leader. We had two meetings at the home of one of the girls and then one at the home of the secretary, where we had ice cream and cake. I had the next meeting at my home and gave the girls all the tomation were the secretary where we had ice cream and cake. I had the next meeting at my home and gave the girls all the tomation were all the cat is blue.

Sisters are 14 and 4 years old. Their names are Laurene and Anemone.

Our pets are a little bantam hen, a dog and a cat. The dog's name is Kete and the cat's Beauty. The dog is brown with a white ring around his neck and the cat is blue.

Alta Vista, Kan. Beryl Orton. home and gave the girls all the tomatoes they could eat. My tomatoes were ripe before those of any of the others, the first ones being ready to pick July 14.

Later we had a meeting at the home of the secretary and a picnic at the creek which runs thru our place. I couldn't be present at this meeting because the secretary and I were helping a neighbor cook for threshers. But we came home after dinner and three carloads of us went around to see all the tomato patches. On the last Sunday in August we had another picnic. Some of the boys went to town and brought back a case of pop and some

We decided to send some tomatoes to Hutchinson to the fair. Only one of the girls besides myself had tomatoes to send. So I sent tomatoes for the other two and what do you think hap-pened? One of the girls for whom I sent tomatoes won the first prize of \$3 and the other won the second, which was \$2, and the girl who sent her own tomatoes won third and a prize of \$1.

I won fourth place and received 50 cents. The girls thought it quite a

the canning club ever since.

I don't remember how many tomatoes I raised that year, but I won fourth place with a prize of \$2. I made

What are the Words?

Can you fill in the missing words, beginning with the second stanza, making the third and sixth lines in each stanza rhyme, and the other lines rhyme with the line following? When you have completed the poem, send your answers to the Puzzle Editor, Kenses Farmer and Mail and Breeze. Kansas Farmer and Mail and Breeze, Topeka, Kan. There will be packages of postcards for the first six boys and girls who send in correct answers.

Lilybell's Tea Party. Out in the shade of an apple tree, Lilybell's entertaining at tea. Can you guess what she's having for three? It's easy as easy can be.

There's marshmallow ---Which mother did bake,
There's --- and ---- and rice,
There's a pot of ---,
And country ham
And a bowl of frozen -----

Solution June 26 Puzzle - Can you place these correctly? Gobble—turkey, quack—duck, neigh—horse, song—bird, bleat—lamb, whoop—Indian, hum—bee, cry—baby, croak—frog, cackle—hen, rattle—snake, bark—dog. Prize winners are: Lois Greenleaf, Mound City, Kan.; Mabel Smith, Monument, Kan.; Johnnie Schweir, Belvue, Kan.; Glenu Paronto, Morganville, Kan.; Francis Frank, Manhattan, Kan.; Mildred Ploughe, Hutchinson, Kan. place these correctly? Gobble-turkey,

Beauty is a Blue Cat

I am 10 years old and will be in the soon dropped out. I worked hard and seventh grade this fall. I received the mamma and papa helped me. I won blue ribbon in spelling for the sixth first place and the other girl won grade last year. I have one brother fourth. My net profit was \$24.90. My and two sisters. My brother is 8 years prize was \$4 and a trip to Manhattan old and his name is Kermit. My two in February.

Sisters are 14 and 4 years old. Their

Write to the U.S. Department of Agriculture, Washington, D.C., for Farmers' Bulletin 984 "Farm and Home Drying of Fruits and Vege-tables."

Can You Write Letters?

This department is for our oung readers. We're a big fam-. ily, but your editor likes to hear from you often. We want you to write briefly of your experiences, adventures and interesting happenings in your neighborhood. Or tell of your pets, favorite flowers, what you have noticed about the birds, or an interesting picnic or birds, or an interesting picnic or fishing trip. The most interest-ing letters will be printed and to the writers of the best ones prizes will be given. Address let-ters to the Young Folks' Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Tom McNeal's Answers

Keeping Up Fences

Keeping Up Fences

1. A owns 1 mile of fence which divides his land from a school section which B his land from a school section which B his land from a school section which B fents. Should not B buy or build ½ mile of this and keep that half up? Is B obliged to build fence all around this section, one side of this section abutting on laid out yoad. Whose duty is it to have fences and gates removed from across such road and can such obstructions be torn down without previous notice to the people who pasture such ground?

2. Are not the railroads obliged to keep of build cattle-guards where the roads go that?

ibru?

If the county commissioners neglect to clear up obstructions and put the road in a safe and passable condition to whom abould the matter be referred? The road was surveyed, laid out and declared open two years ago, and about haif put in shape for travel, but nothing except promises have been made in the last year, so I am put to great inconvenience to reach a traveled

4. Is a public or private individual permitted to let cattle run loose on such a read?

COLORADO SUBSCRIBER.

I do not happen to have the statutes of Colorado at hand. It is possible that a different rule may apply in Colorado in regard to the building of sences from that which prevails in Kansas. Unless the law is different in Colorado from the law in Kansas, however, B, as a renter, would not be obliged to build the fence.

In regard to the removal of fences which obstruct public roads, there

may again be some difference in the statutes of Kansas and Colorado. In Kansas, if the road is a county road, it will be the duty of the county commissioners to order the obstruction removed. If not a county road, it would moved. If not a county road, it would be the duty of the township highway commissioners to see that the obstructions are removed.

If a proper legal notice is given for the opening of a road, unless there is some statutory provision to the contrary, it would become the duty of the person to immediately remove the obstruction, and if he did not, anyone might remove it without giving him any further notice.

Railroads in Kansas, and I presume

m Colorado, are required to put in cattle-guards on crossings.

In this state, cattle are permitted to graze on public highways. The owners of such cattle, however, would he requisible for any damage they might sponsible for any damage they might commit by breaking thru fences into privately owned land, and if the cattle themselves are harmed while pastur-ing on public highways, it would make a difference about the collection of damages.

About Banks

1. What is the difference between a state bank and a National bank?
2. Are deposits safer in a National bank than a state bank?
3. Are deposits safer in a bank with a harper capital than a small capital?
4. Is a certificate of deposit safer than a savings account?
5. Are deposits guaranteed in all state banks?

Earlies?

P. L. C.

1. State banks are chartered under the state laws and are under control of the state banking department. Na-tional banks are established at the Present time under the operation of the Federal Reserve Banking act, the management of one is state, while the man-agement of the other is National man-

2. Deposits are not necessarily any safer in National banks than in state

3. The deposits are not necessarily safer in banks of large capital than in ones of smaller capital. The safety of deposits depends upon the integrity and efficient management of the bank, not upon the size of the capital.

4. A certificate of deposit should not be any safer than a savings account and I know of no reason why it

is any safer.
5. No. Deposits are not all guaranteed anteed in state banks. Our guaranteed deposits law does not require banks to than 60 per cent of the state banks sperate under this law and somewhere in the neighborhood of 40 per cent do

Our Best Three Offers

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

More farm workshops are needed.

FAIRBANKS SCALES

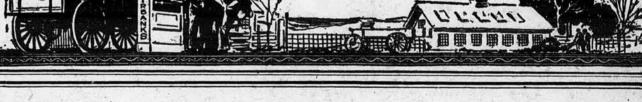


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venient for the office, store or home, and it fits nicely into the automobile tool kit. Every auto owner will want one.

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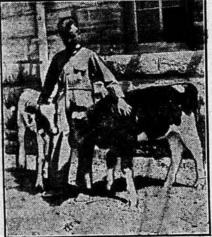
Waterloo, Iowa

With the Capper Calf Club

A Club Paper is the Latest Thing in Pep

BY EARLE H. WHITMAN

enough to settle down to work and get out a monthly club paper. As a rule, the county leader has to do more rule, the county leader has to do more than his or her share of the work but it's for the glory of the club in general and every member should help. The first club paper to be started by a Capper Calf club leader is "The Pep Leader," gotten out by Clarence Utz of Meade county. On this first issue Clarence did all the work, but he plane to have contributions from avery contributions from a contribution of the club in general and every member should help. to have contributions from every club member in Meade county for the next This issue is a mighty neat one, even if it wasn't possible to get a type-writer. "Next month," says the editor, the paper will be larger, and it will



Kenneth Graham, Russell County.

be typewritten if a machine can be procured. This month's paper is free, but future issues will be 5 cents a

Under the heading, "Who Will Win the Pep Trophy?" this hustling editor writes: "Clubrates, we are going after that cup full force. We assure you that all competition for all prizes will be clean on our part, and we feel that you are doing the same for us. Let us all do our best to win a prize, Let us all do our best to win a prize, but if we are unlucky let's take it in the right way and congratulate the winner." Clarence certainly deserves the complete co-operation of every Meade county boy and girl, and I hope to see the paper become the success it deserves to be.

Butler's Awake, Too

Down in Butler county a new club paper has put in an appearance, and it's something of which not only the members in that county but in the en-tire state may be proud. "The Barn-yard Magazine" is a monthly published by the Capper Calf and Poultry club members of Butler county. The editor is Myrtle Dirks, poultry club leader, and the ability this girl shows is much above the ordinary. The first issue is in magazine shape, with home-tillustrated cover, and typewritten as illustrated cover, and typewritten as neatly as many a highly-paid stenog-rapher could have made it. The fol-lowing are items of interest to calf club members, and I want you to read the last one with especial care:

"The poultry and calf club members have decided to hold joint meetings, and have just one set of officers for the two clubs. The officers elected at the last meeting are Eva Leatherman, president, and Dorothy Dirks, secre-tary."
"John Dirks has just returned from

Manhattan, where he has been attending the Kansas State Agricultural col-He seemed glad to get home, but we think he was more eager to see his calves than his folks."

contest calves, but it was not the purebred one. Her calf is such a fine one that she can't find a name that is good enough for it, so she just calls it 'My Calf.'"

"Little Jennie Dirks has been hear-ing so much about purebred stock and chickens that one day when she came

HAVE a great deal of admiration in from the garden, she said: 'Mother, for a county club which has pep I don't think your radishes are pure-I don't think your radishes are pure-bred. I found a red one in a row of white ones."

"If we are going to make any showing in our club work this year we will have to get to work, and work hard. There is no use saying that we can't do anything, because we can. Of course, if we don't do anything, and just put off trying until the last month or so, there isn't any use trying. You will probably say, "What can we do?" Well, here are several things: 1. Come to all, our meetings. Tell everybody about the meetings and try to get them to come. After we get them there, let's get them so interested in our club work get them so interested in our club work that they will be eager to come to all the rest of our meetings. 2. Send in all your reports on time. 3. Help all you can to make our programs interesting. 4. Help all you can in the work of getting up our club paper. 5. Think up new club yells, and then help yell them. 6. Try to get new members. 7. Think up new ideas to help out. 8. Help to make our business meetings snappy. If other folks can win, why can't we?"

I have another club paper on my desk—the "Calf Club Special" issue of the regular Linn county Capper clubs paper, "Pinfeathers, Hog Bristles, Hoof and Horn." The issue is one of the best-appearing club papers I have seen. Like the Butler county paper, it is typewritten. The editor is Mrs. C. T. Horton, a member of the mothers' division of the poultry club. I promised the editor I'd hold down this calf club story, or I'd quote some of the many good things from the Linn country paper. county paper.

Want a Paper in Your County?

Now, you counties that aren't show-ing any special life, what do you think of the work being done by Meade, Butler and Linn? As Myrtle Dirks says, "If other felks can win, why can't you?" I shall be very glad indeed to give any county leader or club member advice and assistance in starting a club paper. I know of no better way to arouse interest in the club work among boys and girls who aren't mem-bers now. The Capper Calf club has many advantages over the other Cap-

many advantages over the other Capper clubs, for it can profit by the many ideas thought up by the older clubs.

Do you know, the club manager is tempted to open the contest for the pep trophy to all calf club members, no matter whether there is more than one in a county. Last year, over in Missouri, the pig club pep trophy cup was awarded to a boy who had no teammates because the club manager felt be most deserved the honor. I can felt he most deserved the honor. I can safely say that if some Capper Calf club boy or girl shows an unlimited amount of pep and makes the number of points necessary, that member will be fully considered when the trophy is awarded. So look up the club story which gave the list of points, and keep account of your score.

We have with us this time another fine-looking club member and his calves. This chap is Kenneth Graham of Russell county, and he's the only club member in that county who hasn't Angus calves. Kenneth and his Hol-steins are showing pep, tho, and it will hurry his teammates to keep up. And by the way, girls, aren't the boys get-ting ahead of you in the picture line? I'm sure we've shown more boys than girls in the club story.

Cattle Values in South Africa

A summary of the sales lists of the various purebred cattle consignment sales held in South Africa during 1919, "Eva Leatherman has lost one of her gives the following averages and top

Colstein bulls	Average.	Highest price. \$17,000
folstein females	765	2,100
yrshire females	225	4.750
horthorn females berdeen Angus bulls	815	3,125 1,550
bondoon Angua temales.	540	2,000

Feed Sorghums With Care the replies stated that neither poisoning nor bloating occurred and that stock were turned in in just the same

Cattle are Sometimes Killed by Forage Poisoning

BY R. L. HENSEL

ONDITIONS under which sor- sirup as an antidote in cases of pois-ghums are poisonous are not oning thru feeding sorghum forage. fully understood and for this reagreatly and it is this factor of great variation that makes the use of preventive measure so difficult. We never can state definitely that a field contains the acid unless we make ac-tual tests and often we cannot find any traces of it when under other similar circumstances there was plenty of it. We cannot say either that one variety contains a greater amount than another. Recent tests made by the Florida Experiment station showed that stricken but they recovered. some varieties were entirely free while others contained as high as 37 ten thousandths of 1 per cent of the poison.

The Nebraska Experiment station

made several analyses which showed that some plants may contain as high as 14 one thousandths of 1 per cent. These figures are so small that they do not mean much without some explana-It takes about 9-10 of a grainabout one four-hundred and fiftieth of an ounce-of pure Prussic acid to kill a man while 1-50 of an ounce is enough to kill a steer. As a result of the ex-tremely violent nature of the poison it will be seen why only a small per cent in the plant may produce such havoc

Amount is Often Small

Under ordinary circumstances there is not enough poison present to be injurious. It is in only very rare and extreme cases that enough is produced to kill stock. Very often peculiar things occur in connection with sorghums that contain the acid. For example in 1919 the Kansas Experiment station at Man-battan analyzed some Sudan grass which was grown on the college farm. It contained a fairly large, amount of Prussic acid but all efforts to kill stock by feeding the grass to them failed. The animals not only liked it but got

The outstanding points in connection with sorghum poisoning are first, that the production of poison is greatest in those plants that have been stunted thru lack of rainfall and second, that the danger from poisoning is considerably less in the cured hay.

Since the amount of poison is greatest in stunted plants it never is advisable to pasture or to cut a field in this condition. Practically all of the poisonings that occur take place under just these circumstances. When it is noted that all or part of a stand is stunted there is but one safe thing to do and that is to keep the stock off until by a trial with some inferior or worthless animal you are able to determine defi-nitely that the plants are not poison-ous. If the plants do show by their effect on the trial animal that they contain enough poison to be injurious the field should be permitted to mature or nearly so and should then be cut for hay. The curing should be done slowly as by this means most of the poison is passed off.

What Experiments Show

Experimental data has shown that certain carbohydrates, the sugars and starches, when mixed in with the green material hold back or prevent the liberation of the Prussic acid. Since con-centrated feeds such as the grains, conarbonyarates 1 to try feeding them before turning stock into fields that were known to be poisonous. The results were so gratifying that it is now recommended that on suspected fields, the animals be given a grain ration immediately be-fore being turned in. The partially digested grain seems to act as an anti-dote. That this was true was pretty well proved by the Nebraska Experi-ment station by feeding doses of Prus-sic acid and glucose sirup to some stock. The doses were all large enough to prove fatal but in all cases the anito prove fatal but in all cases the ani-mals recovered. This has led that station to recommend the use of glucose

nue statement about the matter. However, the fact that sorghums produce an
active poison is known. This poison is
Prussic acid which is also correctly
called hydrocyanic acid. The amount
actually produced in the plant varies the poisoning showed that there were two distinct growths in the field. One was perfectly normal and the other was decidedly stunted. Both kinds were analyzed and it was found that the stunted grass ran so high in Prussic acid that the feed was indeed dangerous. In fact it was so fatal that two cows from a lot of seven cows that were put into the inclosure died in a very short while. Other animals were

On the other hand more than 100 inquiries were sent out by the college in the winter of 1919 to men who were using Sudan grass asking them if they had had any losses occur from the use of it as pasture. They were also asked if they fed cattle in any particular way before turning them in. In all cases

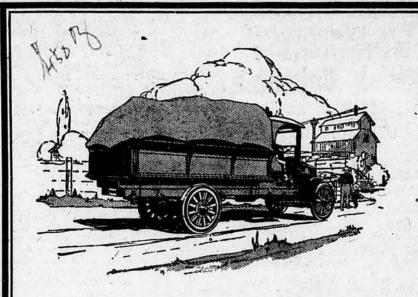
manner that stock were turned into other pasture. It might be well to state here, however, that it is a good plan to leave stock in Sudan pasture for only a short while the first day or two in order to overcome any possible danger of bloating.

There is no way in which the presence of Prussic acid can be detected easily in the field. A laboratory analysis is necessary to determine this but there is said to be a very hitter taste to the leaves of those plants which are high in acid content. This test can be used as a rough guide. There is scarcely any danger that poisoning would occur to man if a small amount of even badly affected sorghum were tasted.

There is a mistaken notion prevalent that by mowing the first crop, danger of poisoning in the subsequent growths Second growth sorghums is removed. have been found to contain large quantities of the poison. Frosted plants are also unsafe and should not be used.

Perhaps the best way to test out a suspected field is to put in a worthless or less valuable animal, watching it closely for a few hours. If no signs of poisoning are noted it may be considered fairly safe for other stock. Just as soon as signs of distress are noted in the test animal it should be removed (Continued on Page 27.)

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beautiful pep trophy and the accom-

Capper Pig Club News

Should a Boy With Nine Pigs be Discouraged?

BY EARLE H. WHITMAN

club members must not lose sight of this

"I guess I will drop out of the Capper Pig club because there are only two in the club, counting myself. If any more go into the club next year I will join again." How many pigs do you suppose the boy who wrote that has? Nine! Now, what do you think of that? This boy has lost sight of the many cash prizes that may be won, and the experience to be gained from club work, no matter whether he has any teammates. "I wish there were some more boys in the club in this county," writes another boy, "but as there aren't I'll just work that much harder and show them what they're missing." This boy is the kind that This boy is the kind that will win, no matter what he takes up. You can't let someone else do your work, and any boy who has nine pigs, or any other number for that matter, and decides to drop contest work, is beginning the formation of a mighty bad habit. Stick to the game, fellows. "You win even if you lose," is the motto of many club members.

A Prize for Poland Boosters

Talking about prizes, here's one that should make Poland boosters sit up and take notice. Fred B. Caldwell, Topeka, Kan., Route 8, writes the club manager that there's a \$50 Poland China gilt for Capper Pig club boys to compete for. Mr. Caldwell states that this gilt will be given either by himself or by the Kansas Poland China Swine Breeders' association. Isn't that welcome news? The club owes Mr. Caldwell a sincere vote of thanks. This prize is for competition by all Capper Pig club members who have year, December 15. And don't forget, for county meetings. you Duroc and Hampshire enthusiasts, that D. O. Bancroft of Osborne, Kan, will give a \$50 Duroc gilt, and that the Kansas Hampshire Swine Breeders' asand Spotted Polands.

"Making monthly reports is a little it began to rain. We plan to have our

THE contest for the pep trophy, extra trouble, but it's worth it," com-and the fine fellowship and team-ments a club member. I believe every boy will agree with him. Next Decemexceedingly important part of Capper ber we're going to have the highest per-club work. There is no greater honor centage of members turning in com-to be won by club members than the plete contest records that the Capper Pig club ever has known. The monthly panying knowledge that you and your report system is eliminating the small county have distanced every other crors that may easily creep in unless county in the state. After all, tho, a monthly check-up is made. And let training boys to become better live-stock men and thereby improving the farming industry of the state is just too, but it's all worth while. New as important as anything else, and feeds and their values afford numerous club mambers must not loss sight of problems, and I think it will be well for all members to know of such rulings. For instance, there is no contest price for cornchop. After talking this over with an experienced hogman, I've decided that members should count cornchop at the same rate given for shelled corn, \$2.75 a hundred pounds. Then, there are the rabbits that some boys are giving their hogs. Let's count them at 5 cents apiece, and they're easily worth that, for they take the place of tankage to some extent. Be careful about feeding rabbits, tho, for they must be fresh and should be given as regularly as possible. Another thing, if you're buying feeds in hundred-pound lots it isn't necessary to weigh every feed in order to be able to tell at the end of the month the exact quantity fed during the preceding 30 days. Simply estimate as accurately as possible, being pareful to see that your estimates total up right; that is, if you estimate that 35 pounds have been fed at the end of the month from a hundred-pound sack of shorts, be sure to count only 65 pounds on the

following month's report. As I write this, letters are pouring in on every mail, ordering stationery, voting for breed club officers, request-ing pedigree blanks, thanking me for the club buttons, telling about sows and pigs, and in fact containing mention of everything club members are doing. What an interesting thing it is to be in such close touch with a fine lot of chaps such as we have in the Capper Pig club, and what a busy time it is for everyone! Club members are doing men's work on the farm, but they're not permitting themselves to Polands entered in the contest, and will neglect their rlub work. At the end be awarded to the boy having the of the year they'll be glad they stayed highest grade at the end of the club with the game. And there's still time with the game. And there's still time

"We held our meeting the 19th," writes County Leader Carl Dews of "We had a fair attendance, Osage. even if the weather did look bad and sociation has offered a Hampshire gilt even if the weather did look bad and of the same value. Now let's have it was a busy time. The dinner was prize offers from the Chester Whites served in cafeteria style and we ate under a large elm tree. About 4 o'clock





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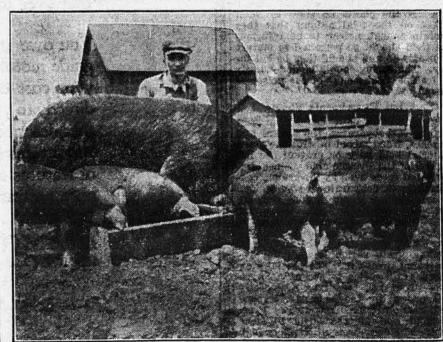
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James Grimes of Coffey County, With His Poland China Entry. This Chap Learned How to Raise Hogs by Caring for Runty Pigs.

next meeting with the Shawnee county

next meeting with the snawnee county club if it can be arranged."

This report comes from Gilbert Shuff, Reno county leader: "Our last meeting certainly was a fine one. We had more grunts than cackles present, at these were five pig club." as there were five pig club members and two poultry club girls. And, say, I certainly liked the pig club button, and will wear it where everybody can

Other club members are proud of their buttons, too, and I'm sure that no member will appear at a meeting this month without a button. All over the country, also, will appear the breed club cards. If you didn't get a button or card, write the club manager

Some hogs I'm showing you this time. some nogs in snowing you this time-aren't they? Some boy, too, for James Grimes is making the finest kind of showing, both with his hogs and in the hig fight Coffey county is putting up fight Correy county is putting up for the pep trophy. I'll wager you can't guess this chap's nickname. Give it up? Well, it's "Pivot, Jr.," and he gets it from his older brother who was called "Pivot" when he played football.

Feed Sorghums With Care

(Continued from Page 25.)

and given a dose of corn sirup at once. The usual symptoms of poisoning may be divided into three stages about as follows: First, the animal appears to be bewildered, the breathing is difficult and the pulse is slow. In the second stage the pupils dilate, vomiting occurs and the animal may utter loud cries. There may be spasmodic and in-voluntary discharge of urine and feces. The animal may fall unconscious and have convulsions. The last stage is characterized by complete collapse, spasms, general paralysis and death. The poison acts very rapidly and any treatment contemplated must be given in the early stages.

The following precautions in the use of sorghums may be of value:

Don't pasture sorghums that have become stunted thru lack of rainfall without first testing the field out by the sorghum and the sorghum an putting in a less valuable animal and watching it closely for a few hours. If no signs of distress are noted the field may be considered safe. If, however, you wish to play doubly safe, give the animals a grain ration immediately be-

fore turning them into the pasture.

Don't cure suspected sorghums that are cut for hay too rapidly. The slower the curing is done the greater will be the amount of poison that is removed.

Don't pasture frost bitten sorghums. Last and most important, don't be afraid to plant sorghums because they sometimes poison stock. The value of sorghums on Kansas farms is so great while the danger is so small, that a much larger acreage should be planted. We never have stopped smoking because tobacco contains an active poison and we never have stopped feeding forage to animals because every now and then some animals die from "forage poisoning." It would be just as logical to be afraid to plant sourchure on acto be afraid to plant sorghums on account of the occasional cases of poisoning as it would be to stop raising cattle because every once in a while one is killed by lightning.

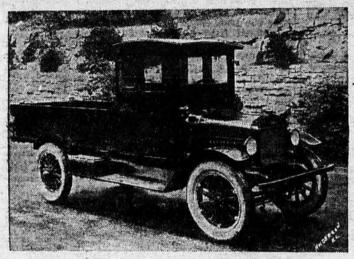
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BY JOHN W. WILKINSON

ble that the yield may exceed the estimate of 110 million bushels made by the Kansas state board of agriculture. Altho the acreage is about a third less than for last year the yields are much larger and the grain is of better quality as a rule. Wherever wheat has been cut farmers are elated over the tests made in the fields. An occasional field will show 30 bushels occasional field will show 30 bushels or a little more, but of course such fields are exceptional. It is now be-lieved that a large part of Southern Kansas will average 18 bushels an acre. An average of 14 bushels an acre over the whole state would mean a produc-tion of 135 million bushels. In view of this fact it would seem that the estimate of 110 million bushels made by the state board of agriculture would be an extremely conservative one.

The best yields that have been reported on the new wheat crop were made on ground that was plowed somewhat deep and early in the plowing season with tractors. This early deep plowing with horses or mules is not so practicable as thru the use of tractors. The shortage of farm labor also made it necessary to speed up the work and the tractors seemed to offer the only solu-

Storing Grain in Bins

No shortage or feeling of tight money is being felt in the harvest situation. Most Kansas bankers are eager to lend farmers considerable money in hold-ing for better shipping conditions and prices. They are urging the farmers not to worry over car and locomotive shortages, but to build bins. Many are purchasing metal bins which are ratproof and weatherproof and really such an investment is small in consideraan investment is small in considera-tion with the value of the wheat it-self. Many are also stacking their grain and will not thresh until late in the year when it is hoped that the car situation will have improved to some extent.

The mill and elevator situation is congested, to say the least. Some mills are so full of grain and flour and so unable to move their product, that the mill men are refusing wheat. Many country elevators are choked with wheat, some of it even said to be last year's crop. And in a rare case, here and there, are found farmers who are holding to their 1919 crop themselves.

General Crop Conditions

General crop conditions in Kansas are considered satisfactory. The Kansas state board of agriculture in its report for the week ending July 3 says:
"The past week has been character-

ized by conditions very favorable for growing crops. Good rains have fallen in Eastern and Central Kansas, with local showers elsewhere. Reports on the condition of wheat are almost uniformly high. Harvest is well along toward completion in Southern Kansas and is well begun in Northern Kansas. Early threshing is reported in Southern Kansas. While the presence of grass-hoppers, Hessian fly and chinch bugs is mentioned, little apprehension appears to be felt except from grasshop-pers. The damage actually resulting from this cause is not large as yet.

"The week has been especially favorable for corn. Good progress is reported for the crop from almost every county. In spite of heavy rains in some localities cultivation on the whole has progressed normally and the fields are being handled well.

"The potato crop has more than maintained its earlier fair condition. In Eastern Kansas favored with considerable rain a marked improvement has taken place. Digging has begun in the Kaw Valley.

"The condition of the grass in the grazing sections in Southeast Kansas has been much improved by the rains during the week and cattle on pasture are generally reported as making encouraging gains. The grass in Western Kansas would be benefited by more moisture."

Local conditions of crops and farm work are shown in the following county

Barber-Weather is very hot. The mercury

WHEAT prospects in Kansas still registered 106 in the shade July 1. Harvest is progressing. Wheat will make from 12 continue bright, and it is possible to 15 bushels an acre. Spring crops need to 16 bushels and cre. Spring crops need rain. Corn is laid by. Kafir and cane are doing well. Very little livestock is being marketed. Cattle are fattening and pastures are good. No sales are being advertised.—Homer Hastings, July 3.

Chase—The most welcome rain we ever have had fell June 29. Farmers were hauling water to cattle in pastures. Some pastures were good yet. Wheat is cut and the yield will be good. The second cutting of alfalfa will be poor. Most all garden truck is dead. Oats are in poor condition.—F. D. Pracht, June 30.

Is dead. Oats are in poor condition.—F. D. Pracht, June 30.

Cherokte—June was dry but we are having good showers now and crops look well. Harvest was excellent and the weather was cool and dry. Wheat and oats are in the shock. Livestock is doing well, but there is a stock shortage here. Cattle are thin but some are going to market. Butter sells for 50c; butterfat, 62c; milk that tests 5, 30c a gallon; eggs, 28c; young chickens, 30c.—L. Smyres, July 3.

Cheyenne—Local showers fall occasionally that provide plenty of moisture. Wheat is fillings well. Some damage from the fly has been reported in the south part of county but the average yield will be better than last year. Harvest will begin about July 10 or 15. Pastures are in excellent condition and stock is doing well. The wheat car situation is much improved. Wheat, \$2.35: butterfat, 50c; eggs, 28c.—F. M. Hurlock, July 2.

July 2.

Clay—Farmers are thru cutting wheat and oats, and have begun threshing. The yields in the valleys and north half of county will be good, but the crops in the south part will not be so large. The quality of wheat is excellent, and should grade No. 1. It probably will average 17 bushels an acre. The yield of oats will be unsatisfactory. Four inches of rain fell in the north part of county on June 29 but the south part is very dry and the temperature registers 100 to 105 in the shade. Wheat is selling for \$2.50; new wheat, \$2.42 to \$2.55; corn, \$1.75; hogs, \$15; hides, 9c.—P. R. Forslund, July 3.

July 3.

Coffey—Weather is hot. We had a good rain recently which, was needed for corn and kafir but it put the wheat down a little. Farmers are harvesting. Wheat and oats ripened at the same time. The potato crop was cut short by dry weather. Livestock is doing well and grass is good. Prairie hay is being baled.—A. T. Stewart, July 3.

Prairie hay is being baled.—A. T. Stewart, July 3.

Dickinson—Harvest is almost over. Wheat is good but oats was damaged by the dry weather. We had a 3-inch rain June 29 which delayed cutting a day and a haif, and made the work difficult on account of the soft ground. Corn is growing fast, and the fields are clean. Pastures were getting dry but are becoming green since the rain.—F. M. Lorson, July 3.

Doniphan—We had a good rain June 27 which was needed very much. Corn is in good condition but is late for this time of year. A great deal of hay has been put up. Farmers are beginning to cut wheat. Pastures were drying up before the rain. Hogs, \$15.80; corn, \$1.70; oats, \$1.05; potatoes, \$4; cream, 48c.—B. Ellis, June 28.

Elk—Crops are in good condition and we

Fib. 80; Corn., \$4...\$

ream, 48c.—B. B. Ellis, June 28.

Elk—Crops are in good condition and we have had pienty of moisture. Wheat and oats are in the shock and farmers have begun to thresh today. Wheat will yield exceptionally well, and the oats crop will be satisfactory. The potato crop was good. Cattle are healthy, and hogs are scarce. Cream is worth 48c; prairie hay, \$12.—C. C. Jones, June 28.

Cream is worth Asc; prairie hay, \$12.—C. C. Jones, June 28.

Franklin—We have had two heavy rains in the past week which hindered wheat and oats cutting. Oats is falling badly, but wheat is not so ripe. Much hay is being put up, also some prairie bay. Corn looks well.—E. D. Gillette, July 2.

Gove—The last week of June was warm and very little wind blew. Wheat and barley ripened fast. Wheat will make an average crop. All other crops are growing well. Cattle are healthy. Grasshoppers are getting thick and doing some damage. Farmers seem to have plenty of help. Cream, 52c; eggs, 28c; sugar, 30c; new potatoes, \$8 to \$8.40; spring chickens, 30c.—Newell S. Boss, July 2.

Haskell—Wheat. oats and barley harvesting is on. The quality of wheat is good. The oats yield will be light but barley will yield satisfactorily. A number of combines have been sold. We have plenty of help. Good rains have fallen and feed crops and corn are in excellent condition and are growing well.—H. E. Tegarden, July 3.

Linn—Harvest has been delayed a day or two on account of rain on June 30, but the moisture was of much benefit to other crops. A few fields were damaged by hall. Corn is clean and is growing very fast. Oli prospects are good here. Stock is doing well and fat hogs are scarce. Hogs sell for \$14; corn, \$1.70; potatoes, 5c a pound; eggs, 32c.—J. W. Clinesmith, July 3.

Lyon—Wheat is in very good condition and will average about 25 bushels an acre. Oats also is in good condition. A good rain fell June 30 which was beneficial to crops as the ground was dry. Corn is satisfactory, but is short. It will grow better since the rain. We have plenty of pasture and livestack is healthy. We will not have much fruit but gardens are good.—E. R. Griffith, July 1.

Nemaha—A heavy rain which fell last night was very welcome but it was accompanied by high wind and hall that did much damage. Stones fell that measured 4 inches. Corn and gardens were badly damaged but wheat is still standing and will all be harvested this week.—A. M. C., July 2.

Neosho—We had a good rain June 29.
Corn and kafir are growing fast and prairie grass is in good condition. The four weeks of hot and dry weather played havoc with wheat on prairie land. It will yield only chicken feed. Oats will make a satisfactory crop. Pastures are good. Eggs sell for 32c;

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baled hay, \$10; bale ties, \$2,75 and \$3; grass fat cattle, \$7.50.—A. Anderson, July 2.

fat cattle, \$7.50.—A. Anderson, July 2.

Phillips—We are starting to harvest one of the best wheat crops I ever have seen. The weather has been very favorable for ripening the grain. Several light showers fell that made corn grow. It is coming down in price, and sells now for \$1.40. Some fat cattle are being shipped to market when cars can be obtained. A few farmers still are planting feed crops.—J. M. Jensen, July 1.

Riley—We have not been

and flies are bad. The second crop of alfalfa is ready to harvest.—J. P. Nelson, July 3.

Sherman—Local showers have fallen. Rye is ripe and being cut. All grain will be ready to cut in a week unless a general rain falls. Forage crops and corn are in good condition. Grass is drying and hay should be cut. A satisfactory crop of alfalfa was harvested.—J. B. Moore, July 3.

Sumner—A 2-inch rain fell July 1. Corn and sorghums look well, and pastures will be better. Wheat and oats are nearly all harvested. The quality of wheat is good and it will yield between 10 and 16 bushels an acre. Machines have begun to thresh. Straw is short. Wheat sells for \$2.35, new and old; corn, \$1.55; oats, \$1.10; eggs, 28c; butter, 55c; butterfat, 56c; potatoes, 8c a pound; apples, 5c.—E. L. Stocking, July 2.

Trego—Weather is warm.. Harvest is progressing and the wheat is of good quality. Some black rust and smut have been reported in fields. Oats and barley are in good condition, also corn, cane and kafir. Alfalfa is almost ready for the second cutting. Meadows and pastures are satisfactory.—C. C. Cross, July 1.

Washington—No rain has fallen here. Hot, dry winds blow, and the people and livestock suffer much from the intense heat. Harvest is progressing. Wheat is geod, but the oats yield will not be so heavy on account of the dry weather. Corn is beginning to show the need of moisture and is not laid by. Eggs are worth 28c; butterfat, 50c; corn, \$1.80; cherries, 18c a pound.—Ralph B. Cole, July 2.

Co-operative Farm Marketing

BY GEORGE A. MONTGOMERY

That farmers of the Mississippi Valley are ready to undertake co-operative marketing of all the grain raised in their section of the country was shown at a meeting of the State Farm Bu-reaus of 12 Middle Western states held at Ames, Iowa, June 22-23. A meeting of representatives of all the cooperative marketing organizations of this section was called to meet in the near future to consider the advisability

of undertaking such a project.
If the plan is reported favorably the first step will be to organize farmers' elevators in each community in the grain belt. This will be undertaken by the State Farm Bureaus of the different states, which will send men from their organizations into every com-munity to help in getting together enough farmers to establish an elevator large enough and strongly enough financed to handle the entire grain crop of the community.

A Systematic Plan

The Farm Bureaus will go about the organization of these in a methodical manner. Meetings of Farm Bureau of-ficials, state and county, bankers and directors of existing farmers' elevators will be held in every Congressional district to work out plans for organiza-tion in the district. General plans for financing the new institutions also will worked out at these district meet-

When enough of these farmers' elevators are organized to make it practicable, it is planned to organize a cooperative marketing association for the entire section thru which the grain handled by these elevators could be sold. This would eliminate the boards of trade of this section if the farmers' elevators became powerful enough to handle all the grain grown in the Middle West.

Cost of Selling Grain

Representatives at the meeting estimated that the cost of selling grain thru the various boards of trade was between 30 million dollars and 40 million dollars a year in commissions alone, aside from the large amounts received by speculators. The actual cost of selling the grain is only a small part of that amount, it was said, and the balance represented the profand the balance represented the profits of commissions firms. The farmers believe they can make a substantial saving by marketing co-operatively, and can at the same time do away with the sheemlaters are time do away with the sheemlaters are time do away with the sheemlaters. speculators who buy up the bulk of all the grain and then advance the price to a point which is unfair to the consumer

Canada for a number of years has marketed her grain thru co-operative elevators and a co-operative marketing association, and has saved her farmers several millions of dollars each year. The Canadian farmers own their eleare planting feed crops.—J. M. Jensen, M. Jensen, July 1.

Riley—We have not had any rains here and the ground is getting very dry. Wheat they uneven. The grain is good, but some fields are thin. Oats are short and the quality is not very good. Corn is growing slow but fields are clean. Pastures are getting dry. The second crop of affalfa is poor. Eggs sell for 34c; cream, 46c; corn, 11.95.—P. O. Hawkinson, July 3.

Saline—Wheat and oats are nearly all cut. Some farmers stacked the grain. The quality, generally, is good. A cool rain fell last week. Pastures are good and garden truck is growing fast. The heat is severe and files are bad. The second crop of alfalfa is ready to harvest.—J. P. Nelson, July 3.

Sherman—Local showers have fallen Dry.

The recommendation until it reaches the mills. The Canadian system will be studied by a committee appointed to take a trip with the Commissioner of Agriculture of Canada to investigate the different phases of the Canadian plan.

The Illinois Way

The plan is that of the executive committee of the Illinois Agricultural association, and was presented at the Ames meeting by William G. Eckhardt, director of grain marketing for the Illinois agricultural and stream plan.

The recommendation of the studied by a committee appointed to take a trip with the Commissioner of Agriculture phases of the Canadian system will be studied by a committee appointed to take a trip with the Commissioner of Agriculture phases of the Canadian plan.

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The canadian system will be studied by a committee appointed to take a trip with the Commissioner of Agriculture phases of the Canadian plan.

The Illinois Way vators, terminals and docks, and handle the grain until it reaches the mills. The Canadian system will be studied

tee relative to the farmers' elevators

4. All new plants should be installed with equipment for drying grain so that waste from spoiling and the hauling of water in grain shipments could be eliminated.

inated.

5. All plants should be large enough to carry their proportion of grain from a very favorable year when excess production occurs to a year when less favorable seasons require the carry over.

6. These elevators should be joined together to own the required terminals, coal mines, saw mills or other business that may be essential to develop the greatest efficiency.

Ralph Snyder of Oskaloosa, president of the Kansas State Farm Bureau; P. W. Enns of Newton, treasurer; O. O. Wolf of Ottawa; Charles R. Weeks of Manhattan, general secretary; and R. W. Graham of Manhattan were those attending the hattan, were those attending the con-ference from Kansas. Chester H. Gray of the Missouri State Farm Bureau acted as secretary of the conference.

Other items of business brought be-fore the conference were, the pooling 1. Elevators should be strongly enough financed to handle all the business of the community.
2. Elevators should be in a position to carry their proportion of grain from the period of marketing to the period of consumption, eliminating the need of speculative capital.
3. Shipments should be made by the shortest and least expensive route from the community.



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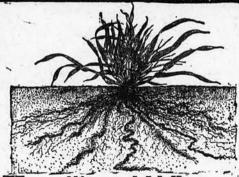
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KANRED SEED WHEAT. J. H. TAYLOR and Sons, Chapman, Kan.

GUARANTEED HIGH GERMINATING alfalfa, \$12 bushel; Sweet Clover, \$16.50; Red Clover, \$27. Sacks free. Rye, \$2.50. Liberty bonds accepted at par. Meier Seed Co., Russell, Kans.

ORANGE CANE, \$2.50 CWT. BLACK AMber, \$2.25; Red and White kafir, Milo Maize, and Feterita, \$3.20; Darso, \$3.20 cwt.; millet, \$5 cwt. All recieaned. Union Mili and Elevator Co., Severy, Kan.

FOR THE TABLE

"THEBESTO" ROCKY MOUNTAIN HONEY, light colored, thick, fine flavored. Per can, five pounds net, poetpaid anywhere west of Ohio river, \$1.50. Send remittance with order, The Colorado Honey Producers' Association, Denver, Colo.

QUEEN'S TASTE COFFEE, A HIGH GRADE 60c coffee direct to you by prepaid parcel post. Ground or berry. Trial pound, 49c; three pounds, \$1.45; 10 pounds, \$3.60. Queen's Taste Coffee Co., 606 Kansas Ave., Topeka, Kan.

LIVE STOCK COMMISSION FIRMS.

SHIP YOUR LIVE STOCK TO US—COMPEtent men in all departments. Twenty years on this market. Write us about your stock. Stockers and feeders bought on orders, market information free, Ryan Robinson Commission Co., 425 Live Stock Exchange, Kansas City Stock Yards.

PET STOCK.

SELLING OUT CHEAP, PEDIGREED registered utility Rufus Red Belgians, New Zealands, Flemish Giants, heavy weights. Write for free descriptive price list. Satisfaction, safe delivery, guaranteed or money back. Grandview Rabbit Farm, 3114 Hamilton, El Paso, Texas.

ist. Satisfaction, safe delivery, guaranteed or money back. Grandview Rabbit Farm, 3114 Hamilton, El Paso, Texas.

STRAY NOTICE.

TAKEN UP BY W. E. WIPPEL, WHO REsides in Walnut township, Marshall county, Kansas, and whose postoffice address is Hanover, Kansas, on the 6th day of June, 1920, 5 head of two-year-old helfers, 3 speckled face, 1 red, and 1 spotted. A. J. Harvey, county clerk.

TAKEN UP BY C. R. SLONDUCH WHOSE residence is E½ of N. E. ½ Sec. 10 Twp. 34, R9 Blaine Township, Harper County, on the 20th day of June, 1920, one Bay gelding, with white stripe in face, with mark on left front and hind foot, weight 850 pounds, age 10 years, appraised value \$25. C. E. Kennedy, County Clerk.

TAKEN UP BY CHRIST BARTLES, WHO resides in Herkimer township, Marshall county, Kansas, and whose postoffice address is Herkimer, Kan, on the 24th day of May, 1920, one male hog about two years old, black with all four legs white up to knees, ring in nose. Cash value of stray at time taken up, \$40. Ownership must be proven and pay for care and expense. A. J. Harvey, county clerk.

POULTERY

Ing. with white stripe in face, with mark on left front and hind foot, weight 850 pounds, age 10 years, appraised value 25.5. C. Kennedy, County Clerk.

Kennedy, County Clerk.

TAKEN UP BY CHRIST BARTLES, WHO resides in Herkimer township, Marshall county, Kansas, and whose postoffice address is Herkimer, Kan., on the 24th dear dress is dress in the stand dress is dress in the stand dress is dress in the stand and a standard dress is dress in the standard dress is dress in the standard proportion and pay for care and expense. A. J. Harvey, county clerk.

POULTRY

BABY CHICKS

BABY CHI

MINORCAS.

SINGLE COMB BLACK MINORCA COCK-erels, 8 to 10 weeks old. \$1 each if taken soon. Claude Hamilton, Garnett, Kan.

SINGLE COMB WHITE LEGHORN HENS, \$18 doz. Pullets, \$16.50. H, Vinzant, Mc. Pherson, Kan.

S. C. WHITE LEGHORN, COCKERELS 4 months old, dandles. Best egg strains, \$1.25. W, F. Abels, Clay Center, Kan.

100 PURE S. C. B. LEGHORN TWO YEAR old hens, \$2 each. Cockerels, \$1; Barred Rock pullets, \$1. Mrs. Jefferis, Route 1, Kincald, Kan.

PURE BRED S. C. W. LEGHORN CHICKS, 7 weeks old, healthy, well feathered (Young Strain). Vira Balley, Kinsley, Kan.

PLYMOUTH ROCKS

WHITE PLYMOUTH ROCKS. EGGS \$10 hundred. Peter Desmarteau, Damar, Kansas.

BARRED ROCKS "ARISTOCRAT" SIRES (direct) one setting \$1.50; two \$2.50 post-paid. Mrs. Lester Benbow, La Crosse, Kan.

POULTRY SUPPLIES

CHICKS WILL GROW TWICE AS FAST if you will keep Brooks Meat Mash before them at all times in hoppers, as it contains meat scraps, dried milk, and grain meals necessary for quick growth that are not found in grain feeds. Hundreds of poultry raisers claim to have two and one-half to three-pound chicks in 8 to 10 weeks time by using Brooks Meat Mash as a growing feed. If your dealer won't supply you, we will ship in 160-lb sacks only on cars here, 109 lbs. \$4.50 or 500 lbs. \$21.25. The Brooks Co., Migra., Ft. Scott, Kan.

THE BEST PRODUCTION FOR CHICKENS

THE BEST PRODUCTION FOR CHICKENS, cows and hogs in the world is La-Mo-Pep. Box 122, Kansas City, Mo.

POULTRY WANTED.

PREMIUM PAID FOR NON-FERTILE eggs and fancy broilers. Quotations, coops and cases on request. The Copes, Topeka. PREMIUM POULTRY PRODUCTS CO., 216 N. Kansas Ave., Topeka, buys poultry and eggs on a graded basis. We furnish coops and cases. Premium prices paid for select eggs and poultry.

Make Horses Comfortable

Hot weather is especially trying on horses while at work, but there are a number of things that we can do to make them more comfortable and better able to meet the demands made upon them. The Boston Work Horse Relief association of 15 Beacon Street, Boston, Mass., makes the following sug-

try for the pipe from the bathtub. This carries off the water. The tub is filled from the cistern in the kitchen.

Mrs. Walter Scott.

Coffey Co., Kansas.

Real Estate Market Place

Real estate advertisements on this page (in the small type, set solid and classified by states) cost 65 cents per line per issue. Send check, money order or draft with your advertisement. After studying the other advertisements you can write a good one and figure the cost. About six words make an agate line. Count initials and numbers as words.

There are 7 Capper Publications totaling over a million and a quarter circulation and widely used in this advertising. Ask us about them.

Special Notice All advertising copy of the state Department must reach this office by 10 o'clock Saturdag morning, one week in advance of publication.

KANSAS

WHEAT, corn and alfalfa farms, all sizes.
Theo. Voeste, Olpe, Kansas.

SMOOTH, mexhaustible underflow irrigation land. Carl Errebo, Garden City, Kansas.

160 A. IMP., \$65 a. Many alfalfa farms for sale. M. T. Spong, Fredonia, Kan.

BEST FARM BARGAINS for sale in S. E. Kan., by Meyer & McCabe, Fredonia, Kan. IF YOU WANT to buy, sell or exchange your farm, write W. T. Porter of the Kansas Land Company, Ottawa, Kansas.

BARGAIN-320 a. pasture land, eight miles of Spearville, \$20.00 acre. Other bargains. E. W. Moore, Spearville, Kansas.

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

100-ACRE OIL LEASE FOR SALE, near oil well test now drilling, Rossville, Kansas.

J. W. Watkins, Quenemo, Kansas.

(UA)VER, timothy, bluegrass and alfalfa land, cheapest in state, exchanges made. Clark Realty Co., Garnett, Kansas.

FOR SALE—160 acre farm in Rush County Price \$11,500 if bought now. Address Mr. John Gerlach, 110 8th West, Hutchinson, Ks.

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

200 ACRES, 3 miles to Council Grove. Well improved, county road, \$75.00 per acre, Send for list. S. L. Karr, Council Grove, Kan.

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

HAMILTON AND STANTON county lands, 18 up. Write me your wants. Tomson, Syracuse, Kansas.

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

BARGAINS

In Western Kansas wheat and alfalfa lands. THE BROOKE LAND & LOAN COMPANY, Winona, Kansas.

ACRES, all fine smooth, rich tillably land, black soil, no rock, 2 sets buildings, mile town, only \$85 per acre. Easy terms. Sewell Land Co., Garnett, Kansas.

BIG BARGAIN

New improved 160, all smooth land, posssion at once. Price \$10,400.

Parsons & Stewart, Fredonia, Kansas.

FOR SALE—120 a. imp. farm, well located, rich limestone land, lays fine. Bargain at 185.00 per acre. Terms. Write
E. H. Bideau, Chanute, Kansas.

20 CHOICE QUARTERS, unimproved level grass land, in Wichita county, Kansae. Friced to sell. Write Jas. H. Little, The Land Man, La Crosse, Kansas.

QUARTER SECTION, \$4,000. 3 miles from town. 60 acres in crop. All level fine nd. Easy terms. Griffith & Baughman, Liberal, Kansas.

A COMBINATION RANCH of 800 acres of wheat, alfalfa and grazing land foining the town of Pierceville, Kan. Price \$15 per a Write F. M. Wallace, Pierceville, Kansas.

FOR SALE—320 acres improved, 160 in crop, all goes; 7 miles from Bird City, Ean., \$60.00 per acre. Terms. John Glasco, Bird City, Kan.

240 ACRES, 3 miles town, 35 acres alfalfa, all fine land, well, 'improved," \$24,000.00. Mortgage only \$6.000. Equity for general stere. Box 38, Thayer, Kansas.

Only 4 miles from town APROVED Only 4 miles from town, 25 in alfalfa, 60 pasture, balance corn and wheat, two-fifths trop goes if sold soon, \$15,000.

T. B. Godsey, Emporla, Kansas.

SOUTHEASTERN KANSAS. Farms, all sizes; lowest prices.

1000 up. Send for booklet.

ALLEN COUNTY INVESTMENT CO.,

10la, Kansas. Farms,

966 ACRES, Graham Co., Kan., 400 cultivation, big house, barn. etc. All fenced and school fenced. On R. F. D., phone, 1/2 mile school. \$50 acre. Many others.

Clyde Thuma, Lenora, Kansas.

OWN A HOME IN EASTERN KANSAS Wheat, corn, clover, alfalfa land. Ottawa, the County seat, Franklin Co., 10,000 population. University, excellent schools, manufacturing interests, mill, creamery and condensory. Fine location. Buy now. Write for Free Booklet and new list No. 457. Farms and City Property for sale. Mansfield Land & Loan Company, Ottawa, Kan.

WHEAT LAND

25,000 Acres
At a Bargain.
For Information Write
KANSAS INVESTMENT CO.,
Ness City, Kansas

KANSAS

80 ACRES highly improved, \$80 acre, best of terms. W. J. Poire, Westphalia, Kan

WE DON'T OWN THE WORLD, we sell it.
Write for farm list and pictures.
Kanses Land Company, Ottawa, Kanses.

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

FOR SALE—Well improved farms in Frank-lin Co., Kan. Good farm lands in West Kan., \$20 to \$40 per acre. Ask J. M. Stewart, Hutchinson, Kan.

160 ACRES, 4 miles from town. Good 7-room house, new barn, other outbuild-ings; 90 acres in cultivation, balance grass. ings; 90 acres in cuitares.

Price \$85 per acre; terms.

Le Roy Realty Co., Le Roy, Kansas.

WHEAT LAND! 320—acres Scott County, Kansas, 7 miles town, all smooth, 90 cultivation, balance grass, no improvements, Priced for quick sale at \$25.00 per acre. Write for list and Map. Mansfield Investment & Realty Company, Healy, Kansas.

NESS COUNTY, KANSAS, LANDS
Good wheat, alfalfa and ranch lands at
bargain prices. Several excellent ranches.
Write for price list, county map and literature.

FLOYD & FLOYD, Ness City, Kan.

310 ACRES, 6 miles of Ottawa, Kansas, on state highway, has good sets of improvements, fine location, Real bargain for \$110 per acre. Good terms. Write for booklet. CASIDA, CLARK & SPANGLER, Ottawa, Kansas.

A SNAP—560 a. farm, 4 miles from market, 7 miles from County seat, 2 good sets of improvements, 400 acres in cultivation, creek bottom land. Price cut to \$65,000 to settle estate. Terms. Write for other bargains. Pagett, Moore & Cooke, Beloit, Kan.

FINE CREEK BOTTOM FARM
240 acres, 3 miles out, school 1 mile. Good
6 r. house, large barn, other bldgs. Half 1st
and 2nd bottom land all in cult., no overflow, possession Sept. 1. Price \$24,000. Easy
terms. Ed F. Milner, Hartford, Kansas.

240 ACRES, 6 miles from Jamestown, Kan.,

140 acres under cultivation, 100 acres
grass, ideal stock or dairy farm, 10-room
modern house and good barn, a snap at
\$20,000,000. Good terms. Write for particulars. B. R. Carlile, Jamestown, Kansas.

RANCH BARGAIN

One thousand acres, well located and well improved, timber, water and bottom alfalfa land. Price thirty-five dollars per acre, good terms. Crops are fine. Write for land list.

Justin T. Avery, Traer, Decatur County, Kan.

400 ACRES, unimproved, mile market, Norton County, Kan. 240 acres fine wheat, one-third of which goes with, land, \$45 acre. 280 acre improved farm, 220 acres corn and wheat, all choice smooth farm land, share crop to purchaser, \$55 acre. acre. 280 acre umproved tarm, and corn and wheat, all choice smooth fland, share crop to purchaser, \$55 at Easy terms.

McAuley & Eldred, Logan, Kansas.

EXTRA FINE FARM 200 acres, Eastern Kansas, 90 mi. K. C., right by good town and High School find large modern improvements, soil is fine; nonoverflow creek bottom, very best of grain and alfalfa land; this farm can't be beat and only \$160 per acre; for full description and picture; write E. B. MILLER, Admire, Kansas.

DAIRY FARM, Lawrence, 3 miles depot, 160 acres. 20 alfalfa, 15 wheat, 80 blue grass pasture, 6 timber, 60 valley. Orchard, water piped to buildings. House, 9 rooms; horse barn 32x40; cow barn 50x60; chicken house; stock shed; fences good. Price \$28,000, mortgage \$7,000. 6% due 1923. Possession 30 days; Hosford Investment & Mortgage Co., Dawrence, Kansas.

FOR SALE—A real farm in the oil and gas fields of Franklin county. 160 acres 5 miles of Wellsville. Highly improved. 8 room modern house, basement and gas for heat and lights. School on farm. 2 producing gas wells, all that has ever been drilled. Price \$175 per acre. Will carry \$15,500 for 4 years at 6%. Write for lists and pictures. J. T. Printy, Ottawa, Kansas.

ACRES WICHITA COUNTY KANSAS All smooth; all joining; 8½ miles from county seat; 5 miles from railroad shipping point. Fenced; abundance of sheet water; point. Fenced; abundance of small frame house; stabling and other outbuildings. Splendid proposition. Can give possession at once, For price and terms

possession at once.
address
D. F. CARTER, Leoti, Wichita Co., Kansas.

EASTERN KANSAS FARMS, Dairy District, Rock Roads, Borden Condensery, fine schools, factories, five railroads, 240 acres tillable, eight room house, good barn, windmill, two miles good town, \$18,000.

158 acres, mile Fort Scott, 90 crops, 30 meadow, 30 blue grass pasture, fair small improvements, underlaid with coal, high power line past farm, mining coal adjoining farm, only \$110 per acre. Farm, list.

Depue & Slaughter, Fort Scott, Kansas.

A Real Bargain

160 acres 3 miles of Waverly, 2½ of Agricola, 40 Acres wheat, 50 acres oats, 10 acres alfalfa, 35 acres timothy and clover, balance prairie and blue grass pasture, well watered, lays smooth, best of limestone soil, 1 mile of school. Good house of 6 rooms, new barn 30x44 ft., ismoke house, hen house, etc., all in good repair, telephone and rural maliprice 5110 per acre with best of terms.

GEO, M. REYNOLDS, WAVERLY, KANSAS.

KANSAS_

120 ACRES, 9 miles Ottawa, 2½ good town.
Good improvements, land lays well, well
watered. Possession fall. \$100. Write for

Dickey Land Co., Ottawa, Kansas.

160 A. KAW Bottom, 3 miles of Lawrence, fair improvements, fine farm. Priced right. 160 a., 3 miles from Lawrence, never failing water, very fine improvements. Priced at \$25 less than its value.

200 a. farm 15 miles from Lawrence, 3 miles from station on U. P. R. R., good improvements at \$90 per acre. Suburbar and city properties.

W. S. Clawson, 744 Mass. St., Lawrence, Kan.

OKLAHOMA

\$20 TO \$60 PER ACRE. Fine wheat, eats, alfalfa, corn and cotton lands. Write for free illustrated folder.
E. G. Eby, Wagoner, Okla.

ASK FOE illustrated list of good homes.
Wheat, corn and alfalfa land in the best part of Oklahoma. Also free map.
De Ford & Cronkhite, Watonga, Oklahoma.

FOE SALE—Land in East Central Okla-homa at from \$40 to \$60 per a that will raise as much corn, wheat or oats per a as will the same class of land in Eastern Kansas. For particulars write. Southern Realty Co., McAlester, Oklahoms.

820 ACRES 2 miles Oakwood, 140 cultivated, balance pasture, \$0 acres under woven wire, 4 room house, stable, granary, orchard, on State Road, % mile school. Price \$8,500, terms on half.

L. Pennington, Oakwood, Okia.

EASTERN OKLAHOMA
Unusual bargains in low priced farms with comfortable buildings for \$15 to \$65 per acre on good terms. Send at once for copy of our farm bulletin with complete descriptions of farm bargains.
Stuart Land Co., Heavener, Oklahoma.

270 A. RANCH PLACE in Delaware Co. for sale, 160 timber outside range, 110 prairie, 30 a, in crops. Off of R. R. in the midst of the good outside range. Town adjacent to land. Property has mercantile store bldg., a small residence, 2 small barns and 110 a. under fence. An exceedingly good proposition for buying and raising cattle and feed. Terms \$6,500, part cash and bal. 10%. C. L. Pratt, Jr., Bank of Picher, Picher, Okla.

MISSOURI

VALLEY FARMS—Fruit and berry farms Write, Chambliss & Son, Anderson, Mo.

LISTEN! Well improved 60 acres, nice house \$2,500, \$600 down. McGrath, Mtn. View, Mo

FREE—All about the Ozark country, map and list of cheap lands. Durnell Land Company, Cabool, Mc.

THE HOMESEEKERS GUIDE FREE, Describes 100 south Missouri farms.

Blankenship & Son, Buffalo, Missouri.

IF YOU WANT a large or small prairie or timber farm, pure spring water, no crop failures, write J. E. Loy, Flemington, Mo.

MISSOURI—\$5 down and \$5 monthly buys 40 acres truck and poultry land near town Southern Mo. Price \$240. Send for bargain list. Box 169, Mt. Vernon, III.

FINE MISSOURI FARM 290 acres, highly improved, in high state of cultivation, fine water, located in Polk County, Mo. Price \$55.00 per acre; to exchange for grazing land in Western Okla.

R. L. Presson, Bolivar, Mo.

ATTENTION FARMERS

Do you want a home in a mild, healthy climate, where the grazing season is long, the feeding season short, waters pure, soils productive? Good improved farms, \$30 to \$50 acre. Frank M. Hamel, Marshfield, Mo.

FARM HOMES In bluegrass, wheat, alfalfa and corn disicts, Missouri and Kansas. Convenient to
ansas City, Missouri, Get our complete
sts, maps, etc.
Mansfield Land & Loan Company,
Bonfils Bldg., Kansas City, Mo.

FARMS WEST CENTRAL MISSOURI
Well improved forties, eighties or larger
tracts, \$60 to \$150. Terms. 80 acres, 3 miles
R. R. town, 2,000 population. Good house;
large new barn; fifteen acres timber; balance
black limestone cultivating land; price \$115.
Weaver Land & Loan Company, Clinton, Mo.

ARKANSAS

WRITE TOM TETER, SHERIDAN, ARK. for bargains in good farms.

WRITE TOM BLODGETT LAND CO., Pine Bluff, Ark., for real bargains in farm lands. DOWELL LAND CO., Walnut Ridge, Ark. Fine corn lands, easy terms, plenty rainfall.

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

TEXAS

ONE cabbage crop often pays for the land in Lower Rlo Grande Valley. Save \$100.00 per acre by dealing with owner. L. W. Heagy, La Feria, Texas.

Wife the control of t

COLORADO

FOR SALE—My 820 acre improved farm. A bargain. Vern Garver, Kutch, Colorado.

EASTERN COLORADO.

Irrigated farms. Any site, ranches upland farms. Write for list.

C. A. Quimby, Granada, Celerado.

20 IMPROVED eastern Colorado farms for sale at bargain prices; terms; information and literature on request. Frank Sutton, Akron, Colo.

EASTERN COLO, LANDS OUR SPECIALTY Large lists, personally owned, selected lands, Live agents wanted. Wolf Land Company, Yuma, Colo,

MONTEZUMA VALLEY FARMS,
Both irrigated and dry ranches. Lailist. Information and literature on requirements finance & Land Co.,
Cortez, Colo.

· STOCK RANCH

Best stock ranch on western slope, 800 a. 100 in hay, 200 grain land, best water right for irrigation, joint fr range and forest reserve. 500 a. par e, partly fenced. Write for full descript a, terms and prica. Am 71 and must sell. Possession this fail. B. M. St. John, Owner, Emma, Colorado.

FARMS BOUGHT AT PRESENT PRICES
in the San Luis Valley, Colorado, are the
best investment a man can make, We offer
320-acre farm, 5½ miles of Alamosa, with
good improvements, 30 acres fine alfalfa,
fenced with woven wire, has first class
water right, for irrigation, fully paid up,
also has two artesian wells, for domestic
and stock use, on good highway, telephone,
and close to school. Price \$75 per acre.
We have farms of \$0 acres and up.

ELMER E. FOLEY,

1001 Schweiter Bidg., Wiehlta, Kansas.

Best Lands

I own 7,000 acres of the best farm land in East Colorado. Corn, wheat, kafir, etc. See our crops for yourself. This land was bought right and you may have it right. Write for facts—now. rite for facts—now. R. T. Cline, Owner, Brandon, Colorado.

IRRIGATED FARM LAND SOUTH CENTRAL COLORADO

On easy terms, with good permanent was ter right. Close to schools and market in settled going community where farmers raise alfalfa, field-peas, small grains, po-tatoes, abundant vegetables and raise and feed hogs and sheep. A large tract just opening for settlement. Write for informa-tion and literature to

Costilla Estates Development Company, 529-35 First National Bank Bldg., Denver, Colorado.

MISSISSIPPI

WRITE for free Mississippi map and land list. Land Market, Box 843, Meridian, Miss

MASSACHUSETTS

GOLDEN NEW ENGLAND farms with stock and tools. Send for a copy of "The Earth" today. D. B. Cornell Company, Great Bar-rington, Mass.

NEW YORK

IF YOU ARE LOOKING for a good farm of any size and for any purpose, near good markets, in the state of New York, especially in the Mohawk Valley, write to LEO J. FELD,

307 State Street, Schenectady, N. Z.

FLORIDA

FREE FLORIDA SUGAR FARMS—25 cents per acre monthly, gets any size farm. Profit Sharing Certificates guaranteeing money back, from profits of our farms with every payment. No interest. Owing to demand for sugar lands prices will advance \$1 per acre each month after June first. Buy now and make the profit. Free booklet. Ideal American Corporation, Johnstown, Fig.

NEBRASKA

80 ACRES of the best irrigated land, two and a fourth miles from Culbertson. \$309 per acre. A. B. Smith, Owner, Culbertson, Nebraska.

PIERCE COUNTY, NEBRASKA, FARM for sale. 160 a. 7 ml. from Pierce. 40 a. corn, 40 a. cats, 35 a. rye, bal. pasture. Good impa. Good water. \$125 a. Good terms, Good soil. Pierce Investment Co., Pierce, Neb.

MINNESOTA

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

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The Grain Market Report

lying strength, with a strong proba- crop movement, bility of a higher level of market prices The first ca than has prevailed in recent months.

est is not as abundant as a year ago. The first cutting in Kansas, and in surrounding states, while of good quality on the whole, was not up to the ity on the whole, was not up to the average tonnage, and many complaints have been heard of damage to the second crop by dry weather. In the Western states, however, including Colorado, the crop prospects are excellent, and yields thus far are fairly large. So far as the actual supply on markets is concerned, much depends on weather conditions the remainder of the season, soon enter the market for July, August If pastures continue as at present, a greater surplus will be available for commercial channels. Unlike previous years, Southwestern states are not drawing on the surplus of Kansas, Oklahoma, Missouri and nearby territory, excellent pasture conditions in Texas

carcellent pasture conditions in Texas holding hay purchases at a minimum. Choice grades of alfalfa hay are holding around a top of \$32 a ton, with the cheapest grades down to \$14 a ton in Kansas City, compared with an extreme range of \$11 to \$31 a year ago. Prainle sales are largely between \$13 to \$19. Timothy and clover mixed, which only recently began their downwhich only recently began their downward readjustment to a new crop basis, are selling at a range of \$17 to \$29 a ton. Timothy is expected to recede \$4 to \$5 a ton before it reaches a settled level; and with the increasing supply of new crop tame hay, it is probable that a top around \$25 will be reached before the close of July. In the event of a downturn of about \$5 in tame hay, all forage would be on a normal parity condition which has not prevailed in

The slowly declining tendency of the

SALE OR EXCHANGE

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

FOR SALE AND EXCHANGE
Northwest Missouri farms, the greatest
corn belt in the United States. Also western ranches. Advise what you have.
M. E. Neble & Co., St. Joseph, Mo.

REAL ESTATE WANTED

HAVE CASH BUXERS for salable farms. ion and cash price. Iorris M. Perkins, Box 378, Columbia, Mo

MISCELLANEOUS

SELL YOUR PROPERTY quickly for cash, no matter where located, particulars free Real Estate Salesman Co., 515 Brownell, Lincoln, Nebraska.

LANDS ON PAYMENTS, nice smooth level lands, good deep soil, some of these quarters now in crops. Near the new railroad running from Shattuck, Okla., to Spearman, Texas. \$25 to \$30 per acre, one-sixth cash, balance yearly payments and interest. Write for literature.

John Ferriter, Wichita, Kansas.

MANDLE MORE BUSINESS? Are you getting all the business you can handle? If not get big results at small cost by running a classified ad in Capper's Weekly. The Great News Weekly of the Great West with more than a million and a quarter readers. Sample copy free for the asking. Only 8c a word each week. Send in a trial ad now abile you are thinking about it. you are thinking about it. Capper's Weekly, Topeka, Kan.

Farm & Ranch Loans

Kansas and Oklahoma

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

TEW crop readjustments have not wheat market, which has been in procarried alfalfa and prairie gress for some weeks, has been in proprices down as sharply as in tially checked, and some observers hold recent years. While there is some to the belief that the downward tenquestion as to whether the readjust-dency has been halted for some weeks ment process has been completed, the to come. A very firm tone is evident action of the market thus far on the in the trade, which is particularly ennew crop movement indicates under-couraging on the threshold of a new

The first car of 1920 crop year reached the Kansas City market July than has prevailed in recent months. Bullishness on hay at the threshold of a new crop season is quite unusual, and 40 per cent hard, with a test the trade generally operating with extreme cautiousness at this time, owing to pressure of new hay from the courtry and reduced demand caused by utilization of pastures.

Alfalfa Supply Limited

The supply of alfalfa in the Southwest is not as abundant as a year ago. prospects are not encouraging for a

heavy movement.

anticipated and a temporary absence of demand from feeders have brought about a further recession in corn. The carlot market has reached the lowest point in more than two months, the best grades of white corn being available around \$1.72 a bushel in Kansas City, with choice mixed feeding corn at \$1.65. For the feeder who must and even September requirements, purchases at the present time seem advisable. The carlot movement will soon diminish owing to a diversion of cars to the wheat belt. Advances in the hog market also are aiding the po-stion of corn. Excellent crop pros-pects are having a depressing influence on the speculative market, de-clines of 2 to 5 cents having occurred on the July and September, while De-cember gained 4 cents. Carlots declimed 5 to 15 cents a bushel.

Erratic price movements, such as oc-curred the past week, have seldom been witnessed in the oats market. In a single day carlot prices receded about 10 cents a bushel following earlier losses, but the market has since regained the entire declines. White oats are selling at a top of \$1.14 a bushel. The speculative market showed units The speculative market showed unimportant changes. New oats are moving very slowly, no important quanti-ties expected until early August. Evidence of bullishness in the mar-

ket for cottonseed feed is contained in the action of cake and meal operators. Feeders are buying more freely, demand having been stimulated by the improved position of choice fat cattle. Still, feeding demand is not heavy, fertilizer interests and mixers buying the bulk of meal available. Stocks of prime grades of cake and meal have dwindled sharply, and slight advances in prices may occur as the summer demand broadens. Cake and meal of 43 per cent protein content is bringing around \$62 a ton, basis Texas points, and about \$64 in Oklahoma. New crop cake for September shipment sold as high as \$64 a ton in Texas the past week, the largely at a range of \$60 to \$62.

Dairy Judging Contest

Seventy-two men competed in the annual dairy cattle judging contest staged by the dairy department stu-dents of the Kansas State Agricultural college recently. The prizes were offered by the Students' Dairy club, the different breed associations of the state, The Blue Valley Creamery company and several farm papers.

Eight classes of stock of the four dairy breeds were placed, four of cows and four of heifers and reasons given on each of the cow classes.

The first prize winner was A. D. Webber of Norton, Kan., who was awarded the gold medal offered by the dairy club. Webber was also first in judging Holsteins, but as no contestant could receive more than one prize, the Holstein silver medal offered by Holstein-Friesian association of Kansas went to E. W. Winkler of Rozell, Kansas, who was the second highest man on Holsteins.

Second place was won by W. A. Atchison of Topeka, Kan., who received a silver medal offered by the dairy club

and a year's subscription to Hoard's Dairyman. Third place was won by George Drumm of Winfield, Kan., the prize being a bronze medal offered by the dairy club and a year's subscription to Hoard's Dairyman.

The silver medal offered by the Kan-sas Jersey Cattle club for the first

prize winner in judging Jerseys went to J. M. Moore of Stockton, Kan., and the Ayrshire silver medal, offered by the Kansas Ayrshire Breeders' association, went to T. R. Baumgardner of Manhattan, Kan.

Manhattan, Kan.
P. W. Houston of Twin Falls, Idaho, stood highest of the freshmen competing and was awarded \$5, offered by the dairy club. A loving cup offered by the Blue Valley Creamery company to the students' agricultural organization making the highest score was won by the Students' Dairy club, whose five highest men outranked the score made by any similar group. made by any similar group. .

The classes judged were officially placed by W. E. Petersen, extension specialist in dairying at the Kansas State Agricultural college.

A Great Holstein to Kansas

At the national Holstein-Frieslan Freer arrivals than the trade has sale in June, one of the greatest bulls aticipated and a temporary absence sold was bought for Kansas. Mott &



Branch of Herington and David Coleman & Sons of Denison were the buyers. The bull is King Watson Segis to the city.
Star, a son of the King Segis Pontiac
Count. The dam is a 28-pound cow
Many of with a 1,000-pound yearly record. She soils of Southeastern Kansas would be is the highest yearly record daughter helped greatly by applications of of Sir Johanna Fayne and a grand- ground limestone.

"NOT ENOUGH TO FILL ORDERS"

Kansas Farmer and Mail and Breeze—Please discontinue my livestock ad for July. I have so many inquiries already that I expect not to have enough heifers to fill orders. Should I not sell out, I will continue the ad during August. Very respectfully, A. M. Davis, Breeder of Holstein Cattle. July 1, 1920, Hutchinson, Kan.

daughter of Sir Fayne Concordia, full brother to Grace Fayne 2d's Homestead, whose record was 35.55 pounds of butter in seven days.

The sire of King Watson Segis Star has shown himself to be one the great-est sires of the breed. His daughters have broken more than 100 world's recnave broken more than 100 world's records. He comes from world record-breaking breeding. His dam broke the world's milk record in the 365-day division of the junior 4-year-old class. His sire's dam, the first 37-pound cow, was also the first cow to produce 1,270 pounds of butter in a year. This hull 5 years old never has been

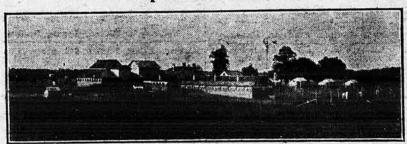
This bull, 5 years old, never has been defeated in the show ring. He has great length of body, unusual length of hip, very straight top line, great ca-pacity and was pronounced by the Kansas delegation who attended the sale as a remarkable individual and a very valuable asset to the Holstein industry of this state. More money was paid for him than for any other Holstein bull that has ever come to the state and it was said by judges of values that had he sold in the second day of the sale instead of the first that he would have brought more than double what was paid for him.

More good community centers are needed in Kansas. They are helpful in providing a brighter social life, and thus stopping the drift from the farms

Many of the shale and sandstone

Why The Livestock Service

of the Kansas Farmer and Mail and Breeze as well as of the other members of the Capper Farm Press Is Represented In Iowa



This picture pretty well answers the question of why the Livestock Service of the Capper Farm Press has two representatives in Iowa. Kansas, Nebraska, Missouri and Oklahoma readers of the Capper farm papers have reason to look upon Iowa as the greatest outside source of improving blood for the herds and flocks of their respective states. Iowa rightly holds that rank for the United States, and few western breeders who aspire to produce the best, fall to visit (personally or by proxy) the leading Iowa herds in their particular lines.

Right now most sections of the states named, are relatively lower than for several years, in breeding animals. The need of getting the best while replenishing their herds, is greater than ever before and Iowa affords the nearest and biggest surplus of good-purebred livestock in the world. A survey of announcements of public sales to be held in the six months following March 1, 1920, showed 365 sales for Iowa as against a total of 439 for Nebraska, Missouri, Kansas and Oklahoma. The Iowa money invested in herds and equipment for the production of a high class surplus, is even greater, relatively, in comparison with the same states. Our picture, showing the typical improvements, and a little of the farm of J. A. Witte of Osage City, Ia., who specializes in Duroc Jersey hogs, illustrates the point.

Breeders of the Southwest will do well to recognize this situation, for the opportunities to the North and East to buy improving blood worth the money probably will appear with increasing frequency during this and ensuing years. Nebraska, Missouri, Kansas, Oklahoma, Colorado and Texas are in the natural trade territory of Iowa breeders, and our readers in these states are invited to apply to this department for any information on Iowa herds, and (in the case of sales advertised in this paper) to send buying orders if they wish, to our representatives who travel in Iowa, George L. Borgeson and Glen Putman, in care of the parties holding the public sales. In order to make best use of this ser

The addresses of Mr. Putman, Mr. Borgeson, as well as our territory managers for Kansas, Nebraska, Missouri and Oklahoma, appear below. managers for Kansas, Nebraska, Missouri and Oklahoma, appear below.
John W. Johnson, Northern Kansas, 820 Lincoln St., Topeka, Kan.
J. T. Hunter, Southern Kan, and W. Okla., 427 Pattie Ave., Wichita, Kan.
J. Cook Lamb, Nebraska, 3417 T St., Lincoln Neb.
Stuart T. Morse, Okla. and S. W. Mo., 7½ So. Robinson St., Oklahoma City.
O. Wayne Devine, Western Mo., 300 Graphic Arts Bldg., Kansas City. Mo.
Harry R. Lease, Eastern Mo., and So. III., Centralia, Mo.
George L. Borgeson, N. E. Neb and W. Ia., 1816 Wirt St., Omaha, Neb.
Glen Putman, Iowa, 2808 Kingman Blvd., Des Moines, Ia.

E. S. Humphrey. Office Manager, Topeka, Kan.
T. W. MORSE, DIRECTOR AND LIVESTOCK EDITOR.

Livestock Service Capper Farm Press, Topeka, Kan.

The Livestock Markets

hurry to acquire stocker and count on the largest selections: feeder cattle for feeding pur-Month / 1919 1918 1917 19 While it is true that the movement of grass cattle out of which stocker and feeder supplies are obfained is daily increasing, stocker and fained is daily increasing, stocker and feeder buyers have not yet given any indication of a rush to make purchases. Of course, feeders do not like to stock up before they are confident of a good corn crop. This is a factor in the present quiet stocker and feeder trade. Even more influential have Even more influential, however, is the influence being exerted by country bankers to restrict buying and the desire of feeders to pursue a cautions policy in order to avoid a repetition of the disastrous feeding operations of the past year.

Factors That Influence Buying

Corn crop prospects are bright. If there is no deterioration, then the supply of corn will offer every incentive to purchase cattle for feeding. However, no matter how well the corn crop fares, it is probable that stocker and feeder cattle, particularly feeders, will be available at prices lower than the current quotations. At this time a year ago lower prices were in prospect

No Rush for Stock Cattle

Buyers will have the advantage in the stocker and feeder cattle market this season. Prices are already lower than a year ago, but further recessions are probable as the grass cattle marketing season progresses. Present indications point to the lowest prices the latter half of the season.

on account of a serious drouth in the Northwest. No portion of any extent in the West or Southwest has unfavorable pasture conditions which promise to force premature marketing of cattle. But calling of loans is going to enlarge receipts. Packers are already more discriminating in buying grassers, taking only those which are well finished. They will probably be in a position to continue their discrimination, and this should result in leaving more feeder grades of steers to buyers from Kansas and other states.

Grass cattle will move, according to present indications, fully as early as last year. It is probable, however, owing to the widening of the margin between fat and thin grassers, that the latter part of the range cattle moving season will be the lowest so far as prices are concerned on stockers and In the event of some terioration in corn and a period of dry weather in some range areas, the chances for lower prices later in the season will multiply.

Five Year Shipping Record

In beginning to look forward to the stocker and feeder outlook in the 1920 season, every feeder must bear in mind the months which usually witness the largest supplies. October stands out as the month of largest cattle receipts and the period of the heaviest shipments of stockers and feeders.

The following table shows the shipment of stockers and feeders from Kansas City between July and December the past five years:

Month

Best Time to Buy

It is not always that the months of the largest stocker and feeder ship-ments bring out the lowest prices. In order to decide as to the time for makewes at \$2 to \$3. The top on choice lambs closed at \$14 on natives. Desider the trend of receipts at the principal markets. The following table, giving the combined monthly receipts of cattle at Kansas City, Chicago, Omaha, St. Louis, and St. Joseph the past five years, in thousands of head, should give the prospective stocker and ewes at \$2 to \$3. The top on choice lambs closed at \$14 on natives. Demoralization continued in wool last week, and New Zealand imports of mutton were again felt.

Power farming has done much to increase the man production of the farmers of the Middle West.

ANSAS feeders need be in no feeder buyer an idea of when he can

Month / 1919 1918 1917 1916 July 790 922 788 518 Aug. 873 898 790 791 Sept. 1,080 1,187 1,020 852 Oct. 1,806 1,307 1,299 1,136 Nov. 1,122 1,174 1,132 993

A comparison of prices on the top sales of stockers in the principal months of the past five is also interest. ing to the prospective buyer. The figures for last-year show that September and October were the low months. Comparisons for Kansas City the past five years, giving the tops on stockers between July and December, follow:

Month 1919 1918 1917 1916 July \$12.50 \$13.50 \$10.35 \$8.50 Aug. 13.50 13.00 10.75 8.25 Sept. 11.00 13.80 10.35 8.05 Oct. 11.00 13.80 10.35 8.05 Nov. 12.25 13.35 12.10 7.80

Feeding plans often determine to a large extent the time for making stocker and feeder purchases. Where buying can be postponed, it appears a desirable move. Prices are now \$1 or more lower than a year ago. While Kansas City will play a bigger part in the trade this season than last year, when drouth shipments from the when drouth shipments from the Northwest reduced competition on that market, buyers are going to have the advantage. Stocker and feeder prices declined 25 to 50 cents last week, and it would not be a difficult matter to take off \$1 or \$2 more between now and October.

Naturally, those who have stockers and feeders to sell will profit most, according to present indications, by making early shipments. If cattle of the feeder class can be held and fat-tened well enough for packers however, that should be done.

Quotations on Stockers

Quotations on stockers and feeders Kansas City are between \$8.50 and \$13.50 on the latter and \$5.75 to \$11.25 on the former. Stock cows and heifers are between \$4.50 and \$8.50. Stock calves are available at \$6 to \$10. Compared with recent years, these are low prices, but the market is not yet cheap by any means.

Fat cattle receded 25 cents to \$1.50 last week, with choice cornfeds losing 25 to 50 cents and medium grades de-clining 50 cents to \$1.50. The green grassers were the weakest offerings. The top sale, \$16.80, compared with \$17.25 the preceding week. Straight Kansas grassers were quoted at \$10 to \$12, while Kansas wintered grassers ranged between \$12.50 and \$15.50. Canranged between \$1.30 and \$10.00. Canner cows, which fell as much as \$1, sold as low as \$3. What a change from the \$7 and \$8 market on canners during the war! The bulk of cows went to packers at \$6 to \$9. South Texas continued a heavy shipper of Texas continued a heavy snipper of grass-fat steers, sending in one lot of 5-year-old Shorthorns, averaging 1,431 pounds, which sold at \$13.75 on the quarantine division, a record price. These were straight grassers. South Texas, owing to exceptional grass, is rexas, owing to exceptional grass, is selling more cattle with far more flesh than a year ago and will continue shipping thru July. The Kansas movement is increasing, too. The entire West has such good grass that it will make more beef than expected. Calves were 50 cents to \$1 lower, with a top of \$12.50.

Hogs Show Bullish Tone

Erratic action marked hogs, but a bullish undertone prevailed, and higher prices are expected. A top of \$16.15, a new high for the year, was paid, but the net gain was only about 25 to 40 cents. Prices at Kansas City were the net gain was only about 25 to 40

1919 1918 1917 1916 28,615

1916 60,284 63,385 41,685 28,615

192,063 119,933 93,900 112,980 56,381

126,632 159,074 131,752 123,150 133,684

167,429 174,692 130,670 178,372 185,090

121,125 140,025 142,706 100,774 161,401

the net gain was only about 25 to 40

cents. Prices at Kansas City were higher than at Chicago. Grass hogs and big sows were at a discount of \$1

to \$2 under the general market last week.

Depression continues in sheep and lambs. Ridiculously low prices prevail on plain lambs and sheep. Plain lambs are as low as \$4 to \$5 and medium ewes at \$2 to \$3. The top on choice lambs closed at \$14 on natives. Demoralization continued in wool last week, and New Zealand imports of muttern were again falt.

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Our man is at the chutes waiting for them, no matter when they arrive, day or night, Sunday or other days, they are promptly cared for. They are driven to our pens with the utmost care. Our men are not armed with clubs and do not abuse stock as we positively will not allow it.

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Hume Herd Chester White Hogs For sale. 4 fall boars, well grown and ready to use priced for quick sale \$50 to \$65. First check get choice; satisfaction guaranteed or money refunded; 50 gs priced in pairs and trios not akin. Write CLAUDE B. THOMPSON, HUME, MO.

Chester Whites For Sale Anything you want in purebred Chesters from aged hogs down to June pigs. Write for prices, breeding and full description. We register free and guarantee satisfaction. Please mention this paper when writing, P. B. SMITH & SONS, HEALY, KANSAS

Kansas Herd Chester Whites 18 fall gilts sired by and out of Kansas state-fair prize winners. Bred to Dea Big Jee. Descriptions and prices by return mail. Arthur Mosse & Daughter, Leavenworth, Kan.

Chester Whites Gilts sired by the grand champion Prince Tip Top and bred to Tonganoxie Chief for September pigs; \$45 each. A few more fall boars; also March and April boar pigs, \$25 to \$40. HENRY MURR, TONGANOXIE, KANSAS

O. I. C. REGISTERED PIGS for sale; Nat. prize-winning show blood. Price \$15 each at weaning time. Earl Anderson, Elwood, Mo.

Registered Chester White Pigs Six weeks old; either sex; \$18.50 each. Double treated. EARL F. SCOTT, BELVIDERE, KAN.

A Few Choice Purebred Chester White

O. I. C. PIGS Either sex; E. S. ROBERTSON, REPUBLIC, MISSOURI CHESTER WHITES—Fall and spring gilts, spring boars. Chickasaw Kossuth and Chief Keokuk strains, Satisfaction guaranteed. E. E. Smiley, Porth, Kan.

BIG CHESTER WHITE GILTS AND SOWS for Sept. farrow. \$50 and \$60 each for quick sale. W. K. MUELLER, St. John, Kansas.

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ard improving boars for sale; grandsons of Cald-ll's Big Bob, grand champion World on one side, did of William's Wonder Giant Joe and Liberty Bond the other side. Immunized against cholera and ready for service. The Hall Stock Farm, Coffeyville, Kansas

Poland China Hogs

Large Type, full blood Glits and Boars, right age for breeding. They will give you satisfaction. Priced to sell. Call on or address Stony Point Stock & Pairy Farm, Carlyle, Kan.

Gilts Bred For Sept. Farrow

Spring pigs immuned and ready to ship.
Satisfaction guaranteed.
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H. C. Sheldon, Supt. Swine Dept.

HUFF'S SQUARE JUMBO A son of P. W. Young's Square Jumbo heads my erd. He is the kind that sires the high-up kind and hig litters. Write me to price you a real hoar pis it three months old. Chas. Hoffhine, B. 4, Washington, Kansas

Ross & Vincent's Poland Chinas Gilts and boars, Sept. and Oct. farrow. A few bred sows. Herd sires are Sterling Buster and Sterling Timm, two of the breed's best boars in Kansas. Timm, two of the breed's best boars in Kansas. The hope we are offering are good both in individuality and in breeding and are priced right. Satisfaction guaranteed. ROSS & VINCENT, STERLING, KAR.

Big Type Polands

We now have a fine lot of spring pigs for sale. Also now have a fine lot of sek Buster. Cholera immuned. Satisfaction guaranteed.

Frank L. Downie, Route 4, Hutchinson, Kan.

Big Type Polands—Big Wonder Blood ew fall gilts and 2 boars; good ind and well marked; priced right. C. KAYSER, BUSHONG, KANSAS.

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REGISTERED SPOTTED POLAND BOARS dandy spring pigs of English breeding.

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The old-fashioned, big, long, big-boned, prolific hogs of grandfathers' day. The most profitable, beautiful, and popul breed in existence. We have stock of all ages for sale, from weanling pigs to tried sows. Write for prices, photographs, and full information. Everything thoroughbred, registered, vaccinated, and insured, and guaranteed satisfactory or no trade. You can either buy by mail or come to our big sale. HENRY FIELD SEED CO., SHENANDOAH, IOWA



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70 Spring Durocs, 9 Sows and a Herd Boar

My herd of Durces is too large for me to care for and attend to other necessary work. Will sell at as low priced as possible: Sow by King Sensation, a son of Great Wonder I Am and her S as by a sen of Pathinder: A Golden Model bred sow out of Walla Belle, a Kan, grandchampion; sows out of the Golden Model sow and by a son of Potentate, a Defender bred boar. Excepting a Pathfinder plus all spring pigs are out of these sows and by the herd boar, a son of King Orion, winner at Meb., Iowa and Cal. state fairs and National. These Durces are good individuals first clear condition. Priced to more quickly. Wills folds. URS. MATTIE HAZELL, 404 N. MONROE ST., HUTCHINSON, KAN.

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We offer spring pigs of both sexes by fugator Orion, Mc's Big Bone Giant, meation Climax, Lawndale Disturber, ck's Pat Orion, and Great Pathfinder. rite your wants in good Durocs.

Plander & McClelland, Clarinda, Iowa.

BIG Type Durocs rall rits by Great Wonder Model bred to Pathfinder, for Facrines by Fathfinder Jr. dams bred to Shepenergy orion Sensation. Senior yearlings by Pathinder Ar. dams bred to Shepherd's Orion Sensation. It was need for Sept. farrow. Big yearling boars of Pathfinder Jr., spring boars by Shepherd's Orion Sensation, Orion's Amplitter, etc. All priced to sell. G. M. SHEPHEED, LYONS, KANSAS

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ring pigs, both sexes. Great Wonder alo: registered: immuned, double treatint; satisfaction guaranteed.
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Is copy fall boars for sale. Sired by Chief's Wonder, Pathfinder Jr., and I Am Great Wonder; from big matture sows. One of the best sow heres in Kanass. Friced to sell at once. G. B. Wooddell, Winfield, Kan.

McComas' Durocs Fill boars: Great Sensation and Pathfinder breeding spring boars: Orion Cherry King and Pathfinder seconding. Good supply of good individuals priced rea-topashy. Write, phone or call at my place. W. D. McComas, Box 455. Wichita, Kansas

Gilts Practically All Sold but we have a few good fall boars sired by Unceda High Orion our Grand Champlon bear, 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.

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toppy bunch of fall gilts and boars ready or service, sired by Uneeds King's Col., rheed to sell. Also spring plgs of classy reading. Geo. W. Mueller, St. John, Kan.

FULKS BIG TYPE DUROCS
For sale-Two extra good spring rearing bears.
Spring boar pige after weaned and immune 350 to
160. Bipping good ones sired by I Am A Great
Wonder Giant (grand champlen at the Kansas National Show) and Victor Sensation, a real bear, guaranteed to please. W. W. FULKS, TURON, KANSAS.

High Sensation Jr. will be shown this fall and is called a winner by those who see him. 12 April, May and June glits bred to kim and Fogo's invincible for Sept. farrow. Prices and descriptions by return mail. V. L. Fogo, Burr Dak, Kan, Jewell County.

Sensation-Pathfinder-Orion Durocs Sows by son of Great Sensation and out of sows by son of Pathfinder. Most of them bred to son of Great Orion to farrow July and Aug. Spring pigs both sex same breeding. Immuned satisfaction.

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Tuse fall boars—I by Joe King Orion, I by Great Orion Sensation, I by Golden Wonder. You can't best this breeding and the individuals are good. F. J. MOSER, SABETHA, KANSAS.

eath Farm Durocs For sale: '7 fall gilts bred for Sept, farrow.' 3 fall boars. Young boars (March farrow)

and bred right for sale. A. B. MORRIS, MGR., MANHATTAN, KAN **National Champion Boars** Three August boars by Great Orion Sensation, splandid individuals. A great Pathfinder 2-year-old our for sale. 12 or 15 spring yearling and fall gits, gtenso Pathfinder and Orion breeding, wis Bros., Morrowville, Kan., (Washington County)

Choice September Gilts
Bred for September farrow, \$65; March pigs,
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PARK PLACE DUROCS Spring pies farrowed April 20-25; out of big matur-sows and my boar Perfection by Orion King, Stricti good, practical pigs at farmers prices. Gits \$25 boars \$25. I pay second see, Batinsedion guaranteed O. L. TOADVINE, DIGHTON, KANSAS

Duroc Pigs, Express Prepaid
Ten glits farrowd 83 pigs March littera.
Sell at weaning, Col. Wonder, etc., immuned,
suaranteed, express prepaid. Write today,
overstake Bros., Atlanta, KAN.

DUROCS Defenders! Largest herd of intensely bred Colonels in the West. Breeding stock of all ages for sale. DAYTON CASTLEMAN, BUNCETON, MO.

BRED FOR SEPTEMBER FARROW
Tried sows and fall gilts bred to Pathfinder Sensation,
Col. Sensation and Western Orion. They are by Highland Cherry King and Pathfinder Sensation.
Raiph P. Wells, Formeso, Kan.

PUREBRED DURGE PIGS for Sale — Well grown, good color, immuned, 2 months old. Either sex at \$20 each. Write your wants GEO. G. BARKER, R. 4, Junction City, Kan.

HEREFORD CATTLE

Discriminating Hereford Buyers We offer NOW

12 coming yearling bulls, Columbus, Anxiety strains. Breedy character and proper conformation. Unpampered but in better than pasture condition. 7 registered, 5 unregistered, but squally well bred. All high class farm bulls.

If you want one or more of the 18 yearling bulls write now to W. C. Cummings, Hessien, Kan.

250 REGISTERED HEREFORDS

Headed by Don Balboa 14th 596021, by Don Carlos 263493. For sale—50 cows about half with calves at foot; 20 open helfers; 15 bred helfers; five good young bulls, herd header prospects. LEE BEOS., HARVEYVILLE, (Wabaunses County), KANSAS.

ANXIETY BRED HEREFORD COWS cows and one herd buil at \$250 each cows have calves at foot; other will also soon. Am retaining the calves. For further particulars address.

E. C. MUNSELL, RUSSELL, KANSAS.

SHORTHORN CATTLE

Genuine Herd Bulls by Master of the Dales and out of Collynie Bred Cows

Master of the Dales bulls are proving themselves splendid breeding bulls and we can show you a few real bulls of first class herd heading character.

They are a practical, husky and well grown lot that will appeal to breeders wanting bulls of real merit.

H.M. Hill, La Fontaine, Kan.

1886 TOMSON SHORTHORNS 1920

200 high class cattle of most popular strains. Sires: Village Marshal and Beaver Creek Sultan. Several extra good young herd bulls for sale. Address

TOMSON BROS.

FOR SHORTHORN BULLS

All ages. Address **HUNT BROS., BLUE RAPIDS, KAN**

POLLED SHORTHORNS.

10 POLLED SHORTHORN BULLS

Clean Up the Stable Fly

Have you ever tried to sleep on a hot summer night when just one mosquito had crept thru the window screen? Imagine your state of mind if that single mosquito were multiplied by 100 and you had your hands tied!

That sensation, according to the Bureau of Entomology, United States Department of Agriculture, is something comparable with what a horse, mule, or cow endures when the stable fly is present in great numbers.

present in great numbers.

The stable fly greatly resembles the ordinary house fly but for the lance with which he is armed. It is known that he carries disease from infected animals to healthy ones, and there is some ground for belief that the insect aids the spread of spinal meningitis

among human beings.

The eggs of the fly are laid in loose, warm straw heaps and piles of horse manure or stable refuse. A plague of flies always starts from these sources, and the control of the pest is best manand the control of the pest is best managed by scattering the refuse early in
the spring before the beginning of
warm weather and plowing it under,
or by burning it when the former
method can not be applied.
Stable refuse should be scattered at
regular intervals of one week or less

thruout the season, starting with early thrnout the season, starting with early spring. In this way the first generation of the pest is destroyed and a plague averted. A recent publication of the United States Department of Agriculture, Farmers' Bulletin 1097, gives in detail the life history of the stable fly, methods for its control, and some facts concerning the amount of damage done by the insect. damage done by the insect.

More Sheep for Kansas

BY A. M. PATERSON

The sheep population in this country must be increased if the people are to be supplied with food and clothing.

It is estimated that we now have about 25 per cent fewer sheep on the farms and ranges in the United States than we had 10 years ago. If this condition continues to prevail more shouldy than we had 10 years ago. If this condition continues to prevail more shoddy will be used in the manufacture of clothing, which will result in an inferior grade of cloth; and if the producer still has to continue in competition with the rappicker our sheep population will continue to decrease, which means less food and less clothing material of the highest quality.

The people are beginning to realize the value, of lamb and mutton as a food; as it is the most healthful, most nutritious and many people think it the most delicious of meats.

Shorthora Cattle.

Oct. 7—A. L. & D. Harris, Osage City, Kan. Oct. 13—Northern Kan. Sorthorn Assn., at Smith Center, T. M. Willson, sale manager, Lebanon, Kan.

Oct. 13—Northern Kan. Shorthorn Assn., at Smith Center, T. M. Willson, sale manager, Lebanon, Kan.

Oct. 13—Bast Kansas Shorthorn Breeders' Assn. Stale 'Pleasanton, Kan. E. C. Smith, Sec'y.

Oct. 14—Linn Co. Shorthorn Breeders' Assn., Robt. Russell, Muscotah, Kan. E. C. Smith, Sec'y.

Nov. 4—L. L. Early, Oronogo, Mo.

Nov. 4—L. P. Flanmagan, Chapman, Kan.

Breeders Assn., Concordia, Kan., E. A.

Cary, Talmon, Shorthorn Assn., at Smith Center, T. M. Willson, sale manager, Lebanon, Kan.

South Center, T. M. Willson, sale manager, Lebanon, Kan.

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South Center, T. M. Willson, sale manager, Lebanon, Kan.

South Center, T. M. Willson, sale manager, Lebanon, Kan.

South Center, M. C. C. Smith, Sec'y.

Oct. 14—Lain Co. Shorthorn Assn., Mct

the most delicious of meats. There is a place for a great many more sheep on the farms of this coun-

try and this increase in number could maintained with very little extra

feed and labor on the average farm.

Many farmers feel that sheep are difficult to care for. This is a mistake, as sheep are as easy to care for as any other class of livestock. With the prevailing conditions and by proper feed and management a flock of sheep will pay good returns on the investment.

The person who is planning to raise sheep should first take an inventory of himself and determine what he knows himself and determine what he knows himself and determine what he should have been should contain the should have been should first take an inventory of himself and determine what he knows himself and determine what he should have been should contain the should have been should first take an inventory of himself and determine what he knows himself and determine what he knows himself and determine what he should have been should first take an inventory of himself and determine what he knows have been an inventory of the contained hereington, kan.

**Nov. 29-20—Holstein W. H. Mott, Man, W. H. Mott, Man, W. H. Mott, Man, W. H. Mott, Man, Aug. 25—The Deming Ranch, Oswego, Kan, H. O. Sheldon, Supt. Supt.

then get some literature pertaining to the subject and learn something about the feeding and care of sheep. There are several phases of sheep husbandry which can be practiced on the average farm. Western Ewes

The buying of aged Western ewes that have good mouths, breeding them to good mutton rams, shearing them in the spring and fattening them for market after the lambs are weaned is an excellent way to make good returns on the investment and at the same time get some experience in handling sheep with this rugged class of animals.

In the selecting of these animals care should be taken to get the ewes uniform in conformation, free from gummers and spoiled udders. Care should also be taken in the selection to get good fleeces. After these matters have been given due consideration the success will depend on the feed and care the ewes receive.

The farm flock consists of a few ewes that are maintained to keep the farm in a neat condition, to supply fresh meat for family use and to consideration, fresh meat for family use and to consideration to get good fleeces. After these matters have been given due consideration the success will depend on the feed and care the ewes receive.

The farm flock consists of a few ewes that are maintained to keep the farm in a neat condition, to supply fresh meat for family use and to consideration the success will depend on the feed and care the ewes receive.

The farm flock consists of a few ewes that are maintained to keep the farm in a neat condition, to supply fresh meat for family use and to consideration the success will depend on the feed and care the ewes receive.

The farm flock consists of a few ewes that are main

sume feeds that are usually wasted. These flocks are generally made up of native ewes and ere a distinct unit in

the system of farm management.

The production of purebred sheep for breeding purposes is a specialized industry and in order to be successful along this line the animals should have special management as to breeding, feeding and care.

A mistake often is made by the beginner buying inferior foundation stock. This, with the lack of experi-ence, turns the adventure into a failure and consequently this person gives the sheep industry a black eye.

The beginner who is going to raise purebred sheep for breeding purposes should first have some experience, next he should select a breed that is popular in the section where he is going to dis-pose of his surplus. He should select good animals for the foundation of the He should use the best rams possible in order to improve the off-spring. He should properly develop the lambs. Most of his business will

he mail orders, therefore all of his dealings should be honest.

The fattening of Western lambs, like other feeding operations, is more or less of a gamble. However, if the lambs are properly bought, fed and managed they offer apparturation for managed they offer opportunities for the small farmer to utilize his unmar-ketable feed at a profit, give him labor during the winter menths and maintain the fertility of his land.

Public Sales of Livestock

Hereford Cattle.

Hereford Cattle.

Sept. 5—J. O. Southard, Comiskey, Kan., at Emporia, Kan.
Sept. 8—Ed Nickelson, Leonardville, Kan.
Sept. 8—Northern Kanass Hereford Breeders Assn., Blue Rapids, Kan., C. G. Steele, secretary and sale manager, Barnes, Kan.
Sept. 17—Morris County Consignors sale at Council Grove, Kan. W. A. Howard, Mgr., Comiskey, Kan.
Sept. 27—John J. Phillips, Goodland, Kan.
Sept. 28—Foster Farms, Rexford, Kan. at Colby, Kan.
Oct. 5—J. O. Southard, Comiskey, Kan.

Angus Catile.
Oct. 16—Boys' Caif Club, Effingham, Kan.
Frank Andrews, Mgr., Muscotah, Kan.

Shorthorn Cattle.

Heistein Cattle,

July 17—Robinson & Shultz, Independence,
Kan. W. H. Mott, Sales Mgr., Herington, Kan. W. H. Mott, Sales Markan. W. H. Mott, Sale, Hutchinson, ct. 18—Consignment Sale, Hutchinson, Kan., W. H. Mott, sale manager, Herington, Kan. Holstein-Frieslan Asso. of Kansas, Wichita, Kan., W. H. Mott, manager, Herington, Kan.

Kan.
Oct. 19—Morton & Wenrich, Oxford, Kan.
Oct. 20—Fred G. Laptad, Lawrence, Kan.
Nov. 3—E. E. Hall, Bayard, Kan.
Dec. 1—David Coleman & Sons, Dennison,
Kan., at Topeka, W. H. Mott, sale managar, Herington, Kan.
Jan. 14—Bannes & Harvey, Grenola, Kan.
Jan. 15—Mitchell Bros., Longton, Kan.
Spotted Poland Chinas,
Anguist 24—Hanny Field Shangadosh In

August 24—Henry Field, Shenandoah, Ia. September 17—Henry Field, Shenandoah, Ia. October 9—Henry Field, Shenandoah, Ia. Nov. 5—Henry Field, Shenandoah, Ia.

Duroc Jersey Hogs.

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John A850.

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14-Night Sale. Boren & Nye, Pawneer y, Neb. 14—Night Saie. Boren & Nye, Tawner

18.—Lyden Brothers, Hildreth, Nebs.
15.—E. H. Dimick & Son, Linwood,
15.—E. Tonganoxie, Kan.

16.—Gordon & Hamilton, Horton, Kan.
17.—Earl Babcock, Fairbury, Neb.
17.—M. R. Peterson, Troy, Kam. SaieBendena, Kan.
17.—Jno. C. Simon, Humboldt, Neb.
18.—Robt, E. Steele, Falls City, Neb.
18.—Kempin Bros., Corning, Kan.
18.—Wm. Hilbert, Corning, Kan. (Night) gale.)

Kan. 23—C. H. Black, Neosho Falls, Kan., in the 23—C. H. Black, Neosho Falls, Kan., in Emporia, Kan.

20—Arthur Mosse & Daughter, Leaven-rth, Kan.

Sale: Reports

Good Sale:

Females averaged. \$342.50
Bulls averaged. 282.80
head averaged. 386.77 Bulls averaged. 322.80
Bulls averaged. 325.80
head averaged. 326.77
F. M. King's Holstein sale on June 28 at
andview. Missouri, was a great success,
large crowd of anxious buyers came from
veral states. The sale was well advertised
da large crowd was in attendance. The
males brought good prices but there seems
demand for bulls. Several cows sold
ith calves at foot and sold as one lot,
of thing sold high, yet the averages were
ry fair and low enough to permit of libal investment by farmers and breeders,
ollowing is a list of representative sales;
aple Grove Pontiac Johanna, 3 years,
W. H. Mott, Herington, Kan. 510
incess Pontiac Premier Lyons and
calf, J. H. Murphy, Vinita, Okla.
sercedes Soldene Pontiac, 2 years, Ed
Frazier. Drexel, Mo. 350
any Mercedes Pontiac, 2 years, A. J.
King, Kansas City, Mo. 330
alsy Bonheur Gelsche, 3 years, S. R.
Widner, Pittsburg, Kan. 280
inperial Sadie Cornucopia, 2 years,
Pickering Farms, Kansas City, Mo. 370
findsor Hill Lamb, 2 years, D. B.
Wells, Stroud, Okla. 350
lountain View Johanna De Kol, 3
years, F. L. Harsh, Olathe, Kan. 260
kinley Segis Pontiac Korndyke, 2
years, A. J. King. 1,100
elsche Korndyke and calf, 2 years,
A. Kerzello, Grandview, Mo. 305
sharty Burke De Kol Girl, 4-years,
W. R. Galleth, Grandview, Mo. 305
sharty Burke De Kol Girl, 4-years,
Dr. Smith, Kansas City, Mo. 305
lount Field Notes

Field Notes

BY J. W. JOHNSON

R. P. Wells, Formoso, Kan., Jewell county, hanges his advertisement to bred sows and all gilts. Mr. Wells is a well known Jewell county Duroc Jersey breeder that has bred he good ones. The breeding is Pathfinder and Orion crosses of the very best. The bws and gilts are by Highland Cherry Kins, splendid breeding son of old Orion Cherry king. They are bred for September farrow be good sons of Pathfinder and Sensation. Write for descriptions and prices. You will be treated right if you deal with Ralph Vells. Look up his advertisement in this suc.—Advertisement.

Last Call for Great, Holstein Sale

Last Call for Great, Holstein Sale

Kansas breeders of Holstein-Friesians are excially urged to consider the importance the Robinson & Shultz dispersion sale at dependence, Kan., next Saturday, July 17, weekar Holstein Farm, Joining the city the east, has been in the public eye forgood many years because of the great meer herd there and because of the great meer herd the great herd to have been content to rest on laurels in but have been at all times alert for portunities to better the herd. The result it is one of the great herds of the west least. In this issue of the Kansas Farmer of Mail and Breeze will be found their play advertisement that is full of real peabout the offering and the opportunity this sale. Because of the active part at this firm has taken in behalf of the listein industry in Kansas I want to urge ery Kansas breeder to attend whether ey want to buy cattle or not. If you want all cattle you can see the importance of lending the sale. Mid-summer sales are to be full of real bargains. The recent cision to disperse the herd and close up a partnership has made the sale at this ne necessary. Their loss will be your in. The advertisement on another page so you all of the information. The catalist readiressing sale manager, W. H. Mott, rington, Kan., or the firm at Independence, Kan. But iff you delay writing for the taid just go to the sale anyway and youl set the catalog there. Remember the less next Saturday, July, 17. There are add hotels in Independence and the sale in the held in comfortable quarters. Read information contained in the advertisement in this issue on another page and the at once for the catalog to W. H. Mott, emigton, Kan.—Advertisement.

By J. T. HUNTER



inson & Shuftz's Sale of 70 Purebred Holsteins at Independence, Kan, sale Paulion Saturday,

The list call for the greatest dispersal of outstanding individuality and rich blood lines ever offered in one Holstein head in the southwest. The catalog is now ready for distribution. Herey page in it recites achievements in milk and butter records of many of the great animals of the breed. Write today for a catalog and make arrangements to attend this sale.

W. H. Mott, Sales Manager, Herington, Kanas



At left:—Johanna Lily who is a show cow and has produced 63,000 lbs. milk in 4 years; several times grand champion at different state fairs; the dam of the Kansas Erce Eair junior champion in 1918; she and her three daughters are in the sails. At rights—Princess Photograph Hasyn Be Kolt has 3 times made over 28½ lbs, butter in a week; milked over 100 lbs. in a day; last record 28:67 lbs. butter, 784 lbs. milk; 3,066 lbs. milk in 30 days; milked 13,500 lbs. first six months of period; highest producing cow in Southwest for both 7 and 30 days; weighs over 1960 lbs.; bred to freshen in September to King Horndyke Daisy Sadie Vale.

Kan., have an exceptionally good herd of Shropshires and that Mr. Homan and his sons have the habit of winning a very large percentage of the prizes at livestack shows and fairs with sheep selected from their herd. Quite a number of farmers over the country have started their herds or increased their herds with sheep from the Homan farm. At the present time Homan & Sons offer some twenty or more good yearling rams of Senator Bibby and Bibby Champion breeding. These two great sires who are half brothers have sired more prize winning Shropshires than any other two sires of the breed. Senator Bibby 17th, a son of Senator Bibby heads the Homan herd and he is a fine individual. This ram has never been defeated where shown. He has won at shows at Wichita, Hutchinson, and Topeka and will be shown at the same places this year. His get this season is the best that he has ever sired. Homan & Sons will be pleased to meet at the state fairs and at the Wichita Stock show those who are interested in good Shropshires on the farm. With the increased interest in sheep that is developing these good rams will be taken very soon and we suggest that if you want a good ram now is the time to write. Do it today. Address O. A. Homan & Sons, Peabody, Kan. Please mention the Kansas Farmer and Mail and Breeze.—Advertisement.

BY J. COOK LAMB

Foss Sells Durocs Oct. 21.

Foss Sells Durocs Oct. 21.

The Foss herd is headed by one of the Durocs' best breeding boars, Disturber of Sterling, a boar that sires type and size. Mr. Foss has about the usual number of spring pigs. Also a fine lot of fall glits which are largely by this boar. They are a good quality bunch and will be a fine lot in making up his sale which will be a fine lot in making up his sale which will be held on October 21. Mr. Foss has several outstanding litters that are by Criterion, the boar he recently sold to head the Art Moore herd of Bartley, Nebrasica. The sow herd represents some very high class individuals and are of such blood lines as Pathfinder, A Top Pathfinder, Disturber of Sterling, King Orion Jr., and Glant Col.—Advertisement.

Information contained in the advertisement in this issue on another page and the at once for the catalog to W. H. Mott, frington, Kan.—Advertisement.

BY J. T. HUNTER

Two Holstein Bulls For Sale

Axtell & Hershey, Newton, Kan., have for it is two Holstein bulls. One of them is a sarling that is ready for service. He is by ling for the Pontiac Johanna who is one of the stons of King of the Pontiacs. King the Pontiacs is the only buil of the breadhe has over 250 A.R.O. daughters. The dam the buil for sale is a granddaughter of ling of the Pontiacs. She has a 22 pound day record as a juntor two year old. The buil for sale is a spring calf by King of the Pontiac Hillsdale, a granddson of ling of the Pontiac and out of an 18 buil will make some one a good herd and the buil caif is an especially bod animal that has all the appearances of the first of the conting a wonderfully fine herd header. Ince if you want one or both of these Holsenmer and Mail and Breeze when you show a comment.

Homan & Sons Have Shropshire Paraget and the buil caif is an especially of the card and and and Breeze when you show and an and mail and Breeze when you show and a sons they have many different lines to offer you.—Advertisement.

One of Iowa's Best Herds.

Pfander & McClelland Durco herds, Clarinda, Iowa, are driving out an unusually good type of pigs this spring. Educator's Orion's Cherry, the old herd boar, looks better to these boys every day. He is siring a class of stuff when grown out that are hard to equal. A year-ling son of this boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to show some strong competition in the 1920 shows. This boar is going to

Homan & Sons Have Shropshire Rams
Sheep men of Kansas and the Southwest to that O. A. Homan & Sons of Peabody,

The Homan & Sons Have Shropshire Rams
Sheep men of Kansas and the Southwest to the shows this fail that will cause some comment, in Giant Orion. He is by Educator's Orion and the Pfander and McClelland herd boar. This boar is 40½ inches high, 81½ inches long and carries a 9½ inch bone.—Advertisement.

ABERDEEN ANGUS CADISCE



Eighteen to twenty months; big strong fellows Priced to J. D. MARTIN & SONS

Special Angus Offering registered young cows bred to show bulls. three-year-old heifers bred; 35 yearling fers. Young bulls serviceable ages. A v two-year-olds. SUTTON: FARM, RUSSELL, KANSAS

RED POLLED CATTLE

FORT LARNED RANCH

200 HEAD OF REGISTERED
RED POLL CATTLE
number of choice one and two-year-old
and heifers from one to three years old. E. E. FRIZELL & SONS, FRIZELL, KAN,

Some extra fine registered bulls for sale. Write for prices and descriptions, or better come and see them, therd bulls used in the herd were from the breeding of some of the best. Red. Polled reds. in the country such as Luke Wiles, Chas. Graff & Sons and Mahlon Greenmiller. GEORGE HAAS, LYONS, KANSAS.

Pleasant View Stock Farm Registered Red Polled cattle. For sale, a few choice young bulls, cows and helfers Halloran & Gambrill, Ottawa, Kansas

RED POLDS. Choice young buils and heifers. Write for prices and descriptions. Chas. Morrison & Son, Phillipsburg, Kan.

AVRSHIRE CATTLE.

Ayrshire Cattle For Sale ROBERT P. CAMPBELL, Attica, Kansas.

JERSEY CATTLE.

Hillproft Farms Jerseys headed by Queens nonneed the best breddessey bull in Missouri, a Register of Maritson of Raisigh's Fairy Boy, the greatest bull ever imported, 54 tested daughters: 88 tested granddaughters and 34 producing sons. Choicebuilcelvesforsale. Reference Bradstree MR L. GOLLADAY, PROPE, HOLDEN, MO.

FOR SALE 1 registered Jersey bull five years old. Gentle and good breeder. A. E. SIEGERT, R. 1, BASEHOR, KANSAS

10 JERSEY COWS ROB SAIDS 9 of them from 2.to 6 years old. The best of my herd: E. H. Knepper, (1 mi. N. W. of tewn) Broughton, Kan.

HOESTEIN CAPTLE

HOLSTEINS FOR SALE

Three yearling Holatein heifers, high grades, and one purebred Holstein bull, six months old, not related to heifers. You may have the bunch for \$300.00; any one for \$5.00 or two for \$100.00. Write GEO. F. VOCIT, TROX, KANSAS

YEARLING HOLSTEIN BULL, \$135

HOESTHEN CATTLE.

HOESTEIN-FRIESIAN BULLS

Several ready for use. A good lot of younger ones from A. R. O. and prize winning ancestry.

Prices reduced for 30 days. Write us about what you are wanting. MeKAY BROS., CADDOA, COLORADO



Purebred Holstein Cows Yield Five Times More

In the opinion of Supt. Smith of the Geneva Experiment Station, the average production of butterfat per year per cow in New York State is about 100 lbs. The State College at Ithaca has a cow descended from common stock on one side and from a line of pure bred Holstein sires on the other. This cow has produced 479 lbs. of fat: in a year. Not a startling record as several purebred Holsteins have records of more than twice as much, but it is interesting as proof that intelli-gent improvement of a herd of grades can multiply the butter yield by four and five.

Send for Free Illustrated Booklets. They contain valuable information for every Dairyman.

The Holstein-Friesian Association 292 Hudson Street Brattleboro, Vermont

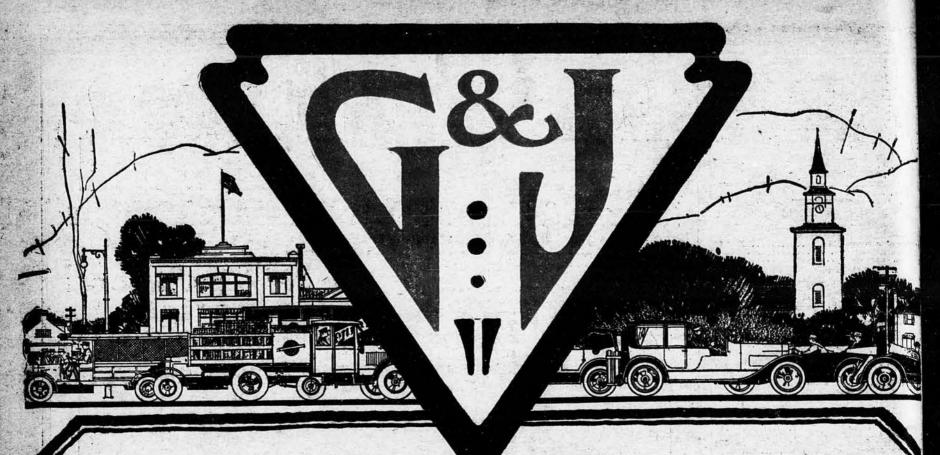
Western Holstein Farm are breeders of the correct thing in Holstein-Frieslan cattle. Young bulls of superior breeding for sale. Write for circular. HALL BROS., PROPS., Bex. 2, South Denver Station, Denver, Colo. of superior

HOLSTEIN HEIFER CALVES

We have a few extra choice helfer calves for immediate delivery. \$30 express prepaid anywhere in Kansas. A. D. MARTIN, EMPORIA, KANSAS

HOLSTEIN OR GUERNSEY CALVES either sex, 6 to 8 weeks old, \$30 each; ex-press paid by us. Write for particulars. Spreading Oak Farm, R. 1, Whitewater, Wis.

FOR HIGHLY BRED HOLSTEIN CALVES Grandson of King Pieter 60771, that sired 42 A. R. O. cows. A bargain. W. H. WILLIAMSON, RAYMOND, KAN. guaranteed. Write Fernwood Farms, Wauwatosa, Wis.



TURES

TWENTY-SEVEN years is a long time to be making tires. But not any too long to find out the physical elements that make quality—and to give them to the tire-user.

The makers of G & J Automobile Tires were building pneumatics before any of us had ever seen a motor-car.

Laying down correct principles of tire performance and contributing continually to those pneumatic tire developments which are standard today.

The strongly established position of the G&J Tire Company has more to show by way of result than even good tires.

It has the square-dealing human touch with car owners through a selected national group of hardware merchants and dealers in auto supplies.

A contact with the public represented by retailers who are fitted to be tire men according to the G & J idea that reputation obligates a service.

G & J TIRE COMPANY, 1794 Broadway, NEW YORK

