

# The FARMERS MAIL AND BREEZE

## To Grow Good Fruit

By F. B. NICHOLS, Associate Editor

A FARM ORCHARD in Kansas on most places is for the primary purpose of making the living conditions more agreeable. Its value cannot be measured in direct financial returns, altho it usually will be found that the orchards that are cared for properly will return a higher profit than the land will give in other crops. There is a better value than this, however, in the health, happiness and contentment which a good orchard brings.

Fruit for home use can be produced in every county in Kansas. While it is true that the conditions in Western Kansas are not so favorable as those farther East, it also is true that farmers have demonstrated that good fruit can be grown if the right care is given. Take, for examples, the success of the farmers around Scott City, along the bottoms in the broken lands north of that town, near Wallace, on the Colby and Hays Experiment stations, near Norton, and so on. The men who are growing fruit in the Western part of the state are winning for just the same reason that the farmers in Doniphan county are successful: they give the trees the right care.

There is nothing complicated about growing fruit in the home orchards in this state. Of course if one understands the technique of the business as well as some of the more successful orchardists, such as George Groh of Wathena, it is all the better, but it is not necessary. What is essential, however, is an intelligent interest and a love for the trees or vines. Unless one has this he is not likely to do much with the home orchard. If one will consider the benefit that can be obtained from the 2 or 3 acres used for fruit it ought to help greatly in developing this interest.

Apples, especially, are easy to grow in the Eastern half of the state, and in the more favorable locations farther West, and there ought to be an immense production of this

fruit in Kansas. The principles of management used are simple. If one will give the trees the work and intelligent care required in producing a big crop of corn the results will be a great deal more satisfactory than they now are. Apple growing in Kansas is in a decidedly unsatisfactory condition on the small home orchards, and this is mostly because of a lack of care. The trees are left to rustle for themselves, and as a result their energy goes into maintenance instead of fruit.

Good fruit cannot be produced in Kansas without spraying. The insect and fungous pests are with us, and they are here to stay. If that fact were thoroughly understood by all growers considerable progress in the movement for better fruit would have been made. Too many men are inclined to remember the big crops raised many years ago before the insects and diseases had arrived, and to think that perhaps these times will come again. The history of fruit growing has shown that this is not the case. If that is admitted, the necessity for spraying is obvious. A man who cultivates corn or kafir is merely helping to protect his plants against their enemies and to make the conditions more favorable for them—that also is what he does with fruit when he sprays it properly.

Equipment is not expensive; a power sprayer is not necessary in a home orchard. The equipment for hand spraying can be purchased for \$15, and it frequently can be used for other purposes on a farm. The cost of spraying is not high—the prices of the chemicals are slightly higher now than usual. All the information needed can be obtained from the departments of horticulture or entomology of the Kansas State Agricultural college at Manhattan. A few dollars spent for equipment, a few dollars more for spraying materials and then their application to the average home orchard will produce fruit of an excellent quality, and of a value that will

pay for the sprayer, chemicals and labor the first year, and leave a considerable profit besides. Unless one is willing to give this care he ought to cut his trees and use the land for productive purposes. Under the conditions now the rule is that the trees do not give any real return. Wormy cider apples are not a crop; they are a mistake.

There are a few other things to do in the orchards besides

spraying.

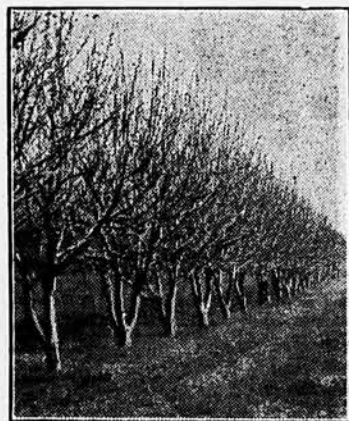
For one thing, the matter of pruning needs attention. Most apple trees in Kansas are brush tops. Open center pruning with low heads is needed. Cut out the useless limbs, and if the top is too high, as most of them are, bring it down slowly. A day's work in the average home orchard in Kansas will do a great deal toward putting it in a condition so it can produce better fruit. Apple trees were not designed to produce fire wood, the purpose is to grow fruit. They must be pruned so the fruit will have the best chance. This means that the air and light must have an opportunity to get to the fruit. Another big advantage in the well pruned trees is that they can be sprayed quickly and efficiently with the least possible use of spray material.

More cultivation is another need. In most cases this does not require a great amount of trouble or work. Clean cultivation usually can be given the first of the season. Cover crops can then be planted if desired.

Farmers who live in Western Kansas must use a great deal of care in selecting the varieties and they must have a good location and the right care. There are many successful orchards in the western third. A bulletin on the growing of fruit in arid regions has been issued recently by the United States Department of Agriculture. A copy can be obtained on application to the secretary at Washington, D. C. Many excellent bulletins on the growing of fruit under all conditions in this state can be secured from the department and from the agricultural college.

The success with home orchards is mostly an individual problem. Good home orchards can be obtained in any county; there are many examples of failures under the excellent conditions in Doniphan county. Unless one has an appreciation of the importance of fruit in aiding in conserving the health of the family, and in making them more contented he is not likely to "go to the bother" to care for the orchard properly. That there is a growing respect for the value of fruit is well shown by the increasing number of good home orchards in this state. These are a mighty satisfactory indication of the developing of a better country life.

In many cases it is necessary that a new orchard should be set; the old trees are so far gone that it is not possible to do much with them. When this is the case it is important that the best varieties adapted to that section should be planted. In most conditions in the Eastern half for example it is possible to get good results in a (Continued on Page 33.)

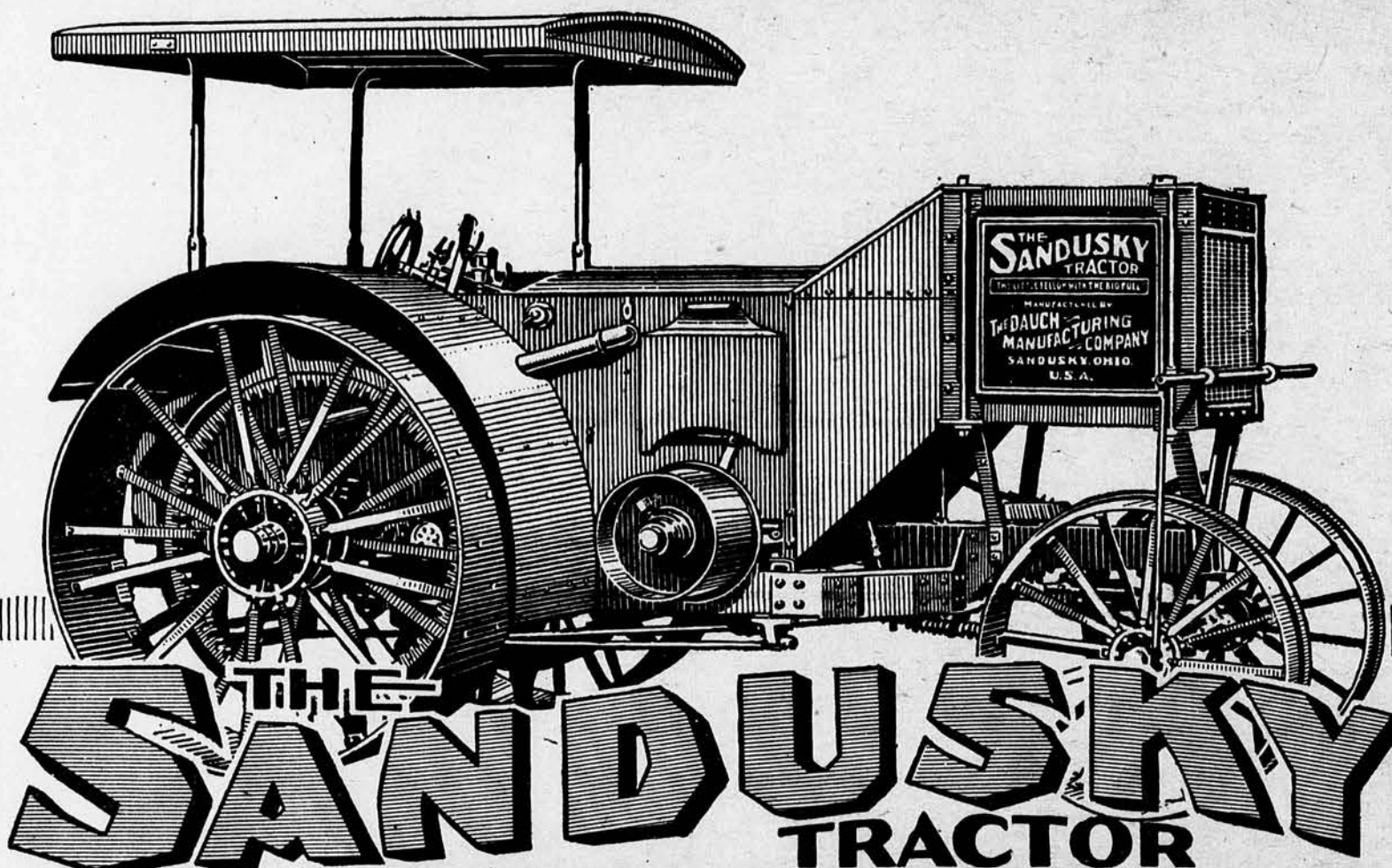


Careful Pruning is Needed.



An Orchard Grown Under Dry Land Conditions on Upland on the Colby Experiment Station; Good Fruit Can be Produced in Western Kansas.





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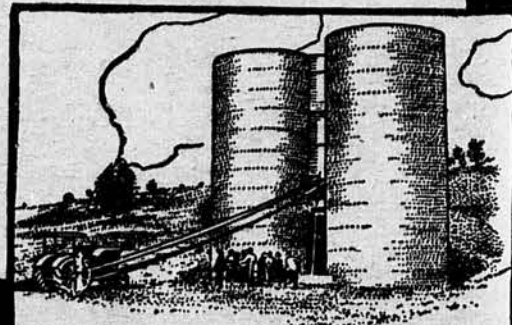
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# Real Economy this Time

## The Legislature has Fewer Employes and is Cutting Down the Pay Roll

IT WASN'T all talk this time. The legislature actually is economizing. Fred W. Knapp, state auditor, says so, and when an auditor admits a thing is economical nothing further can be desired. Auditors as a rule are opposed to everything under the sun except their own pay check. Mr. Knapp says the legislature, this year, is spending \$134,500 a day less for employes than did the legislature two years ago. The present august body cost the state—that's you—just \$1,345 less for employes in the first 10 days of the session than the lawmakers of 1915 spent in the same length of time. The senate beat the record of 1915 by \$847, spending \$2,435 on employes. The house spent \$498 less than the previous house, its employes' payroll totaling \$2,255.

And it has done a lot of good, hard work, too—this legislature, chiefly in killing a flood of useless bills. An even 500 bills have been introduced in both houses in its first two weeks, compared to 736 two years ago. Just two of these have passed both branches, have been signed by the governor and become laws. One of these appropriated \$40,000 for legislative expenses. The other appropriated \$5,000 for county road work, and now is in the hands of the supreme court for a test as to its constitutionality.

### House Week Ahead of Senate.

The house is nearly a week ahead of the senate in the consideration of measures. With 272 bills introduced, house committees have reported on 61. Thirty-five of these were killed, and 26 reported favorably. Out of these 26 reported favorably, the house in committee of the whole has passed 14 and killed three. Seven house measures have been passed on third reading and checked to the senate for consideration. One of the seven was the Bardwell good roads measure, now in the hands of the supreme court.

The senate committees, on the other hand, have reported on 31 out of 228 bills introduced. Twenty-eight were reported favorably, and only three were killed in committee.

The house and its committees already have killed 38 were-to-have been laws. The senate and its committees have killed only four. Among the house measures killed were: Repeal of the primary law; lawyers only eligible for probate judges; a bill to prevent nepotism; three-fourths jury verdicts; Lyons', of Atchison, bills to reform the judicial system, and the Torrens system of land registration bill.

Among the bills that have been introduced are: Creating a state highway commission; providing a benefit district plan for hard-surfaced roads; a dozen good roads measures of various sorts; two dozen measures directed at the liquor traffic; anti-cigarette and anti-liquor advertising measures; eight-hour law for miners; one imposing a \$25 fine for smoking a cigaret, or possessing one; one providing for a detention home for women; a score directed at exempting mortgages from taxation; appointment of receivers for insolvent utilities by the public utilities commission; creating county courts; increasing salaries of supreme court justices, district judges, legislators and various county officers; providing for the publication of marriage bans; several pure marriage and eugenic bills; providing free text books; forbidding the attorney general to appear as counsel for corporations against which suits have been started by the state; abolishing the school of mines at Weir City; and the first of a flood of appropriation measures.

### Constitutional Amendments In.

Several propositions for calling a constitutional convention are in. So are propositions to amend the constitution in a number of spots, as: By allowing more than three amendments to be submitted at one general election; to permit the state to engage in good roads work; to make it easier to call a constitutional convention; to allow home

rule for cities; to increase the pay of legislators.

A bill has been introduced in the house by Mack of Harvey county, calling for an amendment to the constitution authorizing the governor to prepare for the legislature a budget, based on the recommendations of state institutions and department heads, showing what departments and institutions need. The governor is made responsible for the appropriation measures because if this act is adopted the legislature may not exceed the recommendations of the chief executive, except for the legislative and judicial branches of the government.

The legislature may diminish the appropriations made by the governor, or cut out the suggested appropriation for any department entirely, but it cannot appropriate more than the amount recommended. No appropriation measures may be considered by either branch of the legislature until after action has been completed on the governor's budget. Then the legislature may enact such other appropriation measures as it sees fit, subject to the governor's veto. The members of the legislature themselves, under this plan, would be held responsible to the people for any extra appropriations made. On the other hand the governor, who in Kansas is held responsible in the public mind for the appropriations made by his legislatures, would have the duty of limiting the regular appropriations and could be held responsible for these.

A committee on flood prevention has been appointed in the house to undertake duties urged by Governor Capper in his message. The members are: W. A. S. Bird, of Shawnee, chairman; Bardwell, of Clay; Wilmoth, of Cloud; F. O. Stone, of Lyon; Campbell, of Bourbon; White, of Saline; Brown, of Greenwood; Moore, of Cowley, Republicans; Johnson, of Franklin; Nelson, of Neosho; Long, of Wyandotte, Democrats.

Two new buildings at the state university at Lawrence, an addition to the chemistry building at the agricultural college at Manhattan, a new building at the Pittsburg Manual Training, a basement for the library at the Emporia Normal, and an athletic field at Pittsburg, are included in appropriation measures introduced in the legislature last week. The amounts asked were:

New auditorium at university	\$200,000
New wing administration building, university	150,000
Addition to chemistry building, Agricultural college	50,000
Domestic art building, Pittsburg	200,000
Athletic grounds, Pittsburg	10,000
Library basement, Emporia	5,000
Free beds for children at Rosedale hospital, part of university	15,000
Total	\$630,000

A bill to make it possible for the warden of the Kansas penitentiary to supply prisoners to municipalities and counties for public road work, has been introduced by Senator Barr. The bill provides that the prisoners be allowed 50 cents a day, to go to their families or to be held for them until discharged. The expenses of the prisoners while at work must be borne by the county or city using them.

Bill No. 77, by Senator Barr, makes it mandatory for county commissioners to work prisoners when there are five or more in jail, on public work.

An interesting amendment Senator Barr is considering is a proviso that all county jails must include an outdoor pen so that the prisoners will not be forced to remain indoors when not working.

The house will pass a bill next week introduced by Hughbanks of Harvey county, providing for the dropping of a 1 per cent solution of silver nitrate into the eyes of every new-born infant as a protection against blindness.

Unless the senate kills it next week this legislature will enact a law forbidding bankers or others charging more than 8 per cent interest on loans instead of 10 per cent, as at present. Of course the bankers are against the law.

A pretty fight was going on in the house last week but the bill has been recommended for passage. This will put it up to the senate to rescue either people or the plutocrats.

The house agreed to pass Bill No. 153 by Gilman of Leavenworth, to prohibit the attorney general from taking fees from corporations against which the state has instituted proceedings.

An appropriation of \$75,000 for repairing and waterproofing the east wing of the state house is asked in house bill 154, by McDougall, of Sumner. The proposed improvements include new steps, newell posts, baluster railings, stairway and balcony flaggings, the interior of the first and second floors of the east wing to be remodeled and a system of illumination for the interior of the dome.

Placing all receiverships of insolvent public utilities in the hands of the public utilities commission, instead of the courts, is provided in senate bill No. 129, introduced by Senator Paul H. Kimball of Parsons. The same measure will be introduced in the house by George R. Allen, of Wyandotte county. The two men are chairmen of the public utilities committees in the senate and house.

The placing of the measure before the legislature follows a recommendation by Governor Capper in his message urging that the power of the courts in handling involved public utilities be taken away. The gas receivership scandal was an important factor in starting its agitation.

Prospective brides and grooms in Kansas will have to undergo a physical examination and be certified physically and mentally sound before they can get licenses in Kansas, if the legislature enacts a bill F. O. Stone, of Lyon, says he will introduce in a few days. A similar measure was introduced two years ago by Frank L. Martin, of Hutchinson, but didn't get anywhere.

The gopher bounty measure of Cummings, of Douglas, hiking the bounty on gopher scalps from 5 to 10 cents a head, has been reported on favorably in the house by the committee on agriculture, with minor technical amendments.

A pure seed bill has been offered in the house by Campbell of Bourbon county. The bill would make it a misdemeanor for any person to sell mixed seeds not plainly branded as such, providing a fine of from \$10 to \$50 for the first offense, and of not more than \$200 for every succeeding offense. Labels stating plainly the different seeds in any mixture, and the name of the dealer, are required. Selling seeds of Johnson grass, bind weed, or dodder is absolutely prohibited.

Free school text books are asked in house bill 115, introduced in the lower house by D. A. N. Chase of Linn county. These are to be paid for by the school district out of the general school fund, or a special tax of not more than one-tenth of a mill may be levied to purchase the books.

Free text books for all students in the public schools of Kansas also are provided for in senate bill No. 85, introduced yesterday afternoon by Senator Montee, of Girard.

Only J. C. Mohler, secretary of the state board of agriculture, can make public reports on the estimated yields of Kansas crops before these are harvested, if house bill 99, introduced by Caudill of Comanche becomes a law.

Incurable insanity of five years' standing will be a sufficient cause for divorce in Kansas, if house bill 146, by Coffin, of Morris, is enacted into law by the 1917 legislature. The same measure has come up nearly every session, and generally has been killed by only a close margin.

An anti-discrimination bill, making it a misdemeanor to buy wheat, corn or

other grain from different places in the state giving different prices has been introduced in the house by L. D. Moore, of Cowley. Allowance is made for a difference in freight rates.

The fair association bill No. 121, in the senate, by Senator Rolland W. Coleman, allows small population counties to vote bonds for fair support. At present only larger counties have this privilege.

Publication or circulation of liquor advertisements in Kansas is prohibited in house bill No. 229, by Bardwell, of Riley. The bill carries a penalty for violation.

Threshers' liens on crops are provided in house bill No. 223, by Edwards, of Reno.

Another experiment station under the direction of the state agricultural college, is provided in a bill to be introduced in the senate by Paul H. Kimball of Parsons. It provides that the station must be located in Southeastern Kansas, in Cherokee, Crawford, Bourbon, Allen, Neosho, Labette, Montgomery, Wilson, Woodson, Greenwood or Elk counties, to meet the distinctive needs of this territory. The bill carries an appropriation of \$26,200.

### K. U. Enrollment is 3,314

The University of Kansas started the year 1917 with a total enrollment of 3,314 for the scholastic year so far. This is three times the university enrollment of 1901 when the attendance was 1,154. A year ago the enrollment was 2,807.

Chancellor Strong urges students ready for college to enroll in January and in the summer session next summer instead of waiting until next fall to begin university work. All the schools of the university offer work for new students the second semester and in the summer school.

"Boys and girls are spending too many years in school," Doctor Strong said. "We've been forming a habit of going to school in winter and not in summer for the last 300 years and it has grown into a very expensive, wasteful habit. Instead of spending four years in college the average student should attend the summer sessions and do that work in three years and the average professional student should likewise cut down the time he spends in college by going to summer school."

"It used to be, when the main business of the world was agriculture, that boys and girls had to be at home in summer. That's not true today. To save the time of students and expense to their parents and the state the University of Kansas adopted last year practically a continuous school session with 46 weeks of school a year. We had more than 800 students at the first longer summer session last year and expect several hundred more next summer."

"I increased the school work of the university in 1903 from 36 weeks a year, the age old school term, to 42 weeks a year. There were many complaints against this violation of ancient custom, but it was the practical common sense thing to do, just as it is now the practical thing for a boy or girl to go to school 46 weeks a year in the university."

"Two weeks vacation at Christmas and four weeks in summer are sufficient recuperating time for any student. Of course, all our students cannot afford to come to summer school, for 1,383 of them are working to pay their school expenses and need the long vacation to earn money. But a majority of students, perhaps, do very little productive work in summer and should be in school then."

Mrs. Youngbride—"I'm getting our ice from a new man now, dear."

Youngbride—"What's wrong with the other man?"

Mrs. Youngbride—"The new dealer says he'll give us colder ice for the same money."—Boston Transcript.



# DEPARTMENT EDITORS

Field Editor.....F. B. Nichols  
Farm Doings.....Harley Hatch  
Poultry.....G. D. McClaskey

Entered as second-class matter Feb. 16, 1906, at the postoffice at Topeka, Kansas, under act of Congress of March 3, 1879.

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# The Farmers' Mail and Breeze

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Member Audit Bureau of Circulation.

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# Passing Comment--By T. A. McNeal

## High School Farms

There are already established in Kansas more than 40 rural high schools, and within the next year there probably will be a good many more. In my opinion this legislature should enact a law providing for experimental farms in connection with all these rural high schools. The expense of securing the land for experimental farms should be borne in part by the state by a general tax.

The high school farms should have at least 80 acres each and in the Western part of the state should perhaps include at least 160 or even 320 acres. The principal of the rural high school should reside permanently on the land, which should be used for experimental scientific agriculture, horticulture, floriculture and stock raising purposes. Every farm should also be provided with a fish pond. Experts from the agricultural college should be detailed to keep in touch with these high school farms. Short courses in agriculture, horticulture and domestic economy should be provided, and all the men and women within reach of the school should be encouraged to attend the courses. While the primary object in maintaining these experimental farms should be for experimental purposes, a careful account should be kept of the cost of production. If there were careful management every farm should be nearly if not entirely self supporting. It would, however, be no cause for discouragement if it did not prove to be self-sustaining, for it is fully as necessary often to prove that a certain kind of management or cultivation is a failure as to prove that another method of cultivation is a success. For example, let us suppose that an experiment showed on one of these high school farms that cultivating wheat in the ordinary way would produce on the average 10 bushels of wheat an acre, while cultivation in another way produced on the average 30 bushels an acre, the demonstration of the wastefulness of the ordinary method of cultivation would be fully as valuable to the farmers of that community as the demonstration of the better method. These high school farms could be made of great benefit to their communities and of great general benefit to the state, because they would give the opportunity to try out methods of cultivation under widely different conditions.

## What of the Future?

It now seems reasonably certain that the war in Europe will go on for several months at least. It is likely soon to enter on the most savage and destructive period of the conflict.

Great Britain and France evidently are straining every possible resource to make a more powerful concentrated attack on the West front than ever. Russia is evidently trying to do the same thing on the East front. A big effort undoubtedly will be made to break the railroad connection between Berlin and Constantinople.

On the other hand Germany evidently is preparing to greatly increase the number and effectiveness of the U-boat fleet. It is believed that there are being built and assembled in German waters not less than 1,000 of these undersea raiders with the purpose of destroying British commerce and bringing starvation to England, Scotland and Ireland. So there seems to be no prospect of immediate peace or peace even within a few months.

The final outcome of the gigantic struggle is still fully as uncertain as it was two years ago. Apparently the prospect of a draw is greater than ever. Meantime it is reasonably certain that all the nations concerned are verging on bankruptcy. All are managing somehow to borrow credit but with increasing difficulty. Already the aggregate debts of the warring nations are so huge that payment of the interest in gold would be impossible, and payment of the principal in that metal is not even considered. It is estimated that even if the war were to close now the rate of taxation in the warring nations will have to be increased 400 per cent as compared with the rate prior to the war, if the nations are to undertake to fulfill their financial obligations. When the war ends a financial and social readjustment will become necessary.

I hardly see how a day of fearful reckoning between the masses of the people who have suffered and who must continue to suffer on account of this horrible war and those in authority who were responsible for permitting it can be avoided. That

repudiations of government financial obligations and revolutions, bloody and desperate, will follow peace between the warring nations seems to me to be not only possible but altogether likely.

As the world has become largely bound together in a financial way, repudiation and revolutions would certainly shake if they did not destroy the financial systems of the world. Anarchy might and possibly would follow revolution and while the United States might not be involved to the same extent as the European nations, it would necessarily be greatly affected, and a financial panic would sweep over this country such as has never been experienced in all our history.

I think these dire results might be avoided if it were possible to mobilize the wealth and industries of this nation, to substitute for our present illogical, selfish, competitive plan a reasonable co-operative system; to establish instead of the present wildly inflated currency and exchange system based on the gold redemption theory—a theory utterly impossible of fulfillment—a reasonable, sensible and scientific system of exchange of credits and thru governmentally established and maintained industries to keep all the laboring people employed at remunerative wages. But I see no immediate prospect of such mobilization of wealth or industries in a way that will help the masses. I see no indication of the substitution of a co-operative system in place of the destructive competitive system, and no indication of the abandonment of the gold redemption theory of finance.

The reforms will come sooner or later, but they probably will come after the land has been swept with a financial cyclone and untold misery has been inflicted on the people. I do not think these calamities are necessary any more than war is necessary, but I fear the causes are in operation which will bring about the dire results.

## We Might Learn

There are some lessons to be learned in this war that might be profitably put into operation in time of peace. We know how those who advocate the taking over of public utilities by the government, national, state or local, have been denounced as hair brained socialists; as persons who knew nothing about practical business. Of course the success that has attended the operating of public utilities by the local governments, where given a fair trial, has had a tendency to make the opponents sing in a lower key than formerly, but they are still standing in opposition to the further advance in that direction. In war, however, especially in this war, it has been discovered that private management of business is inadequate, so that in every one of the warring nations the government has taken charge not only of what we call the public utilities but also of a good many lines of what have always been understood to be strictly private business. The government has demonstrated that practically any line of business can be conducted more efficiently as a public function than as a private enterprise.

Of course if the men put in charge of the government owned or controlled plants are either incompetent or dishonest the results will be unsatisfactory, just as in the case of private enterprises when there is incompetent or dishonest management, but on the other hand it has been demonstrated that it is possible for government management to be more efficient than private management.

I do not believe that after the war the governments of Europe can ever go back to the old way of doing things without bringing on revolution. If revolution, succeeded perhaps by anarchy, is to be avoided it must be by a governmental system that will give opportunities for employment at comfortable living wages for all the people who are able to work. That means that the governments must engage largely in what before the war were privately conducted industries. The profits that formerly went into private pockets must be scattered in the way of wages among the workers.

## Mothers of Prodigal Sons

I wrote an editorial just before Christmas on the significance of the day as I understood it, and referred to that beautiful story of the prodigal son. Of course I drew on my imagination to some extent as I pictured the young fellow who traveled the road that many thousands of young fools have traveled

since, until he found himself dead broke, nearly starved and altogether down and out. In his distress he turned with longing to the old home and when at last the tugging at his heart strings grew too strong and the gnawings of hunger too insistent he turned his face toward home. I spoke of the things the boy probably thought. I also permitted my fancy to roam somewhat and imagined the prodigal's father consulting the boy's mother about the home coming of their boy.

C. H. Wick, a subscriber, criticizes me. He states that the story does not mention the boy's mother, and that there is no reason to suppose that he had a mother. It is true that nothing is said about the prodigal's mother, neither on the other hand is there anything said about his having no mother. Indeed it is quite possible that Christ did not have in mind any particular person when he told this story. He wished to teach a lesson and did it. If that is correct then we certainly have a right to imagine some details that are not told in the story itself, and one of the most important details according to our modern idea would naturally be the mother, longing and hoping for the return of her wandering boy. In those days, it is true, women did not seem to cut so much figure as now, but human nature and human affections, I take it, were much the same. Of course I do not know whether the mother of the prodigal, assuming that the story was told about an actual case, was living or not, but to my mind it adds a bit to the human interest to suppose that she was, and there is nothing in the story to show that she was not.

## Wants Football Abolished

R. H. Smith of Little River, Kan., writes me at considerable length criticizing the game of football. He says:

There are a few things I believe you should notice while working for the good of humanity. One is this infernal football business. Now you tear great holes in the atmosphere in discussing the inhuman atrocities of war but say nothing regarding the number killed, crippled and bruised in the useless game of football. We are told that 29 were killed in this game last year and more than a hundred injured. Whether these statistics are correct I could not say, but we know that they are partly so. If anything was to be gained by such bloodshed, it might be overlooked and there be some excuse for passing it up without comment. This game is instituted to entertain a class generally identified as sports, who love to sit in the grandstand and watch the young men pile up, tramp on one another and break their bones as if they were nothing more than dry sticks. They yell demoniacally for the respective sides while bearing the wounded away on stretchers. It makes no difference how badly one may be wounded or even if he is killed, this does not interfere with the game. Fresh recruits are brought on the scene of action and the game goes merrily on and the crowd continues to yell and howl worse than Comanche Indians on the war-path. Talk about your semi-civilized Mexico and its bull fights, if you will, but this sport is far more sane than the football game. In the bull fight there are but two engaged, the bull and the man. (Mr. Smith is in error here). There is a chance of but one getting killed while in the football game there are 22 men and should they all be exterminated they generally have more left to continue the game. I never could see any sense in this game and I never could see how a class of people presuming to be civilized could encourage it. I asked the superintendent of a school one time why he advocated football. He said: "I have built this school up on a football record," and after investigating I was sure he was right for it was a difficult matter to find a scholar in high school who thoroughly understood the fundamental principles of arithmetic or could parse, conjugate or write an intelligent letter. These sports will never be any benefit to them. They need something more. The address of Governor Capper to the Argentine high school as printed in the Farmers Mail and Breeze of January 6, sounded the right note to vibrate the right tone. When reading that I just wondered how many girls could make their own dresses or how many boys could pay their way thru high school. Now Mr. Editor, there are a great many more things I should like to say, but I have said enough. I hope, to persuade you to join in with the multitude of us folks who oppose this useless football game and will help to exterminate it, and try to institute a school to promote the welfare of the republic instead.

Little River, Kan.

Theoretically I must say that Mr. Smith has the argument on his side. A great many fine young fellows are injured permanently in football, and a good many have been killed. It does not serve the very purpose for which athletics are supposed to be introduced into our schools and colleges, which is to build up the physical structures of those who need



building up. The football teams are picked from those who are already more than ordinarily well developed. They do not need the exercise and physical training. On the other hand the very fact that the energies and time of the athletic director are largely devoted to building up a winning team necessitates to a considerable extent, the neglect of the students who really do need physical training. Football has not operated to build up the strength, activity and health of the student body as a whole, and it does tend, at least to an extent, to develop professional sports. The beefy center rush and the active side liner who can avoid interference and carry the ball 40 yards for a touch down gets more glory than the most brilliant student. In other words despite all the protests of college professors and football instructors to the contrary the game of football does tend to exalt beef and brawn above brains.

Therefore, I say the argument is with Mr. Smith. But let me not be a hypocrite. The fact is that a good game of football stirs my blood. When I see a great, handsome giant like Rutherford, an active-intelligent mass of bone and muscle, walking down the field toward the enemy goal with a man hanging to each leg and on each arm while a fifth rides vainly on his back, I forget my theories and shout with primal savage joy, "Bully boy, bully boy, go to it, GO TO IT!!"

I frankly admit my inconsistency; but then it is better to own up that you are inconsistent than to be a hypocrite.

### A Suggestion

A reader of the Farmers Mail and Breeze, R. W. McGrath of Fredonia, sends me the outline of a plan he has worked out in his mind which, whether practical or not, is at least interesting. Mr. McGrath's plan is to create what he calls one or more buffer states between the United States and Mexico. These buffer states are to be created out of Mexican territory and their independence is to be guaranteed by the United States and Mexico, principally by the United States. Here are Mr. McGrath's 10 suggestions:

The United States to assume all obligations due American citizens growing out of the recent troubles in Mexico and pay the balance in cash for sufficient territory along the border to form one or two independent states.

Make those buffer states the home of the American Indian and negro with ownership of all lands, mines, minerals and water-power retained by those states whose independence should be guaranteed by both Mexico and the United States.

Prevent white men, corporations and non-residents from owning any of the lands, mines, minerals and water-power of such states.

If such states surrender ownership in the lands, mines, minerals and power sites it should be to its own people and actual owners of the soil, mines, and minerals should not be permitted to sell even to one another except by approval of each such transfer by property transfer board created to protect such people from swindling land men.

Grant carrying of arms by only a limited number of police officers for carrying out police power of such states only. Prohibit the creating of a standing army.

Create homes for actual settlers from such parts of the United States and Mexico where discrimination now shown owing to race, color and previous condition of servitude whether in polite society or at the ballot-box.

Secure to the inhabitants freedom of speech, freedom of press and freedom to worship God according to dictates of their own conscience.

Place a limitation of power to create debts, private, state and municipal.

Mexico and United States to lend such state or states sufficient funds as to enable the said states to buy out such white men, corporations and non-residents as may have claims in such territory at this time.

The endowment of a reasonable number of industrial schools and colleges where special attention is given to manual training and scientific agriculture and horticulture. In other words make such states an asylum for the submerged colored inhabitants of Mexico and the United States on terms fair to both countries and free from the inherited sins of both Mexico and the United States as well as the so-called civilized nations of the world.

Just how Mr. McGrath figures that such an arrangement would lessen the danger of trouble with Mexico I do not see. It seems to me that it would result in our having two irresponsible governments to deal with instead of one. The difficulty in the Mexican situation as it seems to me is that there is no responsible government down there to deal with. There has been a great deal of criticism of the administration because it has not held somebody responsible for the destruction of the lives and property of United States citizens in Mexico. Now the fact is that there is no power in Mexico and has not been for four or five years, which could protect the lives and property of American citizens. There have been just two courses to pursue, one to get the citizens of this country out of Mexico and permit the Mexicans to settle their own difficulties among themselves, or to send a sufficient armed force into Mexico to take possession of the country, restore order and establish a government down there under a United States protectorate.

To carry out the latter policy would require an army of at least a half million men, and would mean a long, expensive and vexatious guerrilla warfare, and probably the permanent, armed occupation of all the vast territory of Mexico.

To refuse to take the last mentioned course at present is not in my opinion an indication of weakness or cowardice but the exercise of good sense. There is no principle to be vindicated by the in-

vasion of a country like Mexico unless we decide that it is our duty to act as a policeman outside of our own territory.

Now suppose this plan suggested by Mr. McGrath were put into operation or an attempt were made to put it into operation and some alleged government in Mexico were to undertake to guarantee the independence of these buffer states, who would guarantee the guarantor? Would it not finally end in the United States having to establish a protectorate over both Mexico and the new government? For if our government really did undertake to guarantee the independence of the new government it would then be compelled to protect it against invasion from the South as well as the North.

### Comes to My Defense

Recently I heard a pessimist defined as a dog that will not scratch. Accepting this definition, we cannot properly apply the title to Mr. McNeal. I wonder if E. D. Smith of Meade, Kan., has recognized the "splendid discontent" that forms the first step in all progress or if he can distinguish the "narrow" form of optimism that serves often as a barrier to every forward movement?

A close analysis of Mr. McNeal's pessimistic mood leads me to the belief that it is just one of his ways of teaching us to think to some definite purpose and end, and when that end is attained and we look around for McNeal he may be miles ahead of us again with a new thought.

If he could follow his editorials to their uttermost limit of influence and by some fairy process see revealed all the crystallizing lines of thought and action owing their origin to his apparently casual comments, I imagine he would feel somewhat shaken by a great sense of responsibility to such a thoughtful army of followers.

And yet if he should strike a back-track or a cross-trail as so many of our self-appointed leaders of modern thought do, he would become in one hour just one more fallen idol, while the masses would remain unchanged in their relation to the verities, seeking with something of pathos, perhaps new leadership but forging ahead at some rate toward the highest goal of human culture.

Able leadership will hasten the day when right and truth, and justice and liberty and equal opportunity shall prevail, but false leadership will not be able to withhold it.

The Socialists' propaganda is helpful for its suggestion, but no revolutionary movement can establish these things upon earth. They are a growth and we are only at the beginning of these ideal conditions. Only the right-thinking individuals who are willing to work "slowly in these walls of time" toward the ultimate establishment of these common rights of mankind and to impart while working strong motives to noble action in the world of thought, love and beneficence, will achieve anything worth having of leadership, or accomplish anything worth while in their brief hour.

Spearville, Kan.

CAROL REED BREAKLEY.

### Truthful James

"I notice," remarked Truthful James, "that these scientific fellers are making experiments to show what the eating of different kinds of food will do to different kinds of animals. For instance, they are training cows and horses to eat meat, and tame wild-cats, tigers and so forth to go on a vegetable diet. Now, if they had come to me I could have told them something about the effects of different kinds of foods on humans and animals that would have saved 'em the bother of making a lot of experiments."

"There was old Sile Bungar who was always experimenting and projecting 'round on one thing and another. He kept a record or sort of diary of his experiments which he showed to me. I copied some of these entries which might be interesting. Here is one under the head of 'Food Experiments on Human Beings.'"

"April 1. Have decided to try the experiment of feeding the old lady a strictly vegetable diet. For a good while I have been of the opinion that Jane has been entirely too much inclined to run the ranch. She has for a long time refused utterly to get up in the morning and kindle the fire, and otherwise has been encroaching more and more on my liberties and rights as the supposed head of this household. For instance, a few months ago in addition to making me build the fires in the morning, she began to insist that I carry in all the wood. When I yielded on that point she made me work the churn. It was a dash churn. I objected but rather than have a fuss about it I did the churning. The next thing she wanted to run me in on was the family washing. I told her that doing family washing was not a man's job. She said that she didn't care to argue the question, but for me to get busy. Well, rather than have a family row I did the washing. Then she said that I should also turn the wringer. I said to her that it was necessary for me to go down town to attend to some business, but she said that she knew well enough that all the business I had down town was to sit round Bill Blossom's store and talk politics with a lot of old coots who never did amount to anything, and who ought to be compelled by law to stay at home and help their wives. Well, I finally compromised by hanging out the clothes, but I began to study the matter. I asked myself, 'What is the matter with Jane?' What causes her to act in this arbitrary manner?"

"One evenin' I read an article on the effect of diet. It said that the disposition of people was determined largely by what they ate. The article went on to say that eating meat tended to make the eater savage, dictatorial and unreasonable. That says I to myself, is what is the matter with Jane. I will put her on a vegetable diet. I will soon see

who is running this house. Jane has been eating too much meat. I will start the vegetable diet at once.

"April 5. I suggested to Jane on April 2 that I was satisfied that people eat too much meat. She was at that time feeding her face with some thick, rare steak. She didn't seem so very much interested, and I took up the subject again. I said to her in my most impressive manner, 'Jane, people eat too much meat.' 'Well,' she says, 'why don't you quit eatin' it? Nobody, so far as I know,' she says, 'is tryin' to compel you to eat meat if you don't want to. There's plenty of grass and other vegetables you can fill up on if you want to.' With that she reached for another piece of steak. I see that I wa'n't gettin' anywhere to speak of and decided to come out direct, so I says, 'Jane you are underminin' your health by eatin' meat. You should at once begin on a vegetable diet. You should eat mostly carrots and turnips with a fillin' of bran.' Jane looked at me with suspicion, and asked where I got hold of this vegetarian idee of mine. I told her that I had been thinkin' about it for a good while, but she simply said, 'huh,' kind of like a snort as it were, and went on eatin' beefsteak.

"April 10. The vegetarian idee hasn't so far worked out as I had planned. It seems that after my talk with Jane she got hold of the article on the effect of diet and I think she caught onto what I had in mind. Anyway, the next day she brought the matter up herself and says to me: 'I have been thinkin' about what you was talkin' about and concluded maybe there is something in it. Come to think about it you are quite a meat eater fur a man who doesn't do nuthin' (and me buildin' the fires and carryin' in the wood, doin' the churnin' and washin', and hangin' out the clothes.) I hev, therefore, decided to put you on a vegetable diet at once.' I objected strongly as a man should who intends to run his own house. I told her plainly that meat was proper food for a man and that a vegetable diet was especially adapted to the female sex, and that I would not be dictated to by my wife as to what I should eat. Well, the argument waxed mighty hot, and finally rather than have it said that I was a tyrant in my own household I agreed to compromise. I went on a vegetable diet and Jane still eats meat.

"May 10. I have been on a vegetable diet now for 30 days eatin' nothing but turnips and spinach and bran, and the like. The feller who wrote that article about the effect of diet on the human disposition was right. Jane is eating more meat than ever and she hardly gives me a minute's rest while I am awake. She doesn't let me go down town at all any more and has added makin' the beds and scrubbing the floor to my other duties. For the first week or so after I went on a vegetable diet I kicked and felt disposed to assert my rights, but now I am gettin' so that I have practically no nerve. It is this here infernal vegetable diet that is doin' the business for me.

"July 3. I have now been on a strictly vegetable diet for nearly three months. Jane has made me darn the socks in addition to milkin' the cow, strainin' the milk, doin' the churnin', workin' the washin' machine and hangin' out the clothes, makin' the beds and scrubbin' the floors. There is goin' to be a Fourth of July celebration in the city park tomorrow. I asked Jane about goin' but she said there was no sense in an old fool like me galivantin' round at Fourth of July celebrations, that she had planned for me to stay at home, and weed the garden. That is what a man comes to from eatin' a strictly vegetable diet. Jane is eatin' more meat than ever and the temper that woman is developin' is something fierce. I'm sorry I ever mentioned this vegetable diet business.

"Aug. 2. Jane has got so that she orders me to lie down and roll over and sit up on my hunkers like a poodle, and lick her hand, just to show her authority. I have eaten so many turnips that I chew my cud now like a cow. Something has to be done.

"September 5. About a month ago Bill Silvers happened along when I was out hangin' up the clothes. I had my mouth full of clothes-pins and couldn't reply when Bill hollered at me, but he saw that I was lookin' like a sheep or gentle Jersey cow, and asked what was the matter. Right then and there I confided the whole business to Bill. Jane was away callin' on some of the neighbors and that give Bill and me a chance to talk. Well, the upshot of the business was that Bill agreed to buy raw meat at the butcher shop and slip it to me over the fence when I went out to carry in the wood. He kept his promise. It wasn't three days after I began to eat raw meat till I began to feel like assertin' myself. After I had been surreptitiously fillin' up on that sort of diet on the side for three weeks I felt strong enough to organize an insurrection. The next evenin' I positively refused to darn the socks. Jane undertook to enforce her authority and for awhile I thought she would, but raw meat had built me up wonderfully and finally I got the best of Jane and hog tied her.

"Oct. 5. Jane has been eatin' vegetables under my direction now for a month and I am not doin' the washin' or churnin' any more. The feller who wrote that article about the effect of diet on disposition was right.

"Nov. 5. One of these pestiferous neighborwomen put up a job when I was asleep and began slippin' raw meat to Jane. I am again doin' the washin' and hangin' up the clothes. Also and moreover I am again on a vegetable diet."



# Did the Winners Lie?

## The "Can't be Did" Crowd Says Our Cost Records are Too Low

By JOHN F. CASE, Contest Manager

"ALL MEN are liars," according to a certain wise man of Biblical fame. And now comes a certain "wise man" of Kansas who changes the quotation. "We thought that the Capper Pig Club was a good thing to produce pork," writes one breeder, "but now we are convinced that it is a good thing to produce liars."



Arlo Wolf, Second Prize Winner. A few others I've received. Shame on you, Kansas men!

It's the old story, fellows. "It can't be did." Ever since the world began calamity howlers have been springing this ancient gag. "By heck, he'll never start it," whined a bewhiskered, tobacco stained pessimist, when the first locomotive trundled forth on shining rails. And, "By heck, he'll never stop it," was the triumphant exclamation when the miracle wrought machine went steaming away. And so it goes. While the "can't, be did" crowd stands agape the thing is done. And much of it is being done by boys.

Who produces the champion yields of grain, the baby beef records and all the pork production records country wide, you Kansas Doubting Thomases? Men? Not on your life! Boys are doing these worth while things. It takes a boy to get down into the pen with his pigs and pet and love them until in response to affection and care a daily growth is made that no man could possibly secure. What if Gilbert Arthur's record is phenomenally low. How are you going to get away from the fact that 73 boys in 73 counties made an average cost record of only a little more than \$3 a hundredweight? That's a phenomenally low cost, too. And every boy who sent in a record will swear to the truth of his report. Ask the boy in your county; he'll tell you a few things.

Possibly I shouldn't speak with so much feeling here but it makes me fighting mad to have any person question the sworn word of a boy who has done his best. First the doubters asserted that our boys wouldn't pay their unsecured notes, but every dollar was accounted for. I'm glad there's a different spirit among the boys. Not one single solitary complaint has been received from a club member who did not win. Instead the boys are writing like this: "Bully for the winners! Of course I'm sorry that I didn't get a prize but I want to congratulate the boys who did. And I'm going to try mighty hard this year." No intimation that some fellow lied because pork production costs were reported cheaper than theirs. Just a spirit of good fellowship that means bigger and better things in 1917.

But all the breeders and farm folks aren't writing such unpleasant things. I should say not. There are mighty few of the "can't be did" crowd in Kansas. The best breeders and farmers in the state are patting our boys on the back and telling them to go to it. Quite a number of the breeders who have sold sows, voluntarily are offering prizes for the best records made by boys who buy contest animals from that especial herd. We are not making these offers public for there is no desire to influence club members in the selection of breeding stock, but I shall be very glad to have these records separated from the general club reports and carefully graded when the contest ends.

Kansas breeders are more than playing fair with the pig club boys. I know that many of them are selling contest animals for less than could be secured elsewhere for they desire to encourage

the boys. Of course all of them believe in boosting their herds. "I'm having a great time finding a sow," writes one new club member, "for every breeder I write to says his herd is the finest in Kansas and won first prize at the Exposition." All boys may be liars but all the liars aren't boys, eh, Lionel?

And now I'd almost forgotten to introduce you to Arlo Wolf, winner of the \$20 second prize. Arlo's pork production cost record was only 20 cents a hundred pounds higher than Gilbert Arthur's. And to convince the "can't be did" crowd I'm printing Arlo's sworn statement on this page. This same form was filled, signed and sworn to by every prize winner, Gilbert Arthur included. Read the story telling about Arlo's work day by day thruout the year and be convinced that there was no guess work about his feeding costs or record keeping. Of course his feeding costs were based upon the table of values given in 1915—current prices then—and used by every contestant. Arlo is 14 and lives on a farm near Hanover, Washington county. The story follows:

"On our farm, sitting around the stove one cool, golden autumn evening in 1915, my father was reading the good farmers' magazine, the Farmers Mail and Breeze. Looking up, he said, 'Arlo, why don't you join the Capper Pig Club?' It was an opportunity I had often had a secret wish in my heart for, so I signed the coupon and sent it in. I received a letter from the manager of the contest saying I was chosen representative of Washington county. I got the recommendation papers signed and I purchased a registered bred Duroc Jersey sow named Star Queen from Glen Keesacker of Washington, Kan.

"The sow arrived by express February 8 and I began my feeding. For breakfast I fed her ear corn and milk, shorts and water at noon, corn and milk and a little alfalfa hay at night; making a total of 5 pounds of ear corn, 8 pounds of skim milk and 1 pound of alfalfa a day. I kept this up until the first of June, when I turned her on the rape pasture; then I dropped the shorts, alfalfa, and milk. I kept plenty of fresh water constantly before her. After the hard freeze of November when the rape was killed I fed her the same amount of corn as before, and slop from the house. I always managed to give her a good clean dry bed and clean troughs to eat and drink out of. I always think a good bed is half of the feed.

"The day I received my sow she weighed 205 pounds. I weighed her again August 20 and she weighed 497 pounds. In that time I fed her 920 pounds of ear corn which at 70 cents a hundredweight would make a total of \$6.44; 8 pounds a day of skim milk for 113 days, which at 25 cents a hundredweight made a total of \$2.26; 8 pounds of table slop a day for 81 days at 25 cents a hundredweight made \$1.62; 1 pound of alfalfa a day for 113 days at 30 cents a hundredweight made 34 cents; pasture for 81 days at 15 cents a month made 41 cents; shorts at \$1.20 a hundredweight made \$1.35. This made a total of \$12.42 for feed for my sow.

"Now during the time I was putting on this gain my sow farrowed April 8 and raised seven fine pigs, four male and three female. The pigs ran with her until 2 months old. I sold one that weighed 75 pounds at 2 months old for \$15; two at same age, weighing 80 pounds each at \$20 apiece; and one at 5 months old, weighing 200 pounds, at \$25, all males. The one I sold at 5 months old was fed 1 gallon of skim milk, 3 pounds of ear corn a day, and was on rape pasture for 3 months, making a total cost of \$4.15 for feeding. He had access to fresh water at all times, and a good clean bed.

"I still have three nice gilts left out of the litter and I expect to keep them as brood sows. They are of an almost uniform build and size. Two of them weigh 260 pounds each, and one weighs 253 pounds. They ran on rape pasture from June 1 to November, when the pasture froze out.

"The pasture for the three at 15 cents a month each was \$1.80, and skim milk for the three for two months, 8 pounds a day, cost \$1.20. Outside of that, their feed has only been corn and water; 9 pounds of corn a day for the three making a cost of corn for 6 months and 10 days \$12.16. The total cost of the feed for these three gilts was \$15.15.

"I have five pigs left of a second litter that are under 2 months old. They will average 40 pounds apiece. Owing to my wanting to raise a fall litter of pigs I just figured the gain of my sow up to August 20 and the gain of the first litter up to date. The cost of the gain on my sow and the one male and the gilts was \$31.72. Any feed consumed by the pigs sold at 2 months was included in the sow's feed bill. I produced 1500 pounds of pork at a cost of \$31.72. My pork cost me a little more than \$2.10 a hundredweight.

"When I started this contest I was almost afraid to undertake it, but my father advised me and encouraged me to buy my feed for my sow and allow for a litter of six, anyway, last fall, so I did it and I don't think I missed it by following his advice.

"I also feel grateful to John F. Case, our contest manager, for the encouraging advice in the Farmers Mail and Breeze, and above all to our good governor, Arthur Capper, who helped me to buy my sow. I paid my note to him with interest. If all Republicans are as good as Governor Capper when I reach my majority I shall vote a straight Republican ticket, and I hope he will head the Presidential ticket."

There's no politics in the Capper Pig Club but I just wanted the older folks to glimpse the enthusiasm of this boy. Arlo cleared \$134.78, not counting his fall litter. After winning the prize Arlo wrote me this: "I had no idea how my records would total up as I did not add the figures until the contest closed, but they are just as I fed. When I began the contest an experienced hog man gave me four pointers on the care of my sow and pigs: regularity in feeding, plenty of fresh water, a good bed, and cleanliness. He said I would put on more fat by following those rules than if I fed three times as much and neglected these

points." And right there you have the big story of low feeding cost for the entire contest.

Boys who have not purchased sows should remember that the sow must be bought and entered in the contest before March 1. She must be weighed and the weight reported to me the day you begin keeping records. Only one boy of all the number qualified has found it necessary to drop out of the club. If for any reason you will be unable to go on with the contest work notify me at once. Don't keep some other fellow from getting a chance. We are going to talk about breed club work and election of officers in an early issue. There's going to be big doings when election time comes around.

And now it's only a few days until it will be too late to enroll in the Capper Pig Club contest for 1917. There still is a place for one boy in Brown, Finney, Ford, Haskell, Lincoln, Marion and Riley counties. Two boys can get into the club in Barber, Barton, Ellsworth, Hamilton, Logan, Meade, Morton, Ness, Rawlins, Sherman, Thomas and Wichita counties. Three boys can join in Graham, Hodgeman, Rush and Sheridan. Four members are wanted in Geary, Lane, Scott, Stanton, Trego and Wyandotte. The counties without a single representative are Ellis, Grant, Greeley and Kearny, and I'd like to see some boy with pep send an application. All the other counties have a complete membership of five. If you live in one of the counties where there still is a vacancy and are within the age limit, 10 to 18, send your name, age, postoffice and county to John F. Case, Capper Building, Topeka, Kan.

### For the Butchering Season

To insure pork of high quality and to improve its keeping qualities, the meat should be smoked. A. M. Paterson, instructor in animal husbandry in the agricultural college says a smokehouse can be built at small cost. It should be well ventilated and high enough so the meat will be 10 feet from the fire. The other dimensions of the smokehouse will depend upon the amount of meat to be smoked.

Care should be taken in putting the meat in the smokehouse that the pieces do not touch one another. Hickory is the best wood for smoking meat. Maple is next, while cobs are good. Never use a soft wood as the meat will have a resinous taste. It is a good plan to warm the meat slightly before smoking. The length of time for smoking depends on the individual taste. After the meat has been smoked, it should be wrapped in sacks or paper and hung in a dry airy place. A grain bin is an excellent place to keep meat.

The cheap cuts of beef, such as plate, brisket, and flanks, are used generally in corned beef. The animal heat should be out of the carcass, before curing, and it should not freeze. Beef should be cured while it is fresh as it is more easily kept and more palatable.

To corn beef use 8 pounds of salt with 100 pounds of meat. Put layer of salt in the bottom of the curing vessel, one-fourth inch thick. Pack in the layers of meat as closely as possible, alternating salt with meat, covering the top layer completely with salt. Let stand over night. With every 100 pounds of meat use 4 pounds of sugar, 2 ounces of baking soda, and 4 ounces of saltpeter. To these ingredients add a gallon of clean fresh water. If the weather is warm, the brine should be boiled and allowed to cool before pouring it over the meat. Add enough water to cover meat. Weigh down to keep meat under the brine. The meat may be left in the brine until used.

When preparing dried beef, the round cut is the better cut to use. With 100 pounds of meat use 5 pounds of salt, 3 pounds of sugar, and 2 ounces of saltpeter. Rub the surface of the meat with one-third of the mixture, let stand in curing vessel three days and then rub with one-third of the remaining mixture and let stand for three days longer. Rub on the remaining mixture at the end of the three days and let stand the same period.

In repacking put the bottom pieces on top, remove from the brine and smoke. Hang in a dry, well ventilated place where the water will evaporate from the meat. Meat may be used as soon as it is smoked. The drier the climate the more easily meat may be dried.

Good roads, according to Howard Rann, are something which everybody wants for nothing.

### Arlo Swears It's True

THIS IS TO CERTIFY that the story and records entered by Arlo Wolf, representative of Washington county in the 1916 Capper Pig Club contest, are a true and correct account of the contest work.

This also certifies that the 1500 pounds of pork produced and the \$31.72 feeding cost filed for record are true and accurate reports.

This also certifies that all of the club rules were complied with.

ARLO WOLF, Contestant.

Sworn and subscribed to before me a Notary Public in and for the county of Washington this second day of January, 1917.

(SEAL)

J. T. MURPHY, Notary Public.



# Beef, and Lower Costs

## Careful Feeding is Required in Getting the Best Results

By W. A. COCHEL

ONE OF the most unsatisfactory situations revealed by an analysis of the cattle industry is a paucity of accurate and reliable figures relating to the cost of producing meat animals. There are men engaged in this business whose incomes indicate that they are far above the average as business men, yet few are able to state the exact cost of maintaining animals of various ages thru 12 months. When pressed for a statement as to costs the question usually is evaded or answered in a general way, which indicates an absence of accurate information.

The reason for this state of affairs is plainly evident. No two years are exactly alike; the yield an acre as well as the nutritive value of the feeds produced from year to year is variable. The amount of feed required to carry an animal thru a normal winter may be inadequate during one that is severe, or more than ample during one that is open. Because of general industrial conditions the breeding herd, which can be considered as capital stock, may be greatly reduced or greatly enhanced in value. The percentage of calves weaned from the cows bred annually may vary from 50 to 100, due to causes over which the cattleman has little if any control. Three years must elapse before any income may be derived from calves purchased to develop a breeding herd. During this time the owner must await, with an abiding faith, the condition of the market on which his surplus is to be offered.

The Kansas Experiment station, during the fall of 1913, purchased 100 head of high grade Hereford heifer calves to be developed as breeding cows. Accurate data has been assembled as to the kind and amount of feed consumed, losses incurred, and labor involved in their production.

### DEVELOPING A BEEF COW.

Cost of heifer calf—fall 1913.....	\$30.00
Weight at weaning time 325 pounds.	
Cost of wintering—6 months.....	12.17
Cost of feed a day \$ .0676.	
Average daily ration—	
Silage.....	25.64 pounds
Straw.....	.59 pounds
Meal.....	1.00 pound
Weight in the spring 458 pounds.	
Pasture rent—6 months.....	4.00
Labor and equipment charges.....	2.00
Taxes.....	.30
Interest—7 per cent.....	2.10
	\$50.57

Cost of heifer assuming 2 per cent loss. \$51.60  
Weight when 18 months old 642 pounds.

The first table presented indicates that a range bred heifer calf weighing 325 pounds at weaning time, wintered on 1 pound of cottonseed meal together with all the silage and straw she will eat, will consume slightly more than 25 pounds of silage a day for six months together with ½ pound of wheat straw. During the winter of 1913-14, which was one of high prices for all kinds of feeds, this cost 6.7 cents a day. Allowing \$4 for pasture, \$2 for labor and equipment charges, estimating interest and taxes at prevailing rates, and allowing for a 2 per cent loss during the 12 months, the total cost would be \$51.60 one year from weaning, or when the heifer was 18 months old.

### DEVELOPING A BEEF COW.

Cost of heifer—fall 1914.....	\$51.60
Weight when 18 months old 642 pounds.	
Cost of wintering—5 months.....	7.53
Cost of feed a day \$ .0502.	
Average daily ration—	
Silage.....	10.00 pounds
Stover.....	10.10 pounds



A Greater Effort Must be Made in Feeding the Cheaper Products Which Have Been Handled Properly—Silage Especially is Important.

Straw.....	3.00 pounds
Meal.....	1.00 pounds
Weight in the spring 723 pounds.	
Pasture rent—7 months.....	5.00
Labor and equipment charges.....	2.00
Taxes.....	.52
Interest—7 per cent.....	3.61
	\$70.26

Cost of heifer assuming 1 per cent loss. \$70.97  
Weight when 30 months old 934 pounds.

During the second year the cost of wintering was reduced as rougher feeds, such as stover, were used, the consumption of straw was increased, and the length of the winter feeding period was reduced from six to five months. The cost of wintering was materially reduced, due to a greater abundance of feed. The heifers were bred during the summer of 1915 to calve in April and May, 1916.

### MAINTAINING A BEEF COW.

Cost of heifer—fall 1915.....	\$70.97
Weight when 30 months old 928 pounds.	
Cost of wintering—5 months.....	6.75
Cost of feed a day \$ .0449.	
Average daily ration—	
Alfalfa hay.....	11.1 pounds
Stover.....	14.8 pounds
Straw.....	.6 pounds
Weight in the spring 931 pounds.	
Pasture rent—7 months.....	6.00
Labor and equipment charges.....	2.00
Taxes.....	.71
Interest—7 per cent.....	4.97
Loss—1 per cent.....	.71
Service fee.....	1.00
	\$22.14

Here is given in detail the amounts of feed and other items included in the preceding tables with the addition of the service fee, all of which make the total cost of maintenance from the fall after breeding until the calf is weaned amount to \$22.14, the cost of carrying a breeding female one year. This amount not only includes interest, labor, taxes, and other charges but also represents quite a material profit in the production of the crops which were fed to the cows and an excellent market for the by-products of grain farming usually practiced in the Great Plains area.

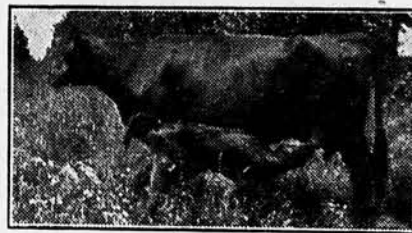
Calf crop	Cost.
100 per cent.....	\$22.14
90 per cent.....	24.60
80 per cent.....	27.67
70 per cent.....	31.63
60 per cent.....	36.90

This table indicates the actual cost of producing calves under conditions usually found in the cattle producing sections of the country. No depreciation is charged against the breeding herd except for actual losses because the individuals which proved to be undesirable were worth more on the market than their cost of production.

It may be noticed that these cattle were kept growing all of the time and that the total amount of feed consumed during the three years, other than that actually produced on the farm, was \$5.09 at prices prevailing when fed or \$5.75 at present prices. The pasture charge is a little higher than usually is allowed in Western Kansas, but probably not more than enough to include maintenance of fences, salt, and other expenses usually incurred in grazing.

The cost is influenced by the percentage of calves weaned. This is one item which should be considered carefully by those whose calf crops fall below 80 per cent, as it may mean the difference between profits and losses for a series of years.

These results have been obtained under the most practicable conditions although material reductions might have followed from the extensive use of wheat



No Worry About the H. C. of L.

pasture, limiting the feeding to stormy weather, and other economies which the assembling of accurate data prohibited. The farmer or ranchman could have taken advantage of these conditions which the purpose of the experiment made inadvisable.

When cattle have paid for the feed, labor, interest on the investment and taxes involved in their production the return to their owner has been adequate. Any further profit must be due to the business ability of the man. In the past when the cost of production was disregarded the cattle industry was one in which speculation had a large part. In the future, the investment will be considered to the exclusion, for the most part, of huge profits and similar losses.

Agricultural colleges, agricultural journals, and other sources of information have been teaching that livestock should have a large place in the farming sections of the United States because feeding livestock makes farming more productive. That livestock feeding is essential to the maintenance of soil fertility, or that crop production is dependent upon the return to the soil of the plant food which is removed in the growing of crops has become almost a platitude. It is time that the cattleman should look at the other side of the story and realize that good farming is the basis on which profitable livestock breeding and feeding industries will be based in the future. We can no longer afford to depend entirely on the grass which nature has so abundantly provided but must of necessity supplement our ranges and pastures with feeds cheaply produced, which will prevent loss during the winter or in the summer when climatic conditions are unfavorable.

The most successful cattleman of the future will be he who studies and works out means and methods of increasing the carrying capacity of his grass lands, grows crops which will yield the largest amount of food nutrients an acre, harvests and stores his feed in such manner as to preserve its feeding value, and supplements it with such concentrates as will increase its efficiency. In addition to this ability as a farmer and feeder he will possess a sufficient knowledge of livestock to select the type of cattle which will most economically turn the products of the soil into meat, and at the same time be desirable either to the feeder because of their ability to finish into desirable market animals, or to the packer because of their ability to yield attractive carcasses. Another factor which will contribute to success is a study of market conditions so his product may be cashed when most in demand.

A cattleman who thoroughly masters all phases of the business and changes his methods and ideas as new conditions confront him will be able to compete successfully with men who cling to the old ways, and he has a most promising future before him. His business is one which demands a large investment of brains as well as capital, upon which he will be able to realize if he has both available. The cost of producing beef, altho never constant, may be reduced by the application of business methods to the problem.

"Sir," said the beggar, plaintively, "the good Lord gave me a stomach."

"Well, what of that?" demanded the passer-by sourly.

"Wouldn't you like to round out his gift?"—Ladies' Home Journal.

## Economy With Farm Work

BY GUY M. TREDWAY  
Allen County

The time of a farmer and his sons should be as valuable in winter as in summer, save possibly that they will not put in such long hours. Little is gained by working early in the morning. Stock will appreciate being undisturbed early. Winter evenings can be spent more profitably in reading farm papers and agricultural bulletins than in working late. But if their time is not fully employed during the day they are actually losing money. If a quarter section is carrying all the stock it is capable of carrying two men will find that they have all they can do to care for it and keep other work done—such as hauling manure and pruning the orchard—so summer work can progress when it should. If the farm is not carrying all the stock it can be made to feed serious loss is entailed. There is the loss of the money the stock would bring, loss from fertility not being returned to the land, loss in time uselessly spent, and loss of the satisfaction one feels in doing his best. If our farms were made to produce to their full capacity, less would be heard about a shortage of beef cattle. Kansas might come to the front rapidly as a dairy state, and much more pork and mutton would be produced. All these would add materially to the wealth of the state and to the wealth of many a farmer. Less would be heard about our lands becoming impoverished, and our hay and grain would bring greater returns than when shipped to be fed by more successful farmers.

Some oats hay is put in our mow every year to be fed to the horses. They will eat little of it until it has gone thru the sweat, and they do not care for it after winter sets in. On the whole it is rather poor hay. One feeding every two or three days is all that will be eaten entirely up. Another hay we carefully avoid is coarse slough hay. If slough hay is cut early a second cutting can always be had, the two making a greater tonnage than if left to be cut when it has made all the growth it will, and the quality of hay when cut is twice as good, at least equal to choice prairie hay.

Farm tools are worth sheltering. While the last snow was on the ground a neighbor came to borrow a fork: "One of mine is snowed under." This fork probably will be exposed to the snow, rain and sun the greater part of the year, and will rot out soon. If properly cared for it would last twice as long. Another neighbor who moved from a white, ashy land farm to one with black soil said it took him a long time to learn to grease his plow every time he unhitched from it. But he has not learned that the other parts of the plow are just as susceptible to the action of weather as the polished moldboard. One spring recently he hitched to a machine in the corner of the field where he had unhitched from it the year before, and it failed to work properly. Then he made his team pull rapidly to get the bearings to working and pulled the tongue out. "It was a poor machine. It had been used but three or four years. I will not buy any more of that dealer," was his comment. Since that time he has thrown away a corn binder and a grain binder because "something was always breaking about them."

Stock need water as regularly these cold days as they do in warm weather. Frequently fattening hogs do not get enough water in winter. Sheep will drink from 1 to 2 quarts a day. They will do better if they can get water often instead of but once a day.

## A Sad Mistake

"Bill," the poet gasped, as he entered his friend's room.

"Why, what's wrong?" the friend inquired.

"Wrong! I wrote a poem about my little boy. I began the first verse with these lines: 'My son! My pigmy counterpart.'"

"Yes? Yes?"

The poet drew a newspaper from his pocket. "Read!" he blazed. "See what that compositor did to my opening line."

The friend read aloud: "My son! my pig, my counterpart!"—The National Monthly.



## A Better Chance for Wheat

BY L. E. CALL

More effort in spreading straw is needed in Kansas. Care should be taken to see that the straw is scattered evenly and not too thick. A thin coating is all that is necessary. The great danger is that the straw will be spread too thick. Just a thin, even coating of about a ton of dry straw to the acre will give the wheat the protection it needs and will not be thick enough to injure the wheat in any way.

The straw should be scattered any time during December or January, or it can be scattered in February or March; but to supply the most protection to the wheat the straw should be spread as early in the winter as possible. On some exposed fields there may be danger of the straw blowing away. On these places it is a good practice to force the straw into the ground by running over the field with a subsurface packer or a disk set straight any time after spreading when the ground is not wet or frozen. This will force the straw into the ground and will not only prevent the straw from blowing off the field, but will give protection to the wheat against blowing.

We do not appreciate as we should the value of straw for top dressing wheat. The protection it affords the wheat from winterkilling and the protection it gives the wheat the next spring from blowing are of small value compared with the ultimate benefits derived from the straw. A top dressing of this kind prevents evaporation of moisture, catches and holds drifting snow, prevents to some extent soil washing or erosion and later, when the straw is plowed under with the wheat stubble it decays and adds humus and plant food to the soil. In the drier sections where the yield of wheat is determined by the amount of available moisture, an increase in the humus content of the soil is important, because it increases the water holding capacity of the soil and thus increases the quantity of water that may be stored in the soil in advance of seeding wheat. An increase in the quantity of available plant food reduces the quantity of water the wheat plant needs for its growth. Consequently the value of straw from this standpoint should not be overlooked.

Straw contains a large quantity of plant food. A ton of straw contains even more plant food than a ton of manure. This is because manure contains much more water and is therefore diluted. The plant food in a ton of straw would cost \$3.50 if bought in the form of a commercial fertilizer, while the plant food in a ton of manure would not cost more than \$2.50.

The plant food in manure is more readily available and for that reason the effect of manure is quickly observed on the growth of the crop. But when the straw rots its plant food becomes available and eventually will be worth as much as an equivalent amount of plant food in manure.

There is some prejudice against spreading straw on wheat because of the danger of increasing insect injury. There is no danger of increasing the injury from Hessian fly by spreading straw. Straw spread lightly as a top dressing does not give winter protection to the fly. The only possible objection to spreading straw upon wheat would come from scattering in this way the Joint worm and the Greater Wheat Straw worm. There is no danger from these insects unless they were present in comparatively large numbers the season before. Injury from these insects usually can be told by the presence of white heads of wheat in the field. White heads also may be caused by Hessian fly. If these white heads are numerous, indicating the work of the Straw worm and Joint worm, the straw should not be spread on wheat fields but should be used as a top dressing on corn ground, where it should be plowed, disked, or listed into the soil early in the spring.

Every farm needs a wood lot. The planting of trees on a large scale is needed on many places, especially in Western Kansas. Trees adapted to the conditions in Western Kansas may be purchased from the Fort Hays Experiment station. Full information in regard to the care of trees may be obtained from C. A. Scott, the state forester, Manhattan, Kan.

Alfalfa is the most profitable field crop.

## More Box Cars for the Hay

The Bales Have Excellent Quality at Gridley

BY HARLEY HATCH

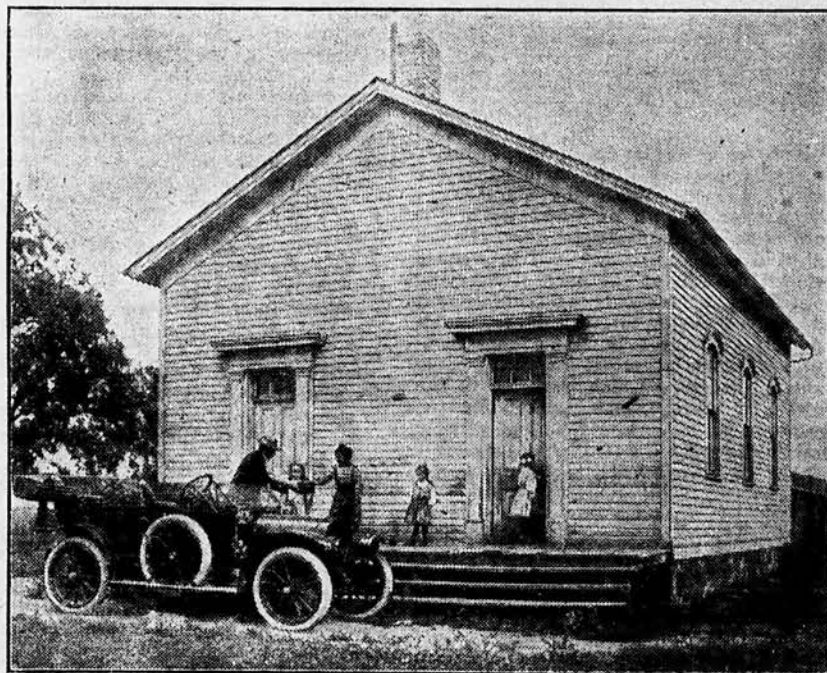
AT LAST the railroads have loosened up on cars and the long sidetrack at Gridley was full recently. At every one was a loaded wagon piling off the bales. Sixteen empties were brought in that afternoon and these were jumped before the train scarcely reached a stop. All this was in addition to the 150 carloads shipped out to the British government. At one time there were 43 wagons loaded with baled hay waiting in the street for their turn to unload. Anyone who knows how much room a big load of baled hay takes will understand that our little town of 300 persons was about filled up with hay that day. I have never seen such uniform good quality in hay as there is this year; every load was a bright green with no off colored bales.

I have never seen so long a period of fine winter roads as we have had in the time which has elapsed between November 1 and now. In scarcely a minute of that time have the roads been anything but as good as a dirt road could possibly be. They are smooth and hard as pavement without a bit of dust. The load that can be hauled on such roads is limited only by the amount a wagon will hold up. The roads in this neighborhood are like the little girl of nur-

little more to operate it. In the first place there is more power; hills that a 4-cylinder has to change gears on are taken with ease by the 6-cylinder. The larger car rides easier, holds much more and suits us better just as a big horse suits us better for plowing than a small one.

But for the man who does not care to spend so much money on a car or on the upkeep the 4-cylinder does well. It is just a matter of being willing or able to pay a little more for what might be called luxury. All the cars made now give good service if they are given proper care. I cannot see why the car put out today is not just as reliable as any other piece of farm machinery. One seldom sees a motor car out of commission these days; probably one sees no more cars pulled out beside the road than one does wagons. Our mail carrier has a light car of a cheap make which makes the trip every day, cold or warm, and he seldom has trouble. He could not make these trips by horse power nearly so cheaply as he can with his car. Gasoline is getting high in price it is true, but how about 60-cent oats and 95-cent corn?

The merchants of our market town are many of them going on a cash basis and those who have reported since the new



very fame; "when they are good they are very good indeed, and when they are bad they are horrid."

A friend writes from Michigan Valley, Kan., saying, "Some time ago you wrote of a state that exempts all mortgages on real estate bearing 5 per cent or less from taxation. Have forgotten what state it was; please let me know." The state in question is Vermont. This was inserted in the tax laws to lower the interest rate on mortgages and it is a success, for scarcely a mortgage is filed there which bears more than 5 per cent. This shows that eliminating the tax rate on mortgages reduces the rate of interest the debtor has to pay. If you hit the owner of the mortgage as hard as you can in the way of taxation he will simply pass the burden along to the interest payer. Personally I think this Vermont law a good one from the standpoint of the debtor.

From Marion, Kan., comes an inquiry as to the relative merits and cost of upkeep of the 7-passenger car as compared with the 5-passenger. We have owned both kinds. We ran a 5-passenger car six years and have had the 7-passenger about 16 months. The new car does not take any more gasoline than the old 5-passenger but that may be accounted for by better construction; the 7-passenger car of today as compared with the 5-passenger, 4-cylinder machine takes more gasoline but it is also a much more satisfactory machine to run. The difference is hard to explain but anyone who has ever had both kinds will know at once just where the 7-passenger, 6-cylinder car is ahead, altho it takes a

rule went into effect say results have been good. I have long thought that the country merchant should do a cash business if he wishes to hold the trade which now goes to the mail order houses. If hearsay counts for anything the average country merchant loses a good deal of money every year on bad accounts, and because of this cannot sell so cheaply as if all bills were paid in cash. This throws the cash trade to the mail order house and leaves the country merchant in the position of getting all the credit business and seeing the best part of the trade, the cash deals, going away from home. Country merchants often say that if all their bills were paid in cash they could meet any mail order price; let them compel cash payments then and I think in one year's time both buyer and seller will agree that all are better off. I note that one of the Gridley merchants who has gone on a cash basis is making prices thru the local paper which really meet those of the mail order houses, and he says that since going on the new basis more new customers have been in his store than in any similar time since he has been in business.

We got in two days' work on the land during the last week. We finished cutting the stalks on a small field and then turned in with two plows on a piece of ground that is very wet in a wet time. I do not favor winter plowing in this soil as a rule; I note that such plowing dries out worse during the next summer than land plowed in the fall or the next spring. But this land is naturally so wet that quick drying would be a benefit instead of an injury in all except the

worst dry years. The soil works well; I have never seen this particular piece of ground turn over in better shape since it was broken out. I do not expect to do much more plowing this month; when we left the plows we gave them a good coating of used transmission grease.

As a result of floods during 1915 and the early part of 1916, which destroyed the roads about as fast as they were replaced, this township was compelled to spend a great deal more than the usual amount. A mistake was made then in not raising the tax levy to meet these expenses and as a result the whole extra amount has been carried over until this year, which starts us off with a debt of almost \$5,000. The tax levy was doubled last fall and it brings in about \$5,000 a year. Most of this money is now in the treasury, and \$2,000 was applied this year on the debt. This leaves a rather small amount for road purposes, and we are hoping that the weather man will be kind to us and not send many washing rains. The roads in this township require much work, as a great deal of heavy hauling is done on them, there being five railroad loading points in the township. The townships which have no railroad points do not get their roads cut up so badly and can keep the highways in shape for at least 35 per cent less expense. It is going to take at least two years to put the township out of debt even if a minimum of road work is done.

## Money in the Hides

It will surprise most farmers to learn how much hide and pelt prices have advanced. Cattle hides are worth as high as \$15. The poor ones will bring \$5 and even a calf skin from a 30-to-60-day-old calf will bring \$4 to \$6.

It pays to skin every dead farm animal. There was a time when cow hides were worth only \$1 to \$2, but now they are worth five times as much or even more. Even the hide of a dead horse is worth \$6 and many bring \$8. The same is true of sheep pelts. Only the other day a farmer received \$2.10 for a sheep pelt that he thought was worth only 75 cents.

Furs are very high, too. Muskrat skins taken off during January and February are worth 20 to 40 cents apiece. Skunk skins also are bringing top prices. Early in December a farmer boy who had dug out 16 skunks sent them to Minneapolis and got \$32 for them.

Just the other day I saw an advertisement in a Minneapolis daily newspaper from some concern that wanted old decrepit horses and guaranteed that they would give them painless deaths. They said they would pay liberally for such animals. Those fellows know how valuable horses' hides have become.

If there ever was a good time to get money for hides or furs, that time is now. The trouble is so many farmers sell to the butcher or local fur buyer and let him have all the profit.

Minnesota. Louis Andersch.

## Wheat Yields Were Small

A cablegram to the Bureau of Crop Estimates, United States Department of Agriculture, from the International Institute of Agriculture, Rome, Italy, gives the 1916 production of wheat in Argentina as 77,394,000 bushels, or 44.8 per cent of last year's crop, and 52 per cent of a 5-year average; Australia, 148,926,000 bushels, or 104 per cent of last year's crop, and 164.4 per cent of a 5-year average; France, 214,624,000 bushels, or 96.3 per cent of last year's crop, and 67.6 per cent of a 5-year average; and the total production of wheat in Denmark, Spain, France, Great Britain, Ireland, Italy, Norway, Netherlands, Rumania, Russia in Europe, Switzerland, Canada, United States, British India, Japan, Egypt, and Tunis is given as 2,478,043,000 bushels, or 75.0 per cent of last year's crop, and 90.9 per cent of a 5-year average.

The production of linseed in Argentina is given as 5,280,000 bushels, or 13.4 per cent of last year's crop, and 16.7 per cent of a 5-year average.

The production of corn in Italy, Russia in Europe, Switzerland, Canada, United States, and Japan is given as 2,744,496,000 bushels, or 83.8 per cent of last year's crop, and 94.7 per cent of a 5-year average.

Red clover deserves a much larger place on the heavy clay soils of Eastern Kansas. On some of this land it will produce better results than alfalfa.



## FOR A WORLD PEACE

Governor Capper has issued the following proclamation, setting aside Sunday, January 28, as Peace Sunday in Kansas, and designating Monday, January 29, as Peace Day as well as Kansas Day, and asking that all loyal Kansans observe the two days:

In the beginning of the New Year, with most of the nations beyond the seas at war, the minds of men everywhere turn to ways and means by which future conflicts may be prevented.

In America, which has profited financially to an incalculable extent by the misfortunes of war-stricken lands, thoughtful men and women are organizing to place in concrete form a plan of world-wide influence which shall have for its object not only the disseminating of peace propaganda, but of still more important significance, a movement to insure its permanence. The League to Enforce Peace seems to be the most practical plan by which this great purpose may be achieved.

Despite the fact that the European war has brought to Kansas millions of dollars in excess of any other year, no person at all familiar with his state doubts for a moment that the people of this part of the Middle West are emphatically opposed to war. No material advantage can serve to change that opposition in an enlightened state where man values are so high. Kansas never has been slow to take its part in such movements. As a state it has responded promptly and generously in every great crisis. Its people have a world-grasp, an intelligent understanding, a quick sympathy, an inflexible determination once they believe in a situation. They may be depended upon always to see their duty and to perform it. They will not be content to stand before the world as onlookers thru any fancied geographical isolation or geographical security. They will ignore material considerations in favor of humanitarian impulses such as are certain to move a big-minded, big-hearted people to whom patriotism means something more than powder and shell.

Believing, as I do, that these expressions represent the feelings of Kansas people, I should hold myself guilty of neglecting a mighty opportunity for good if I did not realize the wisdom of designating a time for the calm and deliberate discussion of this tremendous question. Wherefore, I, Arthur Capper, governor of the State of Kansas, respectfully and earnestly urge the people to set aside Sunday, January 28, 1917, as "Peace Sunday" in Kansas, and Monday, January 29, as "Peace Day" as well as Kansas day. Ministers of the gospel are asked to give special attention in their sermons to the furtherance of peace plans; schools, lodges, farmers' organizations, women's clubs, labor unions and every other form of organization are urged to co-operate energetically to encourage an increased membership in the Kansas branch of the League to Enforce Peace.

### A Livestock Lease

The problems of tenant farming in Kansas can be solved only by renting for a long term of years on a livestock basis. A system of farming based on livestock is certain to be more profitable than one founded on grain farming. Here is a lease that is being used successfully, and with modifications may be adapted to all parts of Kansas.

#### Contract.

THIS INDENTURE made this ..... 1916, between ..... party of the first part, and ..... party of the second part, WITNESSETH that the said party of the first part in consideration of the covenants hereinafter set forth, does by these presents lease to the said party of the second part, the following described property for a period of five years, beginning ..... and ending ..... to wit: .....

The party of the first part agrees to supply suitable family accommodations, adequate shelter for the stock in the way of sheds, barns, etc., and such permanent improvements as are necessary properly to care for the stock and to carry on the work of the farm advantageously. The party of the second part agrees to live upon the above named premises during the time above specified, to perform or have performed all labor connected with the care of the stock hereinafter mentioned, the proper cultivation of the land, and the harvesting and marketing of all crops and products, and at the end of the time mentioned in the lease, to give peaceable possession of said premises in as good condition as they are now, the usual wear, inevitable accident, or losses by fire excepted.

It is hereby mutually agreed by the said parties of the first and of the second part: (1) That all stock owned on the above named premises (including work stock) horses, mules, cattle, hogs, sheep, goats, poultry, etc., shall be owned in common by the parties of the first and second part, each party paying one-half the cost in obtaining the same, and each owning one-half interest in the same.

(2) That all farm machinery, implements and apparatus used in connection with the raising and harvesting of crops, dairying, poultry raising and for the marketing of all crops and products shall be owned in common by the parties of the first and of the second part, each party sharing equally in the cost of the same, and each owning one-half interest in the same.

(3) That the proceeds from the sale of all

stock and farm products, including dairy products, poultry and poultry products, and crops of all kinds, shall be shared equally by the parties of the first and of the second part, with the exception of cotton. In case of cotton, the proceeds from the sale of the lint shall be divided one-third to the party of the first part, and two-thirds to the party of the second part. The seed shall be saved for seed or exchanged for other feed (as meal, cake, etc.) except by mutual agreement. If sold, each party shall share equally in the proceeds. The cost of the ginning shall be shared equally.

(4) That all feed crops raised on the above named premises shall be fed on said premises, except by mutual agreement, to the jointly owned stock. If extra feed is bought, each party shall pay one-half of the cost. The pasture land shall be used in pasturing the jointly owned stock. If more pasture is needed, such as Sweet clover, alfalfa, Bermuda, etc., the party of the first part shall supply the seed or material for planting, and the party of the second part shall plant the same.

(5) That all dairy and poultry products shall be marketed, except the amounts necessary to supply the actual family needs of the parties of the first part and of the second part. Either party may use the necessary amount of whole milk on a basis of 15 cents a gallon, eggs on a basis of 15 cents a dozen, and butter on a basis of 20 cents a pound. In case the cream is separated and used in place of the whole milk, it shall be on a basis of the average market price. All unused milk, as skimmed milk, and separated milk, shall be fed to the calves, hogs, and poultry. (This shall be interpreted as meaning that when either party uses the above products, he shall credit to the other party one-half of the value of the products used and at the prices named.) It is hereby further provided however, that the party of the second part shall have free if necessary for his own use, 2 pounds of butter and 3 dozen eggs a week, and 4 quarts of whole milk daily, providing that it is being produced on the farm.

(6) That, in case animals owned on the premises are killed for meat by either party, said party shall credit to the other party one-half the market price of the same at the time of killing, provided however, that the party of the second part shall have free if needed for his own use, 800 pounds of pork and four dozen chickens a year, the hogs and chickens to be raised on the farm.

(7) That all outside line fences shall be considered as a part of the permanent improvements; but in case of fencing for lots, pasture, etc., the party of the first part shall furnish all materials, and the party of the second part shall perform the labor of building the same.

(8) That seed for planting the regular crops shall, when practicable, be saved from the previous crop. When for any reason seed is bought, the cost shall be shared equally by the parties of the first and of the second part.

(9) That the party of the second part

shall have the exclusive use of an adequate fenced garden, and shall have, in addition, ample ground for growing potatoes, sweet potatoes, and the usual household vegetables for his own use.

(10) That the hauling of materials used for improvements on the above named premises shall be done by the party of the second part.

(11) That in case of extra expense in the harvesting and storing of crops, as in threshing grain or in filling silos, the extra expense shall be shared equally by the parties of the first and of the second part.

(12) That the crops planted from year to year shall be determined by mutual agreement, but a system of crop rotation shall be decided upon and adhered to, except when changed by mutual consent.

(13) That in case dairying is engaged in on a commercial scale, as is herein contemplated, a system of records, tests, and accountings shall be formulated and adhered to.

(14) That, in case of permanent improvements, such as barns, houses, etc., requiring the work of carpenters or other skilled laborers, the party of the first part shall furnish the labor, but in case of ordinary sheds or structures usually built by unskilled laborers, the party of the second part shall furnish the labor. It is hereby understood, however, that a mutual agreement, either oral or in writing shall be entered into in each case before the work is begun.

(15) That at the termination of this lease it shall be renewed for a period, if agreeable to both parties. Whenever the lease is terminated the jointly-owned property may be disposed of in one of three ways: The property may be appraised by disinterested parties selected by the parties of the first and of the second part, the land owner paying the value and retaining the property. If a division of the property is desired, the parties shall divide all property into two lots, and the landowner shall take the choice of the two lots. In case neither of these plans is agreed upon, then the property shall be sold at public auction and the proceeds equally divided. Nothing herein shall be construed, however, to prevent the disposal of the property by any other means mutually agreeable to both parties.

The party of the second part further agrees to keep the premises in good repair, save carefully the manure from the sheds, barns, etc., and to distribute the same on the land where needed.

It is further mutually agreed by the parties of the first and of the second part that in case of serious misunderstandings or disagreements, to submit their differences to a board of arbitrators, of three members, one to be selected by each of the parties concerned, and the third member to be selected by the two thus chosen, and to abide by its decision.

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H. L. Thomson.

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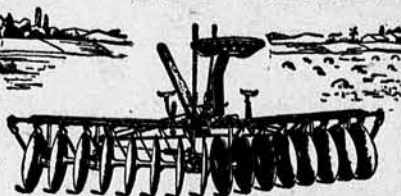
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## Things to Know at 21

At a church meeting in Cleveland, O., recently, the speaker gave the replies of 19 men to the question: "What I wish I had known before I was 21 years old." These are the 19 answers:

What I was going to do for a living—what my life work would be.  
That my health after 30 depended, in a large degree, on what I ate before I was 21.  
How to take care of my money.  
The commercial asset of being neatly and sensibly dressed.  
That a man's habits are mighty hard to change after he is 21.  
That a harvest depends upon the seed sown—wheat produces wheat, thistles bring forth thistles, ragweeds will spoil a good pasture, and wild oats once sown will surely produce all kinds of misery and unhappiness.  
That things worth while require time, patience and work.  
That you can't get something for nothing.  
That the world would give me just about what I deserved.  
That by the sweat of my brow would I earn my bread.  
That a thoro education not only pays better wages than hard labor, but it brings the best of everything else.  
The value of absolute truthfulness in everything.  
The folly of not taking other people's advice.  
That everything which my mother wanted me to do was right.  
That my father wasn't such an old fogey at all; if I had done as he wished I would be very much better off physically, mentally and morally.  
What it really meant to father and mother to rear their son.  
What hardships and disappointments would be entailed by my leaving home against my parents' wishes.  
The greatness of the opportunity of joy of serving a fellow man.—The Irish World.

## Dairy Farming the Theme

The annual meeting of the Kansas State Dairy association will be held at Manhattan, Wednesday, February 7, 1917, during the State Farm and Home Week. A program of unusual interest has been prepared. Dr. L. W. Goss of the college will talk on "Some Common Diseases of Dairy Cattle;" Theodore Macklin, also of the college, will speak on "Profitable Methods of Marketing Butterfat." John B. Irwin of Minneapolis, Minn., will give his experiences in breeding Holstein cattle. Mr. Irwin is one of the foremost breeders of Holstein cattle in the United States, a director of the Holstein-Friesian association and is the owner of Duchess Skylark Ormsby, the world's record dairy cow of all breeds. She has produced 27,761 pounds of milk and 1,205 pounds of butterfat in a year. Mr. Irwin has made his money from his cows, and his experiences and advice should be helpful

to all interested in dairying. F. B. Hills, publicity man for the American Guernsey Cattle club, will be present and tell about Guernsey cattle.

In connection with this dairy meeting and the Farm and Home Week a dairy butter, market milk and creamery butter contest will be held for which more than \$200 in cash and dairy equipment will be offered as prizes. Those interested in this contest should write to J. B. Fitch of Manhattan, Kan., for an application blank in the division desired.

## Blue Rapids Fair

About 400 of the leading farmers and business men of the county attended the annual meeting of the stockholders of the Marshall County Stock Show and Fair association at Blue Rapids January 10. Every township in the county was represented. The county fair for 1916 was a great success and all conditions point to a better one in 1917. This stock show and fair is held in the beautiful Riverside park at Blue Rapids. The following men were chosen to act as the board of directors for 1917: C. J. Brown, E. R. Fulton, D. W. Acker, S. W. Tilley, J. W. Stewart, Neil Robinson, J. M. Rhodes, C. E. Nichols, J. N. Wanamaker, Ernest Hormann, John Cottrell, Frank Lann, C. B. Mayer, W. J. Kinsley and R. J. Wells.

## Plant an Orchard

Farmers ought to plant acre orchards for the production of fruit for home use. "There has been a tendency in the past for farmers to say that they could buy their family supply of fruit cheaper than they could grow it," says George O. Greene of the Kansas State Agricultural college. "The fact remains, however, that in most cases farmers do not buy a regular supply of fruit and with the increasing prices it simply means that even the well-to-do farmers are likely to use less fruit than in the past. It means, also, that Kansas may be classed more and more with the fruit consuming rather than the fruit producing states. The general decrease all along the line in fruit production indicates that in the near future farmers and growers will realize that Kansas is practically without fruit."

The extension division of the college will be glad to make suggestions relative to planting and caring for the orchard.



[illegible]

**When writing to advertisers please mention the Farmers Mail and Breeze.**



## What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO

### About "Doctoring."

I am not sure what my trouble is, but I am afraid of a weak heart or heart disturbance of some kind. I have been reading lately of Dr. ——— treatment for the heart. Do you know anything of this? From the advertisement I judge him to be a specialist along that line. Do you think it would be wise for one to try his treatment? Maybe you can give me advice easier if I tell you of some of my ailments and symptoms. Eight or nine months ago I became so nervous (that's what I thought to be the matter) I could hardly sleep at night. So I consulted a chiropractor doctor. He gave me about 18 "adjustments" and said he thought I'd be all right. Now he was "doctoring" me for six different ailments, heart trouble, stomach, bowels, kidneys, throat, and female weakness, and he said he was as much worried about my heart as any of them. I think he helped me some, but I wanted to be well entirely, if possible. So a few months later I consulted an M. D. He examined me. He said my heart was all right only "beating a little fast on account of nervousness." Then he said that I had "falling of the womb" back and down, and gave me instructions, as to exercises or positions for the cure. He also gave me a tonic and a few tablets for nervousness. Now since consulting these doctors I sometimes feel as if I am all right, and again I feel very nervous (or something). I am bothered a great deal lately by bringing up gas and other times by a gagging in my throat. Now, I am not sick, stomachached with these. It just seems to be in my throat. I usually sleep well (and without a pillow) but am generally a little short winded and nervous just when I first lie down, and a few times while out riding I sensed the same uneasiness. You will please pardon me for writing so much, but I didn't know how else to get the advice I wanted of "what to do" or find out what the matter was. Now I don't expect a lot of your space, just a few words of advice if you can give any. I am a girl of 20—and am trying not to worry, tho I confess I do, sometimes.

The editor is going to print the whole of this long letter for me just because it serves to illustrate to you one of the greatest of American weaknesses. You read along through this letter, sympathetically, and say to yourself, "Poor old lady! What can be done for her?" And then, all of a sudden, that pointed little sentence strikes you squarely between the eyes, "I am a girl of 20!" Think of it; a girl of 20 taking treatment of an ignoramus for six different ailments, not one of which did she have!

Such, however is the tendency of us all. A day comes when we do not feel so vigorous and fresh as seems natural; perhaps we have lost sleep, or eaten too much rich food, or stayed within doors too closely, or applied ourselves too earnestly to our studies, or possibly our dancing. A lower animal under such conditions would go and lie in the sun or shade, depending upon the season, and consider no enticements of appetite, and in a day or so would be quite restored. We go to a chiropractor and get 18 adjustments, and the end of the adjusting leaves us with six different ailments sticking their claws into our imagination instead of one.

When we go to have ourselves adjusted we are not usually very particular as to where we go. A neighbor says "go" and we go as obediently as the centurion's servant. We don't stop to ask if this man to whom we are entrusting the most wonderful machine God ever made was reared to be a blacksmith or a scientist. What he does is a mystery to us and that is sufficient, since, of course it proves that he knows more than we do. If we should happen to know of some person who was just coming down with "the trembles" and had them checked by taking 24 adjustments, that makes us all the more positive. Let him do to us what he will. He's the doctor, and there's no help for us save in doctoring.

Please don't get the impression that these remarks are inspired by animosity to a chiropractor. I never saw one and wouldn't know it if I did. I am condemning any practitioner of any sort, manner or kind who will trump up a lot of reasons for giving treatment to a young girl who, judging from all her symptoms, was afflicted with nothing worse than the well known "green sickness" or chlorosis, and who should have been told to avoid medicine and treatments, live outdoors, eat carefully and forget her symptoms. I don't approve for a minute of the M. D. and his advice, and, because of facts that every doctor knows, I am quite positive that he made his diagnosis on mere guesswork.

Let the people go to doctors with their ailments at all times by all means, even if the ailments be only fancied. But let them choose the doctor in whom they confide with the greatest care, and let

it be a man who has no fear of saying, "There is no ailment. Dismiss this fear from your mind. You need no medicine, no adjustment, no treatment. Live easily and naturally and you will be well."

I apologize to Miss S. for using her letter as a text for a sermon, but I have answered it. Clearly she is of a nervous temperament; undoubtedly brave, but yet anxious. She needs to be out doors enough to overcome her anemia and nervousness. She should eat nourishing food and masticate it thoroly. She should drink freely of clear water, and she should forget that she has organs of any kind.

### Eat Apples.

I have read with interest your column in the Farmers Mail and Breeze, especially answers to inquirers concerning constipation. Now I wonder if you will publish this to help some who are troubled as I was and nothing seemed to help. I tried everything I could learn of, diet, water, enemas and after all I had to depend on physic. An attack of typhoid had left my bowels almost paralyzed it seemed. At last I began eating baked apples, chewing the skins carefully. I kept it up three times a day till I'm almost independent of them and feel like a different woman. Now just one word about the babies. I've often seen them running about with only a thin stocking covering the leg and a thin kid shoe. On investigation their feet proved to be very cold. I think they should wear two pairs of stockings and their feet should be warmed often and kept protected.

\* READER.

We print this with great pleasure. Any other "reader" with like helpful ideas is welcome to the doctor's page.

### Eczema of the Ear.

We have a boy 3 years old. When about 18 months old he had a cold or "gathering" in both ears. They were swollen until they stood straight out from his head and ran matter for two weeks. Our local doctor did nothing but syringe the ear with peroxide and warm water and Denver Mud applications. Since that time whenever the boy has a cold either one and sometimes both ears become red and swollen and very sore, and white blisters like water blisters come all over his ear.

C. B. S.

The purulent discharge from the ears probably has induced an eczema of the auricle. Treatment with an ointment composed of one dram of boric acid to an ounce of white vaselin will be helpful. A more important matter is to be sure that the drums of the ears have healed. You should have him examined by an ear specialist to determine this as it is very important in regard to the future of his hearing.

### The Appendix Also, Usually.

Please tell me the symptoms of appendicitis. Since I was operated on several years ago, having both ovaries removed, have had a dull hurting in my right side. Was told at one time that the appendix was removed and again that it was not. Would the removal of the ovaries cause such a hurting? I am 30 miles from a good doctor and therefore fail to consult one unless really necessary. Is the appendix usually removed also in such an operation? M. E.

It is a rule to examine the appendix during an abdominal operation, and remove it if it shows symptoms of disease. The doctor in charge of your operation should tell you as to this. It is not uncommon for dull pains to persist for years after such an operation as yours. Sometimes this is due to adhesions, sometimes to a failure in circulatory adjustment. I have known such cases to be greatly relieved by wearing an abdominal supporter. Appendicitis would be accompanied by constipation and disturbance in stomach digestion, and the pain would be felt around the navel as well as in the right side.

### It's Acne.

My son, now a young man, is troubled with pimples or eruptions on the shoulders, back of the neck and to some extent on the face. Those on the back of the neck are especially troublesome, for the reason that they are so deep-seated that they seldom come to a head but must be pierced and the pus pressed out. The trouble seems to be hereditary as I myself was troubled in the same way, but not so much so, when a young man, but outgrew it some years later.

W. C. M. C.

Your son's trouble is acne. It is very common in young persons from the age of puberty to the middle 20's, when usually it disappears. Diet is quite important. The patient should limit fats and sugars, and should masticate all food very carefully. The bowels should be encouraged to regular action by eating fruit and drinking freely of water. I have obtained good results in treating deep-seated lesions with electricity. Let your doctor try it.

### May be Adenoid Tissue.

My 3-year-old daughter has a cough which bothers her when she lies down to sleep. Has no trouble when she is up. It started last winter and is beginning again this winter. At times she will not get any rest until midnight. She did have enlarged tonsils and we had one removed, the other

being so small at the time of the operation they could not get it. She has no adenoids. Have tried two doctors' medicines with no relief. Have also tried home remedies such as turpentine mixture, hot and cold cloths on her throat but got no help from them. When she coughs there seems to be loose mucus in her nose that makes a blubbery sound. I am satisfied that the cough is not on her lungs. I make no house plants of my children as they get plenty of fresh air day and night, protected from drafts.

MRS. M. M.

In adults I have known such a cough to be caused by the relaxation of the soft palate and uvula, and treatment of these parts with an astringent has given prompt relief. In so young a child, however, the trouble is much more likely to be due to excessive adenoid tissue. You may think there is none there, but my advice is to have an expert examination made.

### Be Cautious.

What would you advise for inflammation of the bladder? Should a douche of some kind be used?

A douche of boric acid solution is very helpful in many cases of inflammation of the bladder, but the possibility of making bad matters worse by carrying infection into the bladder must not be ignored. Such a douche should be given only by a person trained in the work, such as a physician or registered nurse.

### Operation May be Needed.

Mrs. W. E. S.: Operations for "falling womb" seldom are satisfactory. It sometimes develops that the trouble has been due to a tumor of the uterus in which case great benefit is derived from removal of the tumor. Or the condition may be consequent upon pelvic laceration, in which case repair of the pelvic floor helps, by giving support. If your doctor is satisfied that your trouble is due to one of these causes have the operation performed. Otherwise continue the rest cure.

### There Are Honest Doctors.

Mrs. A. L. C.: I think you should have the operation advised, but don't trust yourself in the hands of a doctor who "will do anything for the money." There are plenty of honest doctors. You need honesty and skill combined.

### May be Epilepsy.

A. B.: I have never heard of neuralgia, in a child, so severe as to demand an operation on the skull. Perhaps it is connected with the mastoid cells or perhaps it is epilepsy. Since you live so near to Parsons I advise you to consult the physicians connected with the state hospital for epileptics. They have very wide experience with all kinds of brain and nerve troubles.

### It Leads to T. B.

X. Y. Z.: It is quite possible for a nasal catarrh to spread to the lower respiratory passages. A simple catarrh should yield readily to a few weeks' treatment. If it does not it is not safe to shut one's eyes to the possibility of tuberculosis.

### Remove the Injured Eye

I have a pony that has one eye with the sight punched out. The eye will not heal. It keeps running, and has an offensive odor. It has been this way for at least a year.

S. L. P.

The best thing that you can do with your pony's eye is to have some competent graduate veterinarian remove it completely. It will not heal in its present condition. It is a constant source of irritation to the animal and as the fly season approaches it will cause the animal considerable pain and inconvenience. Have it removed so that healing may take place before fly season.

K. S. A. C. Dr. R. R. Dykstra.

### An Abscess May be Forming

I have a mare that was 2 years old in the spring of 1916. Her belly from the fore legs to the teats is swelled and feels hard, the swelling is about 12 or 15 inches wide and hard but you can push the end of the finger in, and it takes some little time for the impression to fill up. She plays with the other colts and seems to feel good. The left eye has been swelled and watery for a week. I have washed it in hot salt water but it does not seem to get better. I can see nothing in it. The inside of the lids is red and seems rough.

G. B.

I cannot state positively what the trouble is with this mare as she seems to be affected with a complication of diseases. In my opinion it will require the services of a competent graduate veterinarian to arrive at a definite conclusion. It might be advisable to make a small exploratory puncture into the swelling as there is a possibility that

an abscess is developing. If that is the case, the abscess will have to be lanced and the wound washed out with an antiseptic. If there is no abscess, then influenza complicated with petechial fever suggests itself. A diagnosis of this latter condition can be made only by a personal examination.

K. S. A. C. Dr. R. R. Dykstra.

### A Wire Cut that is Infected

A colt, 6 months old, got cut on the wire three months ago. She was cut on a hind leg, between the hoof and the ankle. The cut became infected, and would not heal properly. The cut is almost healed now, but the leg is much enlarged, and has running sores. The doctor says it has developed into a quitor, and that it may heal up and may not. This colt may make a valuable brood mare, even if she is badly blemished. Is there anything I can do for her?

W. A. S.

Many times wire cuts in the region indicated develop into quittors. In this latter condition there is a necrosis or some dead tissue in the deeper part of the wound. This dead tissue may be either tendon or cartilage. The only way in which relief can be obtained in these conditions is by means of a surgical operation in which all the dead tissue and surrounding healthy tissue is removed so that an absolutely new clean wound will be created. Treatment consists in keeping the wound clean by means of antiseptic washes until healing is complete. If the case is not a very serious one relief sometimes can be obtained by taking a piece of cheese cloth, saturating it with a 10 per cent watery solution of zinc chloride and packing this into the wound. Such a solution will eat out a considerable amount and possibly all of the diseased tissue and if good drainage is provided for wound discharges, healing may take place. The trouble with this form of treatment is that many times all of the diseased tissue is not removed, a great deal of healthy tissue may be removed and healing will not take place. Therefore, the surgical method is advised.

Dr. R. R. Dykstra.

Kansas State Agricultural College.

### Squeeze the Warbles Out

My cattle are afflicted with warbles. I have squeezed out a few. Are these warbles an injury to the cattle? What should be done to relieve the cattle, and can you recommend a way to prevent the warbles?

G. M.

If there are many warbles present under an animal's skin they frequently produce unthriftiness. The biggest loss, however, is due to the fact that the warble makes a small opening in the skin and the latter loses considerable in value in this way. The only way to remove the warbles is to squeeze them out or if that cannot be done to enlarge the opening slightly with a sharp knife and with proper antiseptic precaution. It is claimed that infestation with this parasite may be prevented if during the warm summer months the upper surface of the animal's body is smeared with rancid lard, unsalted rancid butter or other foul smelling material.

K. S. A. C.

Dr. R. R. Dykstra.

### Wind Puffs on a Mule's Legs

I have a 2-year-old mule that has wind puffs on its hind legs. I have tried several common remedies and got no results.

C. P.

Windpuffs are enlargements of the joint cavity. They are ordinarily considered to be a blemish, but not an unsoundness as they never cause lameness. Their treatment is not very satisfactory because it is dangerous to open the swelling and in that way remove the joint water that they contain. Some horse owners claim that they have used the following preparation with good results:

Resublimed iodine ..... 4 drams  
Spirits of camphor ..... 4 ounces

The hair is clipped over the swelling and the foregoing mixture is rubbed thoroly into the swelling by means of a stiff bristled brush. This treatment is to be repeated daily.

K. S. A. C. Dr. R. R. Dykstra.

### After English Sparrows

The League of American Sportsmen, with its office at 1110 Simpson Street, New York City, has declared war on the English sparrow and hopes to exterminate it within the next three years. Trapping and shooting are the methods which will be used. Farmers' Bulletin 493 of the Department of Agriculture, Washington, D. C., tells how to make traps which will catch sparrows.



# It's Up to You

When Your Animals  
Get "Off Feed" and  
Do Not Thrive



## Dr. Hess Stock Tonic

**Gets Rid of Worms  
Makes Stock Healthy**

We are now in the dead of winter. Animals are closely stabled and on dry feed. You are crowding them. You want them to eat well and turn their feed to good account. Remember, your animals are not out on pasture. It is up to you to supply the laxatives and tonics and blood purifiers. Dr. Hess Stock Tonic will

### Condition Your Animals

It cleans out the worms and improves the appetite. They will then eat their feed with a relish because worms will not be distressing them. They will be free to digest, assimilate and get the good out of their feed. Dr. Hess Stock Tonic is not a secret preparation. Here are some of the ingredients and what they do—the same for animals as for the human family. Ask any doctor, consult any medical work:

Nux Vomica, nerve tonic, aids digestion.  
Quassia, tonic and worm expeller.  
Sulphate of Iron, blood builder, worm expeller.  
Charcoal, prevents unhealthy fermentation.

Sulphate of Soda, a laxative and liver tonic.  
Epsom Salts, a laxative.  
Nitrate of Potash, acts on the kidneys.  
Foenugreek, a flavor.

You will be well repaid for this special care of your live stock. Horses will be in condition for spring work, cows for heavy milking, sheep will fatten up, hogs will be free from worms and make larger growth.

### Why Pay the Peddler Twice My Price?

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**25-lb. pail, \$2.00; 100-lb. drum, \$6.50**

Smaller packages as low as 50c (except in Canada and the far West and the South).

So sure am I that Dr. Hess Stock Tonic will put your animals in a thriving condition, make the ailing ones healthy and expel the worms, that I have authorized my dealer in your town to supply you with enough for your stock, and if it does not do as I claim, return the empty packages and my dealer will refund your money.

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This is just the time you should be giving your poultry this splendid tonic. It will put them in fine condition, make your hens lay, insure fertile hatching eggs and strong, vigorous chicks. Very economical—a penny's worth is enough for 30 fowl per day. Sold only by reliable dealers—1½ lbs. 25c; 5 lbs. 60c; 12 lbs. \$1.25; 25-lb. pail, \$2.50 (except in Canada and the far West). Guaranteed.

#### Dr. Hess Instant Louse Killer

Kills lice on poultry and farm stock. Provide your hens with a dust bath, to which add Dr. Hess Instant Louse Killer occasionally. The hens will do the rest. For lice on stock, with one hand rub against the hair and with the other sift the Louse Killer. Rub thoroughly into the skin. 1 lb. 25c; 3 lbs. 60c (except in Canada).

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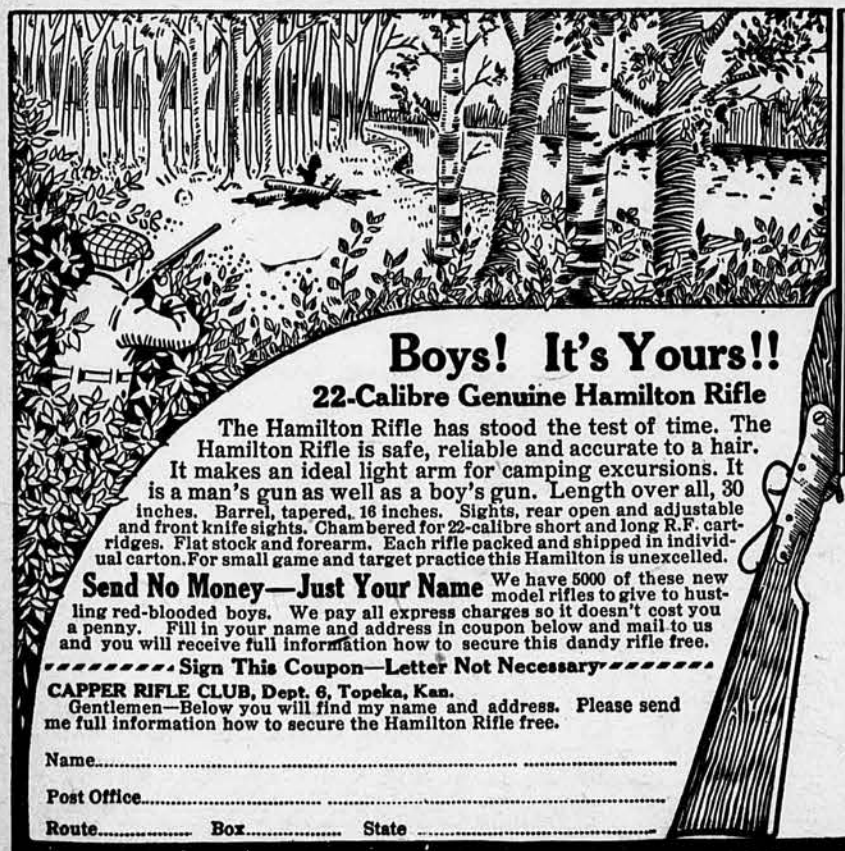
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## Bargains that Prove too Dear

BY MRS. DORA L. THOMPSON  
Jefferson County

Several January-February special sales catalogs recently have come to hand with all their interesting offerings. One of the first impressions made by a glance thru them is the difference in the prices for this year and last. This is especially noticeable in muslin and cotton goods. A 20-yard piece of sheeting is, in one catalog, 30 per cent higher than last year. Many offerings that at first glance appear to be bargains are really not good price savers. Take blankets, for example. A blanket less than 72 inches wide and 84 inches long is a nuisance. Most of the bargain blankets are about 60 inches wide and 76 inches long. Percale has for its main advantage over calico the fact that it is usually a yard wide, but the bargain percale is 27 inches wide. There are, of course, many real bargains as well as many apparent ones. We are confident that we should not invest in some of the apparent bargains if we could see them on our own merchants' counters. About the best sort of bargain selection, we believe is that of buying in season. Our buying experience does not extend over many years, but as far as it goes, we have generally noticed that sugar is cheapest in January and February and flour in August.

The state board of health car, "Warren," made a stop of a day in our locality. There was much of interest for many classes of people; school officers, druggists, owners of meat markets, and farmers—but especially for mothers of little children. The school officer might well notice the newer kind of desk and seat, both of which are adjustable to the size of the child and to the needs of his work.

Sanitary containers for drugs were shown, as were the newer sorts of sanitary drinking fountains and filters. Hooks for meat in meat markets were shown in model form made of polished metal and removable. Thus they are more easily cleaned than the old iron hook.

The mistake in many farm plans was very plainly shown by a miniature set of farm buildings. The open well for the house was dug in sandy soil lower than the barn and outbuildings. It was evident that all the filth of the farm drained toward the well.

Tables of statistics showed that more farm women have died from tuberculosis than have farm men. This probably is due to the woman's indoor work. We of Jefferson county felt quite proud of the comparatively few cases of tuberculosis in the county.

The keynote—the main message of the whole display—was the benefits of fresh air at all times, night and day. The covered outdoor crib for baby, the indoor awning for the window, the outdoor screened in tent, the dress for the outdoor school child, and the big telescope's star with its wording of, "Sleep with your windows open"—everything was calculated to impress the visitor with the health giving power of fresh air.

A separate table for little children whose bill of fare should be radically different from the elders' was another good suggestion seen in the health car. In too many farm homes the child of a year or less is given a "taste" of everything on the table. It doesn't seem possible that in this age of enlightenment any grown person would chew the food for a child. Yet one woman who visited the car wondered why no warning against this practice was given. She said she had seen that act several times lately. Doubtless the board of health would find it difficult to believe that anyone could be so ignorant.

In cold weather the best place for a baby is his own home. For an occasional trip to the neighbors' we have in use a very handy eider-down wrap. This is made much like a sack enclosed at both ends. The front is cut between the seams and slightly rounded at the neck where the close fitting hood is attached. We spread this wrap on the couch, lay the baby within it and button up the front opening. Arms and feet are thus enclosed and the clothing is not all bunched up under the arms as is likely to be the case with loose wraps.

## Stitches in Crocheting

**Chain Stitch**—Catch thread with hook forming a loop. Pull thread thru this loop to form first stitch. Continue chain for desired length.

**Slip Stitch**—Insert hook in a stitch of the preceding row and draw thread thru it and the loop on the hook at the same time.

**Single Crochet**—Insert hook into the work, draw loop thru, draw thread thru the two loops on the hook at once.

**Double Crochet**—Throw thread over the hook, insert hook into the work and pull thread thru, thread over hook again and draw thru two of the three loops now on hook, thread over once more and draw thru the two remaining loops.

**Half-Double Crochet**—Throw thread over hook and draw a loop thru the work, throw thread over again and draw thru all three loops on hook.

**Treble Crochet**—Made the same as a double crochet except that the thread is thrown over the hook twice before inserting hook into the work, and in working off, the thread is thrown over the hook three times, being drawn thru two stitches each time.

**Picot**—Make four chain stitches and a single crochet into the first stitch of the chain.

## One-piece Frocks Still Good

This pretty dress in the popular one-piece style is suitable for school or dress-up wear, or may be developed in percales and gingham for house dresses. It



8135

is cut in sizes 14, 16, 18 and 20 years. The pattern, 8135, may be ordered from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents.

## Who Has this Pattern?

A request has come to the Women's page from Mrs. A. T. Hoover of Dickinson county for directions for a crocheted hood for a child 18 months old. The editor has nothing of the sort on hand at present. Will some reader be good enough to help us out? Please send the cap along with the directions so that a photograph can be made. The cap will be returned promptly and in good condition.

When thin material as organdie or crepe de chine is to be sewed on the machine, lay a strip of paper under the cloth and sew thru both. The fabric will not wrinkle and the paper tears out easily after the sewing is done.

For hotels and similar places a new motor-driven machine will wash and sterilize 1,800 drinking glasses an hour.

Burn a handful of brown sugar in a room or house where bad odors are and they will be quickly dispelled.



## You Need Not Send Flowers

There are Many Other Gifts an Invalid will Enjoy

BY GRACE UTT

YOU have heard that your friend is ill, and after the first feeling of deep regret, comes the desire to send something which may carry your love and sympathy. To be sure, you think of flowers, and it's a sorry sick room that hasn't them, but you want something a bit more personal, perhaps, or something more practical; and because the friend is a very dear one, you are willing to make some sacrifice, if necessary, that she may have comforts.

A gift which will find a welcome long before the patient is able to sit up is pillows. Until you have been on your back for at least a week, it's difficult to realize that the right pillow can make such a difference. Most households possess an abundance of bed-size pillows, but where can you find one to fit that aching hollow in the back; or one to ease that cramp in the shoulder; one to



relieve the "gone" feeling in the side? There should be a few small square pillows, some long narrow ones, and small round ones. Make several covers for each, of light, washable material. The colors in the sick-room furnishings will be your guide in selecting materials.

Soft, warm bed-shoes of outing flannel or eider-down will keep many a patient from waking with cold feet. The patent electric warmers are the best, but they are also expensive enough to be beyond the reach of many a person who needs them. Fine white stockings are desirable, too, and most acceptable during the first sitting up days.

The bed-side tables are ideal presents for one who must have many meals in bed. They can be adjusted to any height above the bed, they have a retaining rim at the edge, and may be tilted to make a reading stand during convalescence.

### Pretty Dishes and Appetites.

Individual dishes make an appropriate and often much needed gift. No matter what the disease, the patient's dishes should be kept from the ones in use by the family. These dishes should not be expensive. At the 10-cent stores dainty creamers and sugars (very small) may be bought for 10-cents apiece, and cups and saucers, small plates, and tumblers are the same, so that an entire set should not cost more than 60 or 70 cents. The ordinary table knife and fork, even tho small, are too heavy for a weak wrist and hand to support. A child's set in plated ware is much better and costs little. Ask any invalid who has tried the small set, and see if it has not proved a help.

Then there are all sorts of linens that are used in the sick-room daily, and since these are things that anyone likes to possess, why not choose them?

Dainty fringed tray cloths make the food ever so much more attractive. Small napkins of fine linen in the same design would be a good addition. Soft towels, linen and Turkish, and wash-cloths with a distinguishing mark are acceptable for these, even more than the china and silver, must be strictly the patient's own. Handkerchiefs, dainty and plain, are never out of place. If you are giving to an intimate friend or a member of your family, and know that the handkerchiefs used in bed are burned, you might cut from some soft, worn-out garment small squares to take the place of torn rags or good 'kerchiefs.

Nothing could equal a soft woolly blanket as the best gift obtainable. In winter or chilly spring, the patient needs plenty of cover and it must be light and warm. To keep the bed properly aired day and night is no small task, and the nurse surely will bless the friend who

adds to the bedding. The single couch blankets are lovely gifts, too, and may be used either as bed covers or in the big chair during convalescence.

### For the "Sitting Up" Stage.

A pretty kimono is almost indispensable during the days between night gowns and "real clothes." A lace cap, trimmed to harmonize, might be added to cover the unruly, unyielding hair.

If a patient is ill long and sits up in bed at all, a "hug-me-tight" or porch jacket is a necessity. These are usually crocheted, but could be made quickly from outing flannel or eider-down. They are to protect the back, shoulders and chest, and should not come below the waist.

When the patient is able to read, send stories, jokes, and pictures cut from newspapers and magazines. These are easily handled, and are often more enjoyed than entire books, which must sometimes be laid aside at a point where the story is most entertaining, and as a consequence, sleep is hard to coax.

After the patient is able to be about the house there are letters long unanswered, notes of thanks to be written and regrets to send here and there which demand quantities of the best stationery. What could be better than to find that some thoughtful friend had anticipated this want? Indeed, a box of assorted stationery, with a few books of stamps thrown in, might prove the most acceptable gift of all.

### Put the Soup Kettle On

Soups and stews are relished for supper these cold winter nights and are a good way to use small quantities of foods left from other meals. French cooks famed for their economy and skill keep a soup kettle on hand and into it put meat bones and gravies, scraps of celery and left-over vegetables of all sorts so that they are always ready to serve a savory, hot soup. These recipes given here have all been tried in farm kitchens and proved good.

### Cream of Tomato Soup.

Force 1 quart of canned tomatoes thru a sieve and stir into it 1 teaspoon of soda. Melt a tablespoon of butter in a saucepan and blend into it 1 tablespoon of flour, then add 1 pint of hot milk and salt and pepper to taste. When it boils, add the tomatoes, and let it get hot again but do not boil. Serve at once.

Mrs. A. J. Cliff.

Otero Co., Colorado.

### Italian Soup.

Break 6 or 8 sticks of macaroni into small pieces and put them to soak for an hour or two in cold water, then drain and add the macaroni to 2 quarts of hot beef broth made by cooking a soup bone slowly with a little celery, onion, bay leaf and other seasonings as desired. The broth should be strained before adding the macaroni. Let cook for half an hour or so until the macaroni is tender, then grate in ¼ pound of good cheese and serve at once.

Mrs. Sam Stone.

Riley Co., Kansas.

### Vegetable Soup.

One cup of cooked Navy beans, 1 large potato chopped into small pieces, 1 large onion chopped, ½ cup of tomatoes, a pinch of celery salt or a stalk of celery chopped, salt and pepper to taste and a little beef broth or a small lump of butter. Stir a pinch of soda into the tomatoes, and add a quart of milk to the mixture. Cook slowly until the potatoes are done, then serve hot. The amounts of ingredients may be varied to suit the materials on hand. Scalloped, mashed, or plain boiled potatoes may be used instead of the uncooked.

Mrs. O. T. York.

Douglas Co., Kansas.

Baked potatoes are greatly improved in appearance and taste by making two slashes in the top to hold butter and parsley.

If you want whole pecan meats, pour boiling water over the nuts, let stand a few minutes then crack carefully.

## Practical Economy in Home Baking

Royal Baking Powder and Dr. Price's Cream Baking Powder are made from Cream of Tartar, which is derived from grapes. They leave no bitter taste and produce food which excels in flavor, texture and keeping quality.

It is not economy in the end to use other baking powders because they cost less.

Cheap powders differ greatly in leavening power.

If an inferior baking powder is used for a fine cake and the cake turns out a failure there is a waste of other materials worth much more than a whole can of the cheap baking powder.

There are no failures with Royal Baking Powder or Dr. Price's; hence they are economical in practical use.

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Send me your name and address today so that I can mail you my big money-saving fence book. Hundreds and thousands of farmers living in every part of the United States save 25% to 85% by taking advantage of my low factory to farm prices. I have factories or warehouses at Ottawa, Kansas, Denver, Ft. Worth, San Francisco, Winnipeg and Brazil, Indiana. Shipments made promptly from any point—address all mail to Ottawa, Kansas.

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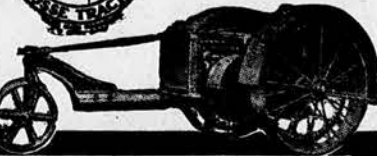


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## Foolish Frolic Bushy Tail

"Duty before Pleasure" is a Good Motto for Little Squirrels as well as for Boys and Girls

THERE ONCE lived in a hollow tree a family of squirrels called the Bushy Tail Family, because they all had such bushy tails. There were Father Bushy Tail and Mother Bushy Tail, and three children, Frolic and Frisky and Bright Eyes.

One warm October day the father said: "Come, children, we must all work hard to gather in our nuts, for soon the winter will be here."

"All right," answered Frisky and Bright Eyes. But Frolic, who was a lazy little squirrel, said: "I don't want to work—it is so warm that I do not believe that the snow will be here for a long time."

"Now, Frolic," said Mother Bushy Tail, "you are so young that you do not know how necessary it is in these warm days to prepare for the winter, when we cannot find our food."

"Oh, dear!" said Frolic; "I want to have my own way, and run about and play. I can find food enough for today."

"Very well, Frolic," said Father Bushy Tail sternly, "do as you please all day." And all the family except Frolic scrambled down and began to pick up nuts.

Frolic did not like to be left alone. "I will go away and have some fun," he said. And so he climbed from tree to tree, calling to his friends to come and play tag with him.

"No, we have no time; we are storing away our harvest," said the squirrels. And not one squirrel would join him.

He sat on a log and watched the workers; but the big squirrels scolded him and called him "lazy," and Frolic did not like that. He rustled about among the fallen leaves, and then he climbed up in the trees and began to run from branch to branch, and to take long jumps. He picked up some nuts and ate them for his luncheon, and the day dragged slowly on.

As it was growing dark in the forest Frolic decided to go home; but when he reached home no one was there and, feeling very forlorn, he cried himself to sleep. Georgene Faulkner, who told this story in the Ladies' Home Journal, said that he was soon awakened by a noisy chattering as the squirrel family came home.

"What fun we had!" chuckled Bright Eyes. "To think that at last we went to the big hill and climbed the tallest tree."

"Yes," said Frisky; "and wasn't it fun to have our supper out there in the moonlight? We never had such a perfect party!"

"It was not perfect without Frolic," said Mother Bushy Tail sadly.

"He did not work with us, so why should he play with us?" said Father Bushy Tail. "He had his own way and played during our work time, so he deserved to be punished for his folly."

Frolic heard every word; and the next day he said: "I am sorry that I wasted my time yesterday. I did not have a good time playing alone, and now I want to work with you."

### How Many Words Can You Make?

See how many words you can make out of the letters in the words "Farmers Mail and Breeze." There will be a prize of 50 cents for the person sending in the longest list of words, 25 cents for the second longest list, and a package of postcards for the next five longest lists received by February 13. Address your lists to the Puzzle Editor of the Farmers Mail and Breeze, Topeka, Kan.

The eight words in the puzzle in the December 30 issue are: 1, elderberry; 2, raspberry; 3, strawberry; 4, blackberry; 5, blueberry; 6, dewberry; 7, mulberry; 8, gooseberry. Prize winners are Ella Niemoeller, Mildred Whitehead, C. B. Hall, Hubert Rexer, and Susie Winship.

### Drown the Muskrat

I have trapped the 'coon, skunk, 'possum, civet cat and muskrat. I usually catch muskrats at the foot of slides, or at the entrance to their dens and have also caught them by using bait such as apples, potatoes, beets and carrots. I set

my traps for muskrats in about 2 inches of water, staking out in the water as far as the chain will reach, so that when a muskrat is caught and it dives for deep water it will drown. I put the bait on one end of a stick—which is stuck in the mud so the bait will be about 6 or 8 inches above the trap.

My cousin and I caught a few fine old skunks and a few civet cats a few years ago and put them in a small house together. Those animals certainly did some scrapping and the civet cats finally gnawed a hole thru the house one night and escaped. The skunks did not get out. We gave them milk and rabbits and they soon became very tame. Skunks are very little trouble if they are kept alone in a good place and are not disturbed.

Daniel A. Schlotthauer.

Marion, Kan.

### He's a Young Musician

This is Charley Irish of Lacrosse, Kan. He can play beautifully on the harp and all his friends like to listen when



he plays. His favorite songs are Red Wing, and Casey Jones but he can play others, too.

Charlie has some brothers and they all like to read the Farmers Mail and Breeze, he says.

### Youthful Observations

My Pa's a' awful funny man—  
Can't stand a bit o' noise;  
He says "to be more seen than heard"  
Is just the rule for boys.

He questions me most ever' night  
'Bout forty-seven things;  
But scolded when I asked him where  
The Angels got their wings.

He said he'd whip me good an' hard  
If I should learn to smoke;  
But he smokes stogies by the box,  
An' thinks it is a joke.

My Ma said if I told a fib  
She'd skin me, just about;  
Then said: "If ol' Miss Leighton calls  
Just tell her I am out."

She said if ever I should bet  
I'd meet a' awful fate;  
But she played euchre at the club  
An' won a china plate.

An' then, she said it was a sin  
Fer any one to cheat;  
But passed a power nickel when  
She paid the boy fer meat.

They scold if on the floor they find  
A marble or a toy;  
I guess it's 'cause the growed up folks  
Don't understand a boy.

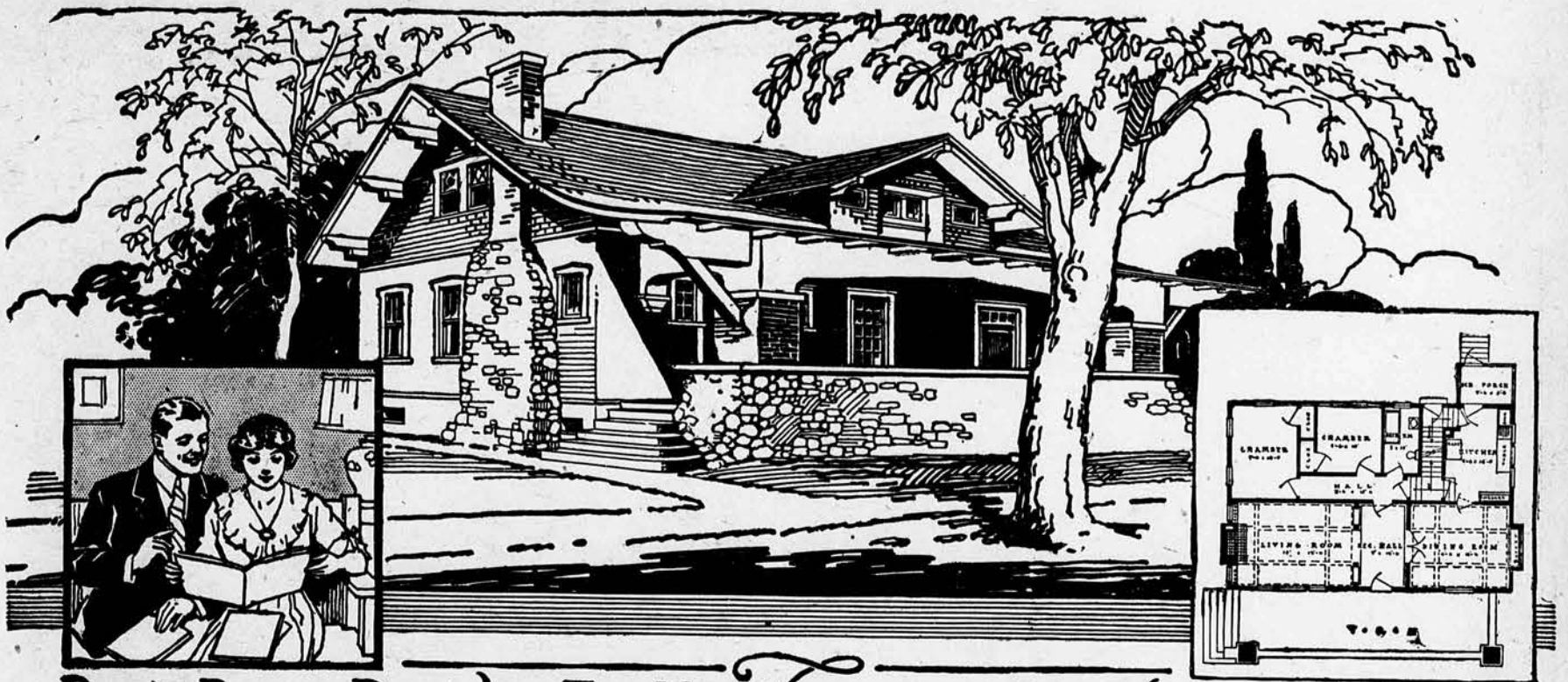
Wills, Kan. —Harry J. Williams.

### 'Coons are Good Fighters

The raccoon has grayish brown fur and is about the size of a large cat. This animal lodges in hollow trees and feeds on fish and vegetables. My partner and I took our dogs and went hunting one night. We started off toward the creek and got two opossums on the way. We walked on until we came to a bluff and then the dogs opened a trail and began barking and circling around in the sage grass and finally treed a 'coon. There was a large grape vine on the tree and I climbed up as far as I could and shook the vines and out went Mr. 'Coon right on top of the dogs. The dogs killed him but he put up a hard fight and almost wore out the dogs first.

Raymond Randall.  
Carthage, Mo.





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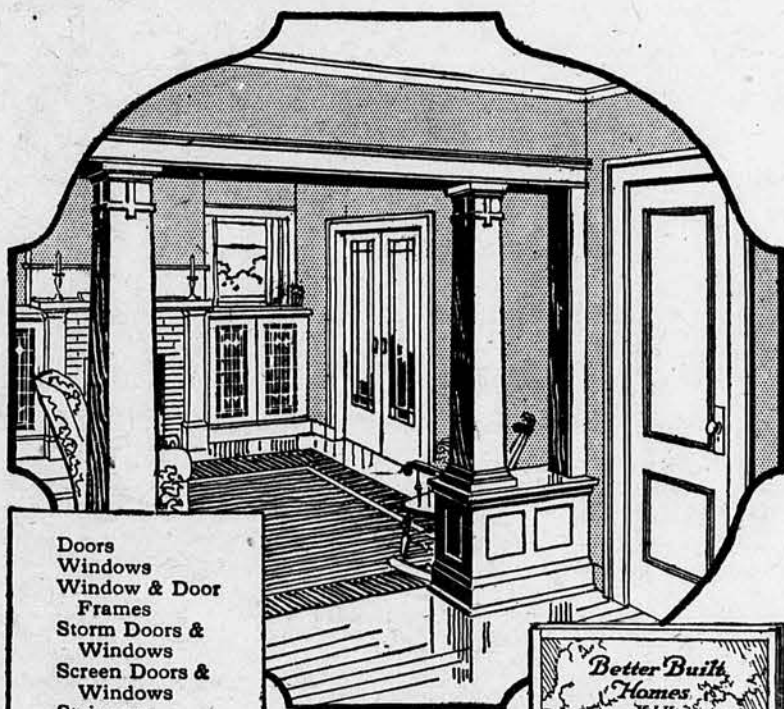
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### Pack Hatching Eggs Carefully

It is all right to ship eggs by parcel post if they are to be used for cooking, but for hatching I should not pay the postage on them. I sent 50 eggs by parcel post, packed in good egg boxes, and only seven hatched. Another time I sent 100 by parcel post and 17 chicks hatched. I replaced those eggs at half price and sent them by express packed in a common sirup box. I put in a good layer of excelsior, then put in common egg fillers and wrapped every egg in soft paper. I put them in the fillers, packed excelsior all around the fillers and put a layer on top of the fillers. I never heard any complaint about this shipment. For shipping a few eggs I like the market baskets with drop handles. I put a heavy cardboard in the bottom, then a layer of hay or excelsior, then the filler. I also wrap every egg in paper and place it in the filler with the little end down. When the filler is full if there is room in the end of the basket I cut two or three rows off another filler, put it by the one already filled and fill it in the same way. I put excelsior on the top and pack good around the sides and ends. I sew cloth over the top, tie the handles together, label, and the eggs are ready to ship.

Nashville, Kan.

Sarah Peters.

### Selling the Chickens Dressed

Where eggs are the main object in handling chickens, most poultry raisers agree that the White Leghorns are unsurpassed. The question is what to do with the young roosters. As soon as they weigh a pound or a trifle more live weight, I dress them and cut them up just as I would prepare them for my own table. After arranging the pieces neatly on a small plate and covering with oiled paper I wrap them in newspapers and pack them in a basket. I choose a street in town where the people are well to do but where the women do their own work. One has only to show the chickens and they are sold. Women will buy them even when their own back yards are full of fryers just because mine are ready to put into the skillet. I set a season price of 35 cents each and refuse to weigh them or sell by the pound. That way I can market a season's hatch in a few weeks, selling them every Friday or Saturday. The White Leghorns are easy to dress. By having one of the men do the killing, a person can dress 20 or 25 in the morning and drive 4 miles to town by noon.

Locksburg, Ark.

### Don't Have a Drafty House

To take care of poultry in winter keep out all drafts and keep the hen house warm. The most important grain to use if you wish to make hens lay is wheat and oats. Give a warm feed at night and plenty of warm water twice a day. Never let the hens out in snowy weather as it stops their laying. Let the hens have fresh air in their sleeping rooms.

Mrs. M. I.

R. 1, La Crosse, Kan.

### Lumber from the Logs

BY W. H. COLE  
Cowley County

A saw mill is being operated a few miles away and it is our intention to have some oak logs saved into eveners and wagon tongues. The logs for this purpose have been cut more than a year, and we think they are sufficiently seasoned so the sawed lumber will not warp badly. A well seasoned Burr oak evenner, such as these will be, is very durable. Red elm also makes a good evenner.

One can easily pick out the fields that were well prepared for wheat. Early and thoro seedbed preparation shows in the growth and general appearance of a crop just as surely as good breeding in an animal. Fifty acres of wheat was sown on this farm last fall, and all of it was put on corn stubble. The corn was fairly well cultivated, considering the season, and with the exception of 2 acres was free from weeds. With the exception of about 5 acres it was all laid by before harvest, and this 5 acres was cultivated quite late. The corn was cut with a binder and put into the shock, and the disk was started. By lapping the disk half an excellent seedbed was produced, and when seeding time arrived the field was drilled across the rows. The 5-acre strip, which was

cultivated late and which is in the center of the field, came up first and has stooled the most. While the rest of the field has a thrifty appearance it does not in general appearance or condition compare with it. There is just one thing responsible for its superior appearance and condition, and that is the late cultivation.

The prices change so much, and always upward, that we are almost afraid to ask the price of anything. In getting ready to saw wood we were in need of a piece of leather to lace the belt on our saw rig and when in town we went to the hardware store to get it. A strip 1/2 inch wide across the hide, such as we used to buy at the rate of three for 25 cents, was selected, and when we asked the price the dealer took our breath away, so to speak, by saying that he had to get 35 cents for that strip. There is something wrong somewhere when one must pay that price for a strip of lace leather 1/2-inch wide and 6 feet long.

There has been no rain for a good many weeks yet we notice that the creeks and branches are filling up to a considerable extent, and the springs are beginning to show some signs of life. The fact that during cold weather there is little or no evaporation may in a measure account for the increase in the water supply, but regardless of its cause it is welcomed by stockmen.

The loads of goods one sees every day that are being moved from one farm to another are the first real signs of spring. Farmers seem to wish to move, or at least they do move a great deal, and it is one of the most costly pastimes, if such it may be called, that the farming Americans support. A person does not really know how much he has until he undertakes to move. No matter how careful one may be there is always more or less damage done to both goods and machinery in moving, and the time that is lost, especially if one is moving several miles, puts another item to the expense bill.

After inspecting the work done this winter by the pupils in our school we are convinced that the young people of today are enjoying advantages in schooling that were not available to the pupils of 15 or 20 years ago. The maps and charts of the present day make the study of history, grammar, geography and physiology so plain and simple that we cannot see how even the most backward pupils could fail to learn. Drawing and painting are now being practiced, and the walls of the school building are adorned with paintings that are really clever and artistic. In most instances they are the work of pupils under 12 years old.

For genuine richness we doubt if there is any milk that excels that of a good Jersey cow. We have one on this farm which runs on the wheat during the day and when she comes in at milking time she acts as tho she had eaten so much that she was in misery. But the wheat produces the milk in abundance and that which is left in the crock or pan overnight for use in the morning has exceedingly heavy cream on it. Where a person has but a limited amount of pasture there is, according to our notion, no better family cow than a wellbred Jersey.

We are no longer bothered with rats. It means something to be able to make such a statement. A year ago the farm was overrun with the pests and nothing was safe from them. They would get into the corn crib and gnaw off the corn and also into the wheat bin and litter it up. The chickens were not safe in their coops for the rats would in one night gnaw thru an inch board and kill the young chickens. We bought traps and tried to get rid of them that way and while many were caught we could not see that we diminished the population to any extent. We then got two good rat dogs and they caught a good many. Then one day some one we don't know who to thank for it, dumped a sackful of cats along the hedge near our house. They came into the yard hungry and we fed them milk, and they stayed and have been killing the rats. The six cats that finally stayed with us are now quite tame.

The number of sheep in many communities in Kansas is increasing. This is coming as a result of the work of such good sheep men as A. L. Stockwell of Larned, who have demonstrated that these animals are profitable under Kansas conditions.

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## Half of the Hens Were Drones

Culling Cut Down the Feed Bill and Increased the Profits

MRS. W. P. LATHAM

THE HEIGHT of my ambition, several years ago, was to have a flock of 300 hens on the farm. I kept a daily record of eggs and thought when my flock increased from 150 to 300 hens my egg record would double. Did it? I regret to say it did not.

I had a hen house 10 by 30 feet, well built, and with an open south front. The hens had free range, access to an abundance of feed and yet my egg record was no better than from 150 hens. Knowing some hens did not lay regularly I set aside three days for a fair trial. During the three days I almost stayed at the hen house. The hens which went on the nest I caught and shut up in another building where they were supplied with nests, feed and water, and at the end of the three days I had the "workers" in one place, the "drones" in another. This was late in February when hens are a good price, and all that are any account usually are laying by then. Barring late pullets there is little danger of making any serious mistakes in culling at this time.

We caught all the big, fat beautiful drones and took them to town. My egg record was diminished only two eggs after selling 143 hens from my 300, which I had labored so hard to get. That was a shock but let me say in this case the purebred hens were far in the majority in those which went to town. My flock was about half purebred Rhode Island Reds and half mixed Rhode Island Reds, and those which showed odd feathers were far in the lead. This may bring a storm of protest from those who have stock and eggs to sell but considering I paid 15 cents for day old chickens, and always bought good roosters to head my flock I think my experience may be given as unprejudiced. I always admired purebreds and do yet, but good common stock kept in clean, dry quarters should be profitable.

A box with dry bran, cottonseed meal and a little lime mixed and always before your hens, with the regular grain, green stuff and meat scraps, will insure a supply of eggs. Whatever you do, don't overcrowd. If you can get rabbits to hang up where the hens can pick them they take the place of insects in summer. Potato peelings, cabbage leaves, apple cores and table scraps all help.

### Here is a Duck Enthusiast

I believe the day will come when Indian Runner ducks will take the place of hens. They do not require expensive houses and fences. A 2 foot fence will confine them, and they stand confinement better than hens. When you start in the Runner duck business be sure to get purebreds for the country is now flooded with scrubs of all kinds which are called Indian Runner ducks. Study how to feed and they will repay you for all you give them. I raised 200 last season from 8 ducks and 2 drakes, and sold 800 eggs. The good qualities of the Runner ducks are many. They are not subject to poultry diseases; are not bothered with roup, lice or mites, and never scratch out your flowers and garden; are non-setters and lay winter and summer. Their eggs are not strong like other duck eggs. The eggs hatch well in incubators. Mrs. Wm. J. Winslow, Hesston, Kan.

### Guineas are Healthy Fowls

Our experience with guineas has proved that they are a healthy barnyard fowl. They are immune from such diseases as roup, cholera, and rheumatism to which chickens, turkeys and ducks are subject. There is no danger that a guinea will overeat as there is with a goose. They require very little care as they need no feed from May to November. They roam the fields destroying bugs and worms that are the farmer's enemies.

A common mistake made by many persons is the mating of guineas. Never allow more than two females to one male, a male will not mate with more than two hens. They must be watched when they make their first nests in the spring as two and sometimes three hens nest together. After they lay about 35 eggs rob the nest and each hen generally will make a new nest for herself. They will

lay from 20 to 30 eggs each on their new nests before brooding. That is more than one hen can hover, so it is a good plan to leave about 20 eggs in the nest and set the rest under a chicken hen when the guinea hen begins to set. They will hatch at the same time and you should give the young guineas to the guinea hen.

The incubation of a guinea egg is 25 days instead of 28 as many believe. Young guineas can be raised with a chicken hen if you put them with one that will range away from the house and travel slowly. The only thing we ever have found that the young guinea will eat is the prepared chick feeds put out by mills. They will not eat rolled oats, kafir, chop nor milk curds. We prefer to let the mother guinea raise her young in the fields. It is useless to try to feed them as they are too wild. They must have access to water as the old ones will not bring their young to the house.

We prefer the flavor of their meat to turkey, chicken or duck when properly prepared. Our flock last year consisted of 9 females and 6 males. This fall when cool weather arrived they came home to roost. When the 9 hens were here there were 100 young in the flock. The only complaint we have in raising guineas is that there is little demand for them in our locality. W. I. Thomas, R. 5, Walnut, Kan.

### Chickens Instead of Pork

Last spring I bought 250 late chicks and 8 hens, which cost me \$13. The chicks were 1 week old when we bought them. How many of them we raised I cannot say as we had two sows that got more than their share of them. In the fall when pork was high we killed a chicken every other day for about three months. About the first of November I sold 4 dozen young roosters, which brought \$22.55. We still have about 60 pullets left.

The feed bill did not amount to very much as we quit feeding them when they were 2 months old. I had some hogs that I fed ground wheat, and the chickens got the grain which otherwise would have gone to waste. I ground some corn and kafir, mixed about half and half, and fed them about 1 gallon of this every morning. They began to lay in a short time and we got two and three eggs a day.

I keep plenty of clean water, and crushed oyster shell before them all the time and have plenty of straw in and about the hen house. I have been getting eggs every day from the time I began feeding a mash of ground corn and kafir. F. F. Lawrenz, Isabel, Kan.

### This is Just About Dark Cornish

I often am asked why I breed the Dark Cornish. It has been my pleasure to raise many breeds but I find the Dark Cornish the best all-around chicken and the most profitable. They have beautiful plumage of glossy green black intermingled with bay and mahogany. The Cornish are the delight of the fanciers. They are a splendid utility fowl. As layers they are as good as any of the large breeds, in fact are better layers in the fall and early winter when eggs are scarce and high priced. They weigh nearly as much as the Rocks but appear much smaller as their feathers are short and lie close. On account of their short feathers they are not troubled with vermin as much as the fluffy feathered chickens.

The Cornish are excellent table fowls. The young are hardy and soon grow large enough for good fries. They are great foragers and rustlers and seldom get sick.

The Dark Cornish is the bird you want to raise for more chicks, more eggs, more meat, fine feathers, more activity, less vermin, less feed, and less trouble than any other breed in existence. Mrs. Fred Sieglinger, Lone Wolf, Okla.

Mother—"If you fell in the water, why are your clothes dry?"

Tommy—"I took 'em off in case of accident."—The Sun.



H. H. Johnson  
"The Incubator Man"

**Handy Thermometer Holder**  
Thermometer comes into view every time you open the door. Saves time and stooping.

**Big Oil Drawer**  
Instantly removed but can be filled without moving. Holds enough to require refilling only once or twice. Oil tank is not braced by legs or to brace legs, hence no leakage.

## These New Work Savers Make Big Hatches Easier Than Ever With

# Old Trusty

EASIER hatches, but not bigger hatches, because no feature could improve Old Trusty's present record for higher average hatches year in and year out, even in coldest winter weather. I call these new conveniences work savers.



This 120-Egg Size Old Trusty Only

**\$9.60**  
Freight paid to any point east of the Rockies. A trifle more to points farther west. This is not a new, untried machine. It is real Old Trusty, which outside of the metal covered Old Trusty, never had an equal for quality. Has the same pure copper tank, regulator, redwood case, egg trays, etc. Shipped ready for business. Not knocked down except for legs which are removed for convenience in shipping. Write for catalog.

And they are big work savers, too. Here's added value in Old Trusty Incubator—already the leader of the world in high quality at low price. 700,000 satisfied users. But what I want you to know about is my



M. M. Johnson  
Inventor of Old Trusty

## MONEY-SAVING Sensation of 1917

Note the illustration to the left. This is your chance of a lifetime to save money on a real top notch quality hatchery. Write quick and let me tell you all about it. These redwood covered machines are going like hot cakes. Mind you—this is not a makeshift, but real Old Trusty through and through. It's our famous 1908 model of Old Trusty without the metal cover. Thousands of these 1908 machines are still in use, and outside of our metal covered Old Trusty, they never had an equal in quality. Write for catalog and take your choice of two models.

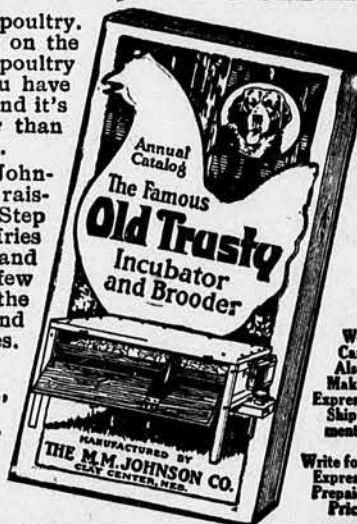
## Get This Poultry Book—FREE

This is a big year of opportunity with poultry. Think of the prices you pay for things on the table! Who couldn't make money with poultry this year? Here's YOUR chance. You have the opportunity—I've got the machine, and it's a better machine and at a lower price than we have ever been able to offer before.

Write for Our Catalog and get the Johnson "Know How" on profitable poultry raising. Now is the time to get started. Step into chicken profits this year. Have fries and broilers to sell in early summer and laying pullets next fall and winter. A few early hatches in Old Trusty will do the trick. Write today—get our book and money-saving offer on 1917 machines. Use a postal if more convenient.

H. H. JOHNSON,  
"The Incubator Man"

**THE M. M. JOHNSON COMPANY**  
Clay Center • Nebraska



## Lice-Proof Nests



**130 Egg Incubator and Brooder \$10**  
If Ordered Together. Freight paid. Best of Rockies. Hot water copper tanks, double glass doors, all set up complete, or 180 Egg Incubator and Brooder \$12.75. FREE Catalogue describing them. Send for it TODAY or order direct. (2) Wisconsin Incubator Co., Box 143 Racine, Wis.

## Write Today

While they last, these Mankato incubators are going at the old price. When our material on hand is gone, up goes the price. Prices everywhere are popping, due to raise in cost of material.

## The Mankato

Now is the time to order yours. Save money—make big profit this winter. Double heating system, hot water and hot air—pure copper tank. Write today. MANKATO INCUBATOR CO., Box 712, Mankato, Minn.

Get It At the Old Price

## Chicken Money

1917 is going to be the biggest year known for poultry raisers. Start right—Get the Cyphers Book—A mine of information which shows the way. Write for free copy. Cyphers Incubator Co., Dept. 92, Buffalo, N. Y.





**Wins in the Two BIGGEST HATCHING Contests Ever Held**

**Why take chances with untried machines when for only \$11 we guarantee to deliver safely, all freight charges paid (East of Rockies), BOTH of these big prize winning machines fully equipped, set up ready for use?**

Why not own an **IRONCLAD**—the incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered including practically every make, style and price. With the Ironclad—the same machine we offer with Brooder freight, paid for only \$11, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in the last contest.

**30 Days Free Trial**  
Money Back if not Satisfied

**Both for \$11**  
Freight Paid East of Rockies

**MADE OF CALIFORNIA REDWOOD**  
150 Chick Brooder

**150 EGG**  
Ironclads are not covered with cheap, thin metal and painted like some do, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't class this galvanized iron covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tyco's Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write TODAY or order direct from this advertisement.

**IRONCLAD INCUBATOR COMPANY, Box 107, Racine, Wis.**

**WANTED MEN**  
\$75. to \$200 a month!

The demand for capable automobile men exceeds the supply. Our graduates are always in demand to fill good positions as Salesmen, Demonstrators, Factory Testers, Garage Managers, Repair Men, Ignition Experts and Drivers.

**\$50 COURSE FREE**  
Six weeks from the day you enter this great school you will be able to repair any make of automobile or drive any car on the market. All who enroll now receive \$50 course in Lighting and Tractor Engineering. Free. Write today for our big Free Book and the \$50.00 Free Scholarship Certificate.

**AUTOMOBILE TRAINING SCHOOL**  
Largest Auto School in the World  
1088 Locust St., Kansas City, Mo.

**ABSORBINE**  
TRADE MARK REG. U.S. PAT. OFF.

Will reduce Inflamed, Strained, Swollen Tendons, Ligaments, or Muscles. Stops the lameness and pain from a Splint, Side Bone or Bone Spavin. No blister, no hair gone and horse can be used. \$2 a bottle at druggists or delivered. Describe your case for special instructions and interesting horse Book 2 M Free.

**ABSORBINE, JR.**, the antiseptic liniment for mankind, reduces Strained, Torn Ligaments, Swollen Glands, Veins or Muscles; Heals Cuts, Sores, Ulcers. Allays pain. Price \$1.00 a bottle at dealers or delivered. Book "Evidence" free. W. F. YOUNG, P.D.F., 209 Temple St., Springfield, Mass.

**MONTANA NORTH DAKOTA**

**OPPORTUNITY LAND**

Others are making good in Montana and North Dakota and so can you. Montana leads the world in development of farm lands—in quality of grain produced. There is still opportunity to homestead or purchase deeded land at very low prices in this great new golden Montana country. Send for Montana Bulletin today, fully illustrated and with complete information. Up in North Dakota prosperity reigns supreme. Diversified farming is proving a huge success in this great land of the world. And your share of this land awaits you for a small investment.

**Let Me Mail You FREE Bulletins**  
containing full information about Montana and North Dakota opportunities. I will gladly help you make a choice and advise you honestly about best values on the line of the Great Northern Railway. Write for bulletins and advice today. Address:

**E. C. LEEDY, Gen'l Immigration Agt.**  
Dept. 181, Great Northern Railway, St. Paul

## My Best Offer in 22 Years

**Write Today**  
for this offer which gives you the oldest and best known incubator at a rock bottom price. Get my guarantee which insures you a sure success and big profits this year with

**"Successful" Incubators and Brooders**

Backed by 22 years of successes—and the strongest guarantee ever written. Twenty big points for success. Write today for catalog.

**Poultry Lessons FREE**  
to every buyer of a "Successful" Incubator or Brooder. A complete course—well worth \$25—insures success—tells how to save on feed—get top-notch prices, etc.

**Feed Sprouted Grain—Get More Eggs—with "Successful" Grain Sprouters—built in all-steel sections—fireproof. Changes 1 bushel into 3 bushels fresh, green egg-making feed. Makes hens lay in winter. Send for free descriptive circular and low prices.**

**Write for Catalog of "Successful" Incubators and Brooders.** Enclose 10c if you also want "Proper Care and Feeding of Chicks, Ducks and Turkeys." Incubator catalog is FREE—Write today.

**J. S. GILCREST, President**  
**DES MOINES INCUBATOR CO. 34624st., Des Moines, Ia.**

## FARM MACHINERY SOLD AT FACTORY PRICES

**New Way Listing Harrow**

3-Section .....	\$12.00
5-Section .....	20.00
20 Century Cultivators, 6-shovel Pin Break .....	\$23.50
Three Time Cultivators, 4 Discs, 8 Shovels .....	\$45.00
Two Row Wheel Disc Cultivators .....	\$34.50
Two Row Riding Listers .....	\$74.50
Tongueless Cultivators, Wood Beam .....	\$10.00

Wagon Boxes, 26 inch \$12.50  
Wagons, 34 inch Gear Brake \$74.50

Above prices F. O. B. St. Joseph, Mo. good for only 10 days, after that 25% will be added. Mail your order today.

**FARMERS IMPLEMENT & SUPPLY CO.**  
St. Joseph, Mo.

## Dry-Farming For Kansas

### Deep Plowing Is of Great Importance In Conserving the Moisture Supply, and Crops Must Have This Water

IN early days in the West the man, who filed on a homestead and went to farming without irrigation facilities, was considered something of a lunatic. He was called a "dry prairie farmer," a "dry lander," and later a "dry farmer," as opposed to the wet or humid farmers who raised their crops in the East with abundance of rain, or in the West with irrigation.

There are dry-farmers and dry-farmers—those who skim the surface, scratch the soil a few inches deep, and live from hand to mouth, and those who plow deeply, cultivate often, raise crops, and are often well-to-do.

With the experience of the old pioneer dry-farmers who have made good, as a foundation, of hundreds of professors and agriculturists who are specializing in this line, the West is rapidly evolving a new agriculture, the principle of which is first to conserve your moisture and then raise a crop on it; briefly stated—accumulation—conservation.

#### Deep Plowing.

Accumulation is accomplished by deep plowing; by summer and winter fallowing, also by cultivating and disking in such manner that waste by runoff is almost impossible. Then precipitation comes suddenly and in quantity; deep plowing catches and holds it until it can be absorbed into the subsoil. The summer fallow, which means plowing in the spring for fall crops, and the winter fallow, plowing in the fall for spring crops, are the chief aids, where precipitation is scarce, in accumulating enough moisture to insure a profitable yield.

Cultivation is performed with an eye to accumulating moisture as well as conserving it. Therefore, the soil is left fairly rough, according to E. R. Parsons in Farm Engineering, never as a dust mulch which obstructs absorption, and the cultivator rows always run across the slope rather than up and down with it. The disk is used much on the summer fallow to keep the weeds out. The field is disked and cross-disked without lapping, which leaves squares the width of this implement, hollow in the middle and high at the sides, which will hold an inch of rain until it soaks into the subsoil, even if it comes in twenty minutes.

Conservation of moisture is effected by keeping every crop and every vacant field or fallow continually mulched by the use of the proper implements made for that purpose. This is not such an arduous task as one at first sight might suppose. A crop, once mulched, stays mulched until a rain comes to pack it and form a crust. And the rains in the dry country are often few and far between. The farmer who follows the old style of agriculture, plowing a few inches only, seldom conserves enough moisture for a full crop except in very favorable seasons.

The use of the summer fallow for winter wheat or rye necessitates the alternate method of raising a crop every other year. The land, being disked as soon as the crop is off and plowed the following spring, is always in a receptive condition as regards moisture, and has nearly a year to accumulate it. Therefore, it is no uncommon thing for nine or ten inches of water to be conserved in the winter wheat field before the crop is ever planted. Ten inches of water will usually wet the ground down to a depth of four or more feet according to the soil. A rich alluvial soil sometimes holds three inches to the foot, a poor one less.

#### Here's the Secret.

The key to successful dry-farming is depth—deep plowing, a deep reservoir and roots all the way through it.

It has always been recognized in ordinary or humid farming that the seed bed makes the crop, but in dry farming the subsoil has more to do with it. A condition hitherto unsuspected in soil physics has been brought to light by dry-farming operations. And that is, that ordinary soils will hold as high as fifteen and even seventeen per cent of water, according to their quality, against capillarity and gravity, which prevents our store of moisture from passing down into the dry subsoil below the wet layer which contains the moisture, for the true

dry farms of the West are underlaid with hundreds of feet of air-dry subsoil.

For these reasons it is discovered in practice, and demonstrated by experiment that water conserved at eighteen inches or two feet underground will stay where it is put until the roots of crops use it up with practically no loss by evaporation even where the seed bed is slowly drying out. It is this fact which makes dry-farming possible.

Wherever there is an unusual average precipitation of fifteen or sixteen inches, it is evident that seven or eight inches will fall, in the usual course of events, on land which lies fallow for five or six months. But in spite of anything the farmer can do he may lose by evaporation about three inches out of eight. Therefore, he will in all probability by the use of winter fallow conserve five inches in his subsoil. Then with the average precipitation during the growing season of an inch or an inch and a half a month (for this season is usually the wettest part of the year,) the crop will receive altogether from nine to ten inches, quite sufficient for a profitable yield.

#### Going Far Down.

In order to meet the demand for plows which will do the work, the implement makers are rising to the occasion, and our up-to-date dry-farmers are using a plow which will tear up the soil to almost any depth short of 20 inches. This is the kind of plowing that gives the roots of the crops a magnificent start, and in a little while they work their way down into the damp root bed at eighteen inches or two feet, where the bulk of the moisture is which is sufficient to support them for several months without rain.

It should be noted that in this branch of agriculture the seed bed not only mothers the young plants, but acts as a mulch to the root bed (the subsoil) where the moisture is principally conserved. It is frequently the case in dry years that a crop is made from the subsoil in which the roots are often found from four to eight feet deep, even when the moisture in the seed bed is almost dried out. On the other hand, where shallow plowing is indulged in, sufficient moisture may not be conserved to render the subsoil moist and permeable to crops. Under such conditions the roots do not penetrate it, and the crop which is made from the seed bed amounts to little or nothing.

Depth is found to be so important in dry-farming that many have abandoned the old style of shallow breaking and packing sod in favor of creating a highly efficient seed bed by deep plowing and disintegration. The sod is first cut all to pieces on the surface by the use of sharp disk harrows applied in wet weather. It is then plowed under eight, nine or over ten inches deep and disked on the underside which is then uppermost. Alternate harrowing and disking completes the job. A field prepared in this manner and fallowed for a time to collect moisture is good for a highly profitable crop the first year of planting.

A most important factor in dry-farming is the spacing. It is quite clear that more precipitation falls on a large area than on a small one. Therefore, the farther apart the plants the more room they have to gather moisture, and for this reason much less seed is used to the acre in dry-farming than in humid agriculture.

The same rule applies to the garden, shade trees and orchard. Apple trees are allowed a square of 40 feet, plums and cherries 20 feet, small fruits ten feet. With a precipitation of 15 inches the fall on a square of 40 feet (1,600 square surface feet) is about 61 tons for the year. If the farmer can conserve half or three-quarters of this amount, there is plenty for a 15 or 20-year-old apple tree. But if not, the proper proportion of transpiration to precipitation may be maintained by judicious pruning.

A larger gain with hogs must be produced on pasture. The high prices for grain have made care in feeding all the more necessary.

## Have You Poultry or Eggs for Sale?

If so, then you will be interested in the announcement that the February 3 issue of Farmers Mail and Breeze will be the 11th Annual Poultry Number. It will be as good—and perhaps better—than any of its predecessors—and that's saying a good deal.

#### New Poultry Rates

Single insertion ..... 6 cents per word  
Four insertions or more ..... 5 cents per word each time

You can't afford to pass up this issue. Send in your advertisement today, before you overlook it.

Forms close January 29—the 30th will be too late.

Address Farmers Mail and Breeze, Topeka, Kansas.



## Farm Products in 1916

Some good crops were produced in Kansas in 1916 even if the season was not the most favorable. The wheat crop, 99,384,760 bushels, was the second largest ever produced. There were substantial increases in the numbers of all kinds of livestock, except horses and hogs, which are less by 7,232 and 230,895 head, respectively. Milk cows gained in numbers 115,786, other cattle 281,092, mules 19,512, and sheep 43,399. The crops in Kansas in 1916, according to the state board of agriculture, were:

Wheat.....	99,384,760 bus.
Corn.....	62,127,191 bus.
Oats.....	29,177,688 bus.
Rye.....	737,217 bus.
Barley.....	6,049,777 bus.
Emmer.....	32,235 bus.
Buckwheat.....	1,741 bus.
Potatoes.....	4,653,819 bus.
Cowpeas.....	3,444 tons
Flax.....	133,182 bus.
Broomcorn.....	9,591,530 lbs.
Millet.....	143,029 tons
Sugar beets.....	58,632 tons
Sorghum for sirup.....	394,400 gals.
Kafir.....	5,095,052 bus.
Milo.....	1,138,482 bus.
Feterita.....	650,968 bus.
Sorghum hay, forage and stover.....	3,088,005 tons
Saccharine sorghum for seed.....	297,648 bus.
Jerusalem corn.....	3,255 tons
Sudan grass.....	57,323 tons
Alfalfa.....	3,581,201 tons
Tame hay.....	437,608 tons
Prairie hay.....	1,211,355 tons
Wool clip.....	308,794 lbs.
Cheese.....	36,430 lbs.
Butter.....	45,031,457 lbs.
Condensed milk.....	8,344,570 lbs.
Honey and beeswax.....	559,926 lbs.

## Number of Livestock.

Horses.....	1,056,124
Mules and asses.....	296,007
Milk cows.....	1,077,067
Other cattle.....	2,200,848
Sheep.....	181,481
Swine.....	6,539,468

## The Kansas City Tractor Show

Much interest is developing in the coming Second Annual Tractor Show which will be held the week of February 12 to 17, in Kansas City, the same week as the Automobile Show.

The Tractor Show will be on the Union Station Plaza as it was last year, but will be much larger. The tent will be 500 feet long, the great weight of the canvas being upheld on steel poles, a new feature. There will be a double wall of 10-ounce khaki, well paraffined, and the use of 45 salamander stoves will assure comfort regardless of the weather.

Inside the tractor show tent this season there will be a double floor. Virtually all contracts have been let for the space. There will be shown exhibits of 70 different models of tractors, in addition to power cultivators, all kinds of new power lift machinery, power lift plows, and special binder hitches. The tractor, which was the foundation of the wonderful "tanks" used in the European war, will be among the exhibits.

There will be shown tractor attachments for automobiles. A large number of new factories will make their debut as tractor makers, among them some automobile manufacturers of popular priced cars.

The presence of so much farm machinery in addition to the tractors themselves, will make this show of special interest to implement dealers of this section of the Southwest.

## Evergreens are Hardy

Evergreens are among the hardiest trees for Kansas planting, C. A. Scott, Kansas state forester, says. That they can be grown successfully in Kansas, is indicated by the seedbeds in the forestry department of the agricultural college. "Spring planting is best for Kansas conditions," said Professor Scott. "The plants appear in from eight to 12 days after the seed is planted. The seedlings are grown in seedbeds from one to two years, depending on the species. They are then transplanted to nursery rows, from 3 to 3½ feet apart. The plants are set every 6 inches in the row.

"Evergreens for Kansas are the best for protection planting. The desirable species are Red Cedar, Chinese arbor vitae, Austrian and Western Yellow pines, Norway White pines and Colorado Blue spruce."

The Bachelor—"So you are married, eh?"

The Benedict—"Yes; been married for nearly six months."

The Bachelor—"Got your wife pretty well trained by this time, I suppose?"

The Benedict—"That's what. I've got so I can make her do anything she wants to."—Indianapolis Star.

## JOHN DEERE IMPLEMENTS



## BOOK FREE

156 page reference book—tells all about a complete line of farm implements and how to adjust and use many of them. A practical encyclopedia of farm implements. Worth dollars.

Describes and illustrates Plows for Tractors; Walking and Riding Plows; Disc Plows; Cultivators; Spring Tooth and Spike Tooth Harrows; Disc Harrows; Alfalfa and Beet Tools; Farm and Mountain

Wagons; Manure Spreaders; Inside Cup and Portable Grain Elevators; Corn Shellers; Hay Loaders; Stackers; Rakes; Mowers and Side Delivery Rakes; Hay Presses; Kaffir Headers; Grain Drills; Seeders; Grain and Corn Binders.

This book will be sent free to everyone stating what implements he is interested in and asking for Package No. X-12.

JOHN DEERE, MOLINE, ILL.

## John Deere Plows for Light Tractors



**High and Level Lift.** Two, three and four bottoms. High and level lift means level plows out of the ground, no cutting of ridges when crossing or turning on plowed ground.

**Steady running** furrow wheel—does not drag or bind against furrow wall. **Stiff hitch**—plow can be backed. John Deere bottoms, the standard for over 78 years. There is a John Deere bottom for every kind of soil.

**Equipped with John Deere Quick Detachable Shares**—great labor and time savers.

So far as quality of John Deere Plows for Light Tractors is concerned they are built for the farmer who realizes that it is business judgment to buy a high-grade tractor plow. Don't forget that a tractor plow is not an everyday purchase. John Deere Plows for Light Tractors are noted for their high-grade work in the field—the real test of tractor plow value.

Before you make your purchase, be sure to see John Deere Plows for Light Tractors. A careful purchase means permanent saving.



## John Deere Combined Cotton and Corn Planters



Cotton seed cannot choke up in the hopper—a cotton picker wheel prevents it.

John Deere **OB-LIQUE SELECTION, HORIZONTAL CELL DELIVERY SEED PLATE** for corn—an accurate drop.

Positive gear drive with dirt-proof gear case.

Special shaped shovel with reversible points opens furrow and pulverizes the soil without throwing it up on the face of the shovel. Soil falls behind and covers the seed.

Adjustable press wheel can be furnished. No lever used on this press wheel.

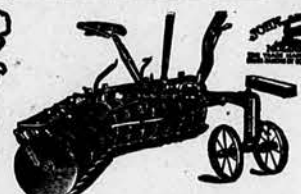
Depth of planting can be regulated with the foot while planter is in motion.

tested out through years of satisfactory field use. A cotton picker wheel extends through the bottom of the hopper. This wheel revolves in one direction and the cotton spider in the other—separating the seed without damaging it. Change in quantity is made by turning a thumb nut on the hopper.

Hoppers are beaded. Seed plates fit perfectly. All the seed in the hopper is planted. Peanut plates or a special hopper can be furnished for planting shelled or unshelled peanuts.



## John Deere Model "B" Disc Harrow



The Model "B" pulverizes at even depth its entire width. Patented spring pressure third lever—inner ends of gangs can be given light or heavy pressure to disc over ridges or cut out dead furrows without burying the harrow.

**Independent gangs.** All tendency of gangs to crowd to one side is easily overcome by giving them the proper relative angle.

**Flexible**—only that part of the Model "B" harrow passing over an obstruction is lifted out of the ground.

Rear section can be furnished to make a double action harrow.

Using a disc harrow before plowing pulverizes surface lumps; works trash into the seed bed and prevents the escape of moisture. Then when the furrow slice is turned, the trash decays rapidly and no large air spaces are left between bottom of furrow and the turned furrow slice. Water in the sub-soil can make its way into the seed bed and plant roots can penetrate to deeper soils.

Discing after plowing removes the weeds, and makes the seed bed compact, but not hard. The discs break up lumps of soil.



## John Deere Plows



The John Deere General Purpose Plow is especially adapted for farmers who rotate their crops or practice diversified farming and have tame sod as well as stubble or old ground to plow.

Moldboard has a long, slow turn which pulverizes the soil to best advantage.

In sod, it does not break up the furrow slice but laps the furrow sufficiently to bury green vegetation in loose soil, preventing further growth and hastening decay.

John Deere Plows are made in styles to meet all conditions, no matter what they are.

Look for the name "John Deere" when you buy.

For seventy-nine years the John Deere organization has specialized in making high-grade plows. John Deere Plows are noted the world over for their high quality material, workmanship and their ability to do the best kind of work.

The policy of turning out the best has paid the John Deere Company. The John Deere factory makes more steel plows than any other organization in the world.

The name "John Deere" on a plow is an assurance of highest quality material and satisfactory service. It means real plow value.



## John Deere Spreader

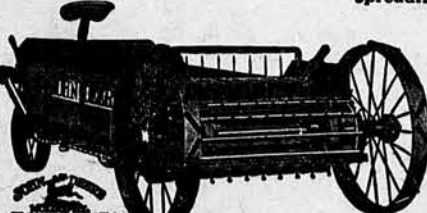
The Spreader with the Beater on the Axle

**Mounting the beater on the axle simplified the construction, eliminated troublesome parts and made possible a successful low-down spreader with big drive wheels. There are no shafts to get out of line, no chains to cause trouble, and no clutches to adjust. The only spreader with beater and beater drive mounted on axle.**



Low down, with big drive wheels out of the way. Easy to load. Revolving rake, driven by manure moving toward the beater—no bunching of manure. Ball bearing eccentric apron drive—a new and exclusive driving device. Makes uniform spreading certain.

Wide spread attachment for spreading seven feet wide can be furnished for the John Deere Spreader. No chains nor gears. Quickly re-moved.



## Your Home Town Dealer

There is a big advantage in buying implements of your home-town dealer.

He gladly "backs up" the implements he sells, and he is on the ground to see that they make good. He makes his home in your locality—the place his goods are sold.

He handles a line of high-grade implements—and you can see before you buy. In the busy season, when work is pressing, he can furnish repairs promptly for the goods he sells.

If, by chance, he has n't in stock just exactly the style of implement you want, he can give you quick service in getting it to you.

John Deere factory warehouses with immense storage rooms have been established in various sections of the country. Every John Deere dealer is conveniently located to one of these houses.

This, really, gives you two supplies of implements—the stock carried by your home-town dealer and that of the factory warehouse.

JOHN DEERE, MOLINE, ILLINOIS



## BUILT FOR SERVICE!

The New Galloway Sanitary Cream Separator is as good in the parts you cannot see as in the ones you can see. Built for service—not merely to sell. You do not actually buy it until after you try it. If you find it is not as good as we say it is, send it back after trying it for 90 days—180 milkings! Get the last cent of profit out of your feed by skimming with a New Galloway Sanitary! Be one of that big army of farmers and dairymen who have found this separator the best definition of real dairy economy and profit.

### SEPARATOR PERFECTION AT LAST!

That's it exactly—at last! The New Galloway Sanitary Separator was not built in a day—nor a year! Expert designers and engineers worked on it for three years after we were sure it was right, and they are still at it. If any part can be simplified they'll find a way to do it. If the manufacturing cost can be reduced our efficiency experts will reduce it and you'll get the benefit not only in high quality, but in good service and low price. This machine has stood every imaginable test and never finished. It combines in the simplest, most practical and most effective way the best of the old and the best of the new ideas in separator building.

### LOOK AT THIS BOWL!

Nothing freakish about it, just the plainest kind of cream separator common sense. All parts as nearly smooth as they can be made. No sharp corners or raw edges to break up the globules of butter fat. Separating discs entirely separate from each other. Every drop of milk subjected to the full skimming force of the bowl. Milk so distributed in this bowl that every disc gets its share to skim, no more, no less. No flooding in the bowl, no conflicting currents in the bottom. That is the big reason why so few discs skim so much milk. Skimming capacity not guessed at, but guaranteed, and not overrated to make the price seem lower! Its low skimming speed is only one of its many valuable and exclusive features. These and many other equally important features make the New Galloway Sanitary Separator the choice of wise and discriminating farmers and dairymen, who want the best and will be satisfied with nothing less.

### GET THIS BOOK NOW!

It is chock full of dairy wisdom. A meaty, exact, concise, truthful book about cream separators, and how they are built. It tells why by selling direct I can make a machine, as good or better than many high priced separators sold through other systems, for less money saving you from a third to a half of the prices usually paid. It tells the whole story. It tells the facts. That's why I want you to get it. Ask for it today and we'll send it to you by return mail without any obligation on your part. A postal gets it. Please mention separators when writing.

WM. GALLOWAY, Pres., WM. GALLOWAY CO.

43 Galloway Sta.

Cream Separator  
Mfg. Specialists

Waterloo, Iowa



## Raise Your Own Dairy Cows

The Best Milk and Butterfat Producers Receive Careful Attention From Birth to Maturity

PROBABLY the best way for the dairyman to maintain and build up his herd is to raise his heifer calves. If his foundation cows are good producers and if he uses a tested sire he can be reasonably sure that the heifer calves will be good producers. With the advance in prices of land and farm products, the expense of raising the calves is increasing. When the young were allowed to suckle their dams no such conditions existed, but this practice is no longer economical.

L. W. Wing, Jr., of the Missouri College of Agriculture, outlined two general plans for reducing the cost of producing calves, in a lecture during Farmers' Week at the University of Missouri this year. He suggested that where cream is sold the calves be fed whole milk for the first two or three weeks and then gradually changed to skimmilk. The whole milk should not be fed in excess of 3 quarts at a feed twice a day. A small calf, such as a Jersey, does not need more than 2 quarts at a feed. When larger amounts are given scours may result. After the calf has been changed to skimmilk the amount may be increased gradually to 14 or 16 pints a day. Such feeding should be supplemented with grain, preferably ground corn or a mixture of 3 parts of corn and 1 part of oats by weight. Calves should be allowed to nibble hay as soon as they begin to eat grain. Timothy or mixed hay should be fed during the first two or three months, then some alfalfa, clover, or cowpea hay, may be given.

Farmers who sell whole milk have another problem. Experience has taught that the only method of replenishing a herd and advancing production is to raise the heifer calves. The plan in general use at present is to feed a minimum amount of milk with grain, or to give the calf a good start and take the milk away after about two months, and then put the calf on a grain ration.

Many attempts have been made to find milk substitutes. Oil meal, blood flour, and wheat middlings or flour have made up the major portion of most of them. Those which have proved most successful have contained a small portion of powdered skimmilk. When they are fed, whole milk is given for about the first month and the calves are gradually changed to the calf meal. This is fed as a gruel which has been heated to 145 degrees for ½ hour and cooled to about 90 degrees at feeding time. The amount fed depends upon the size of the calf, but should not be in excess of 1½ pounds a feed twice a day. One should have had experience in raising calves before trying this method. Such feeds enable a man selling milk at a high price at retail or wholesale to raise his calves more cheaply than he could by feeding fresh milk.

### Gerben Gives 8 Gallons a Day

Gerben Brookline Lass, 228415, has produced 33,782 pounds of butter in seven days. This cow is a Holstein, 3 years and 9 months old, owned by the Ed. H. Witte Farms, ½ mile south of Independence, Mo. The test was conducted under the observation of a representative of the University of Missouri. Gerben Brookline Lass produced 471 pounds of

milk on this seven day test, and it averaged 5.73 per cent fat.

Shortly before her calf was born she weighed 1,500 pounds. She is a cow of excellent type, top lines straight as a string, hide mellow and pliable as a glove; fine head, and an eye denoting intelligence and vigor. Her forehead is high, and the right width between the eyes. The udder has tremendous capacity and is well balanced and shapely. The milk veins are uncommonly well developed. Gerben Brookline Lass has delivered two calves, both heifers.

### This Meeting is for Dairymen

An excellent program has been announced for the annual meeting of the Kansas State Dairy association which will be held at the agricultural college February 7, at the time of Farm and Home week. The speakers will include F. B. Hills, publicity man for the American Guernsey Cattle club; and John B. Irwin of Minneapolis, who will give his experience in breeding Holsteins.

Dr. L. W. Goss, professor of pathology in the college, will speak on "Some Common Diseases of Dairy Cattle." Theodore Macklin, instructor in rural economics, will discuss "Profitable Methods of Marketing Butterfat."

Irwin is one of the best known breeders of Holstein cattle in the United States, and a director of the Holstein-Friesian association. He is owner of Duchess Skylark Ormsby, the dairy cow that produced 27,761 pounds of milk and 1,205 pounds of butterfat in a year.

A dairy butter, market milk, and creamery butter exhibit and contest will be held. Those desiring particulars should write to J. B. Fitch, Manhattan, for application blank in the division desired.

### A Dairy Herd of Sisters

J. E. Pit of Chautauqua county recently moved to Kansas from Oklahoma, where he has been in the dairy business. He brought his herd of grade Guernsey cows along. A remarkable thing about his herd is that it contains 28 daughters of one bull. Pit expects to keep these cows, and build up a herd of high-producing cattle.

### A Good Cow Must Eat a Great Deal

The well-fed cow will return more profit than the poorly fed one. A poorly fed cow often will be found to give no profit. At the Ohio experiment station, a cow increased her milk production 80 per cent thru better feeding. This increased quantity of milk cost 77 cents less a hundred pounds than what she produced on the small quantity of feed, and the butterfat cost 23 cents less a pound. This extra feed would not have been sufficient to feed another cow. By feeding the one cow well, about as much milk is secured as by feeding two cows poorly. And feeding the one cow well required less work, less barn room, less feed and less pasture. In many cases the quickest way to increase the profits from a herd is to feed and care for the cows better rather than by increasing the number.

# TRACTOR SHOW!

Second Annual Exhibit

Union Station Plaza

Kansas City, February 12th to 17th

Greatest display ever made. Seventy different models of Tractors; Tractor attachments for Automobiles, Power Cultivators, Power-Lift Plows, Special Binder Hitches and all kinds of new power-lift machinery. Beautiful decorations. Fine Orchestra. Show given under direction of the Kansas City Tractor Club.

SAME WEEK AS AUTOMOBILE SHOW

Come and Select Your Tractor During This Show.

**16<sup>95</sup> ON TRIAL**  
Upward  
**American**  
FULLY GUARANTEED  
CREAM  
**SEPARATOR**

A SOLID PROPOSITION to send new, well made, easy running, perfect skimming separator for \$16.95. Closely skims warm or cold milk. Makes heavy or light cream. Different from picture, which illustrates larger capacity machines. See our easy plan of Monthly Payments.

Bowl a sanitary marvel, easily cleaned. Whether dairy is large or small, write for free catalog and monthly payment plan.

Western orders filled from Western points.

AMERICAN SEPARATOR CO.  
Box 3092 Bainbridge, N. Y.

**LEARN TELEGRAPHY**  
Students earn board while learning. A practical school with railroad wires. Owned and operated by A. T. & S. F. Ry. EARN FROM \$55 to \$165 PER MONTH. Write for catalogue.

Santa Fe Telegraph School,  
Desk G, 506 Kansas Ave., Topeka, Kan.

**How to get 5 Gallons Free of Oil Free**  
Write  
**PROGRESSIVE OIL COMPANY,**  
TOPEKA, KANSAS

Says the Call

**Ask ME - I know**

The calf knows that when honey has a sore udder or teats the milk comes hard and the cow is restless and irritable. A cow that is nervous and uncomfortable cannot yield her full milk supply.

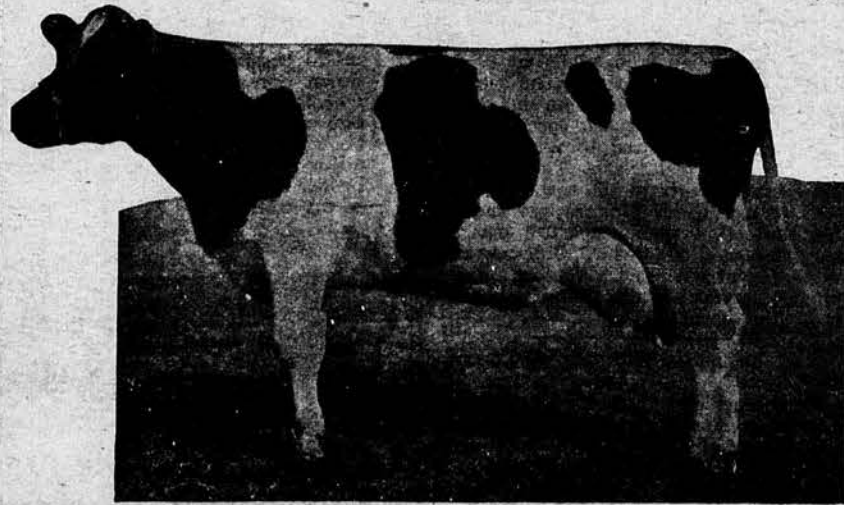
BAG Balm is a wonderfully effective, healing ointment, and quickly clears up scratches, cuts, chaps, bruises, inflammation, or caked bag. A valuable aid in treating bunches and stricture. Have a package on hand and keep little hurts from getting big.

Sold by feed dealers and druggists in generous 50c packages. Write for our free booklet, "Dairy Wrinkles."

DAIRY ASSOCIATION CO.  
Lyndonville, Vt.

**BAG BALM**  
MADE BY THE  
HOW-TURE PEOPLE

**Money To Loan on Farms**  
Low Rates. Quick Action. Agents Wanted.  
**FARMERS LOAN & TRUST COMPANY,**  
Tenth and Baltimore Ave., Kansas City, Mo.



Gerben Brookline Lass 228415. Owned by the Ed. H. Witte Farms, Independence, Mo., Produced 33,782 Pounds of Butter in a Seven Day Test.



### Feed for the Dairy Cow

Dairy cows should be fed as individuals and not as a herd. It is too often the practice to feed all the cows the same amount of grain regardless of the amount of milk they are producing. In such herds we find that heavy producing cows do not hold up in their milk flow for any length of time while the low producers take on fat. It is readily seen that such a practice is not economical on account of the decrease in milk and the waste of grain fattening the low producers. A cow will lose weight during the first few weeks of her lactation period, but there should be little change during the remainder of her milking period, except the gain in weight preparatory to calving again. As a general guide the following rules should be observed:

1. Feed all the roughness a cow will eat up clean and relish.
2. Feed 1 pound of grain daily for each 3 pounds of milk produced.
3. Feed all the cows will consume without gaining in weight.

These rules, however, are only general and the careful, observing feeder may find it necessary to make slight changes. Also the ration fed has much to do with the amount consumed and the results, so no study should be spared in formulating it.

A ration properly compounded should be above all things, palatable. Many ready mixed feeds on the market give better results than the feeds compounded by some dairymen. Altho such feeds seldom contain so high a quality of material as the dairyman would use in his own mixtures, still they are palatable on account of the addition of molasses. There are no ready mixed feeds on the market better than the farmer can make himself and none of them contain any remarkable properties not found in the familiar feed stuffs.

Such feeds as corn, bran and oats are palatable while cottonseed meal is an unpalatable feed. If a farmer wishes to use molasses for producing a more palatable home mixture, it is advisable to pour a small quantity of molasses over each cow's feed rather than to dilute the molasses several times with water, because too much water in such a dilution is likely to cause indigestion. Or he may buy the straight molasses alfalfa and add it directly to the mixture.

In addition to making a feed palatable it must contain variety and be properly balanced. Variety is produced by obtaining the feeds used in the mixture from different plants and not from one species of plant. A mixture of corn, meal, wheat bran, cottonseed meal and linseed meal would contain variety. However, feeds should not be changed too often for the sake of variety because frequent changes in a ration will decrease the milk flow. Sudden changes in a ration will have a similar effect. A good variety should be figured out and adhered to for some period of time.

A ration must also have plenty of bulk in order to satisfy the appetite without danger of overfeeding. Bran is a bulky or light feed while linseed meal and cottonseed meal are heavy feeds. When it is impossible to secure bulk, the grain mixture should be fed on the silage.

It must be kept in mind that cottonseed meal is a constipating food and must be fed with some laxative such as bran or linseed meal. Therefore, rations must be compounded which have the proper physical effect on the animals. Silage is a laxative; so are most of the leguminous hays. It must also be remembered that leguminous hays provide a percentage of protein that must be accounted for in the economical ration.

At the present high prices of concentrates many dairymen may think it the most economical to use what feeds they have on hand and not try to increase the protein content by the purchase of such meals as cottonseed, linseed, gluten and the like. This may be economy for the man with the low producing scrubs, but for the man with good high producing cows it is very poor economy. However, it will be necessary to "scalp" the "boarders" and use care and judgment in feeding. It will be more necessary than ever to consider the cost of protein. To do this sum divide the cost of the feed by the per cent of digestible protein in the feed.

C. E. Driver.

Women cooks employed in the British army are paid \$100 a year and their board.

The acreage of Sudan grass is increasing.

## Cheaper Power By Using Kerosene in OTTAWA ENGINES

GEO. E. LONG.

LET me ship you my Kerosene engine, using 8-cent kerosene—not 22-cent gasoline, to earn its own cost, in the saving on fuel the first year. My kerosene engine will not use one drop more fuel than any gasoline engine, when doing an equal amount of work. Send me your address, so I can send you my latest book, on easy starting Kerosene engines, and my new, liberal plan of selling.

### Direct From My Big Factory

or from warehouses in Ft. Worth, Denver, Omaha or Kansas City, whichever is nearest you. Ottawa engine shipments are made to suit you and save you money in freight.

### Cash or Easy Terms

By my money saving plan of selling, any honest man can make my engine earn its own cost while he uses it.

Here are my latest and lowest prices on engines:

2 H-P. \$34.95	6 H-P. \$96.90	Larger sizes, 12, 16, 22 H-P.
3 H-P. \$41.50	7 H-P. \$101.50	Saw-Rigs and Portables all
4 H-P. \$49.95	8 H-P. \$129.75	equally low in price.
5 H-P. \$74.95	10 H-P. \$144.50	

GEO. E. LONG,

President.

Ottawa Manufacturing Co., 559 King Street, Ottawa, Kansas.

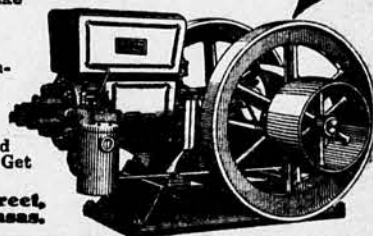
For a longer time than any other engine manufacturer, Ottawa engines have been sold direct to the user. You have your choice of Hit and Miss, or Throttling Governor; Make and Break, or Jump Spark Ignition, at no extra cost. Ottawa engines are built to suit you—not what is cheapest and easiest for me to make.

### 90 Days' Trial—5 Year Guarantee

You have 90 days (Three Whole Months) to try my engine at your own work. Test its horse-power, the amount of fuel it burns; try its easy starting and steady running. I shall expect you to return my engine, should it fail to make good my liberal guarantee.

### FREE BOOK

Before you arrange to try any engine send for my latest book on Kerosene and Gasoline engines—Why I use valves-in-the-head; four piston rings; offset cylinder; separate cylinder and base. My prices advance soon. Get in before the raise.



### They Wear Longer

That's why you save big money every time you insist upon having

**FITZ OVERALLS**

Made of pure indigo denim in 66 sizes—fit like tailor-made—wear like raw-hide. If your dealer runs short he can obtain your exact size within 24 hours from

BURNHAM-MUNGER-ROOT  
Kansas City, Missouri.



## PUBLIC SALE

I will sell at auction at my farm ¾ mile S.W. of the city limits of Winfield, Kansas, Thursday, Feb. 1

Eight head horses, 20 head cattle, 120 Duroc Jersey hogs.

Thirty head of pure bred Duroc brood sows from 1 to 3 years old. 20 of them were bred to my herd boar in December and January.

Thirty gilts from 3 to 6 months old. Twenty-eight boars including my herd boar, Graduate Colonel 2nd. Thirty-two pigs from 4 to 6 weeks old.

A word about my hogs. They are from the Good Enough Again King and Lady Loves families, bred to Crimson Wonder IV, and by my own herd boar Graduate Col. 2nd. He is the best boar in bone and length I ever owned. Not as tall as some, but has the length, depth and bone that much larger hogs have not. You who are breeders must confess that we must get back to the long body hogs to get size and weight.

D. O. WILSON, WINFIELD, KANSAS

Auctioneers: Jno. D. Snyder, L. W. Hoover.

Model C  
12-20 H.P.

\$1095

**Heider**

Model D  
9-16 H.P.

\$795

Made and Sold By Rock Island Plow Company

The Heider Friction Drive is the finest feature.—C. E. HUGHES.  
We drag 22 miles of road a day with our Heider.—ED. WILSON.  
My two boys 13 and 14 years old run my Heider.—C. W. RANDALL.

**Stacks of Letters Like This—**

**Looked at 40 Makes—Glad He Bought Heider**

Beaman, Iowa, Oct. 3, 1916.

My Heider has always given me the best of service. I use it for hauling corn, oats and hogs, plowing and operating ensilage cutter and corn sheller; also put out my oats crop with it. I pulled two 8-ft. discs and a 20-ft. harrow. I looked at 40 different makes and sizes of tractors before I bought mine. The Heider is the easiest of any to handle.

The friction drive does not slip any. The engine works just as well on kerosene as on gas. My machine has never cost me one cent except for fuel and oil.—C. O. MYERS.

## LESS GEARS

THE HEIDER has less gears than any other tractor. Less gears mean less trouble, easier operation and your repair expense cut to a minimum. It costs a good deal to replace broken gears. The 4-cylinder, heavy-duty, Waukesha motor is another guarantee against trouble. It is recognized everywhere as the best possible type of motor construction for a tractor.

## A Real One-Man All-Purpose Tractor

for the heavy work of plowing, seeding, harvesting, threshing and hauling. Pulls three 14-inch plows under average conditions, or four 14-inch plows where conditions are favorable. Does the belt work of every power machine you own or intend to own up to its rated power. Throttles down to just the fuel needed. Famous Heider Friction Drive proved by nine years

of success. Transmits most power and is easiest to handle. For proof read the letters of Heider owners which we will send you with new catalog. See how they save money and make money with their Heider Tractors, on small farms as well as large farms. Backed by our 62 years' manufacturing success and the reputation of Rock Island Implements in all parts of the world. Fill out coupon below or write us today and book will be promptly mailed.

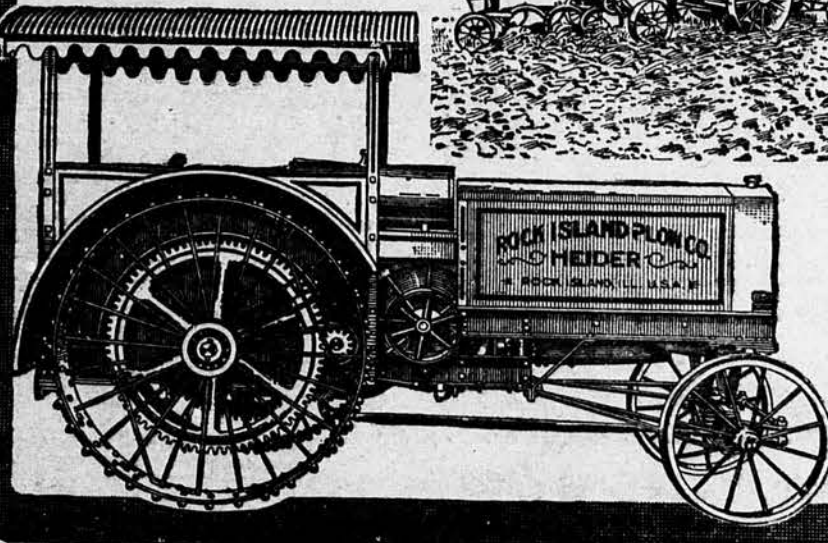
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234 Second Ave., Rock Island, Ill.

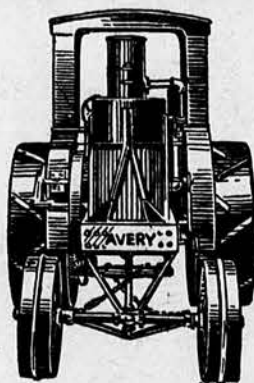
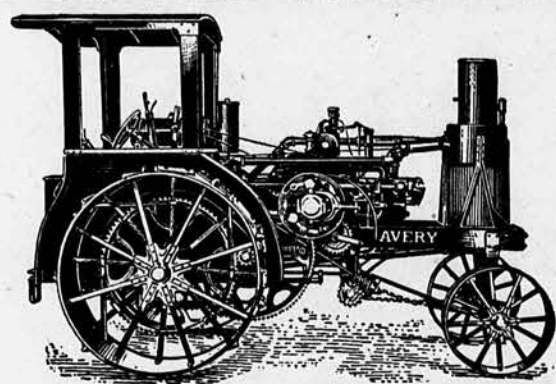
Send me your new Heider Tractor book.

Name \_\_\_\_\_

Address \_\_\_\_\_







## What You DON'T Get in an Avery Tractor

Your success with a tractor depends about as much on what you *don't* get in its construction as on what you do. Here are some of the things you *don't* get when you buy an Avery Tractor: You don't get fuel or water pumps to freeze or leak—you don't get a fan to cause trouble or waste power—you don't get sprocket chains or belts to stretch or break—no outside lubricator with small pipes to choke up—no counterweights on the crankshaft to come loose and tear the motor to pieces—no third bearing on the crankshaft to spring it out of line—and the fewest shafts, the fewest bearings and the fewest gears in the transmission of any 2-speed, double-drive tractor built. You don't have delays or expense with any of these parts when you get an Avery for these trouble makers were eliminated when the Avery Tractor was designed.

### WHAT YOU DO GET

You get a standardized design—a powerful, low-speed, long-lived, special opposed tractor motor—a crankshaft so strong no owner ever broke one—you get renewable inner cylinder walls, a wonderful and exclusive Avery feature—you get the Avery patented sliding frame, an all spur gear transmission, four wheels and a double drive. Avery Tractors are the only make built in five sizes (a size for every size farm) all having exactly the same design. When the Avery Company builds one size tractor and after thoroughly testing it out, builds four more sizes, all of exactly the same design, it is unquestionable proof of the success of that design.

### INSURE SERVICE AFTER YOU BUY

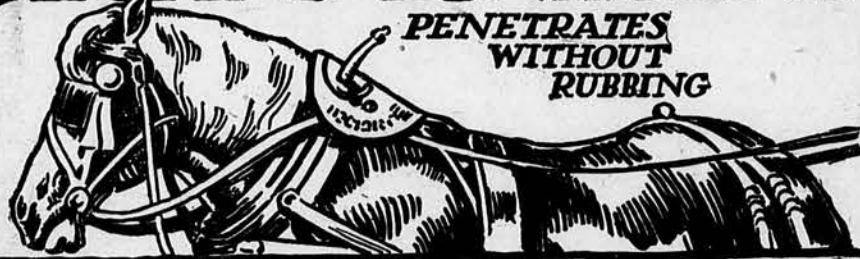
You must get repairs and expert help promptly if you need them. Avery Tractors are built by an established company with its own large factory and many branch houses at convenient points, where we carry complete repair stocks and maintain a force of trained service men.

**GET NEW 1917 CATALOG FREE**  
The new 1917 Avery Catalog contains valuable Tractor Farming and Threshing Information and all facts about the Bull Dog Line—five regular tractors, 8-10, 12-25, 15-35, 25-50 or 40-60 h.p.—special small 5-10 h.p. tractor—“Yellow Kid” and “Yellow Fellow” Threshers—and the new Avery Two-Row Motor Cultivator. Write for free copy and name of the nearest Avery dealer.

**Avery Company**  
1002 Iowa Street  
Peoria, Illinois

**Avery Tractors and Plows—Six Sizes—Fit Any Size Farm**

## SLOAN'S LINIMENT



A lame horse can't give full service. Relieve the bruised muscle, strained tendon or stiff joint with Sloan's Liniment, quickly penetrates. You will find many other farm uses for it. Thousands of farmers endorse this universal relief for pains and aches. At all dealers, 25c. 50c. \$1.00 a bottle. The \$1.00 bottle contains six times the 25c. size.

### Canada's Liberal Offer of Wheat Land to Settlers

is open to you—to every farmer or farmer's son who is anxious to establish for himself a happy home and prosperity. Canada's hearty invitation this year is more attractive than ever. Wheat is much higher but her fertile farm land just as cheap, and in the provinces of Manitoba, Saskatchewan and Alberta

160 Acre Homesteads Are Actually Free to Settlers and Other Land Sold at from \$15 to \$20 Per Acre. The great demand for Canadian Wheat will keep up the price. Where a farmer can get near \$2 for wheat and raise 20 to 45 bushels to the acre he is bound to make money—that's what you can expect in Western Canada. Wonderful yields also of Oats, Barley and Flax. Mixed Farming in Western Canada is fully as profitable an industry as grain raising.

The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools, churches, markets convenient, climate excellent. Military service is not compulsory in Canada but there is an unusual demand for farm labor to replace the many young men who have volunteered for the war. Write for literature and particulars as to reduced railway rates to Sup't. of Immigration, Ottawa, Can., or to

**GEO. A. COOK,**  
2012 Main St., Kansas City, Mo.  
Canadian Gov't Agt.

**160 ACRE FARMS IN WESTERN CANADA FREE**



### PAPEC



### How Full is Your Silo?

A silo usually settles about one-fourth after filling. Our plan will save you \$75 to \$150 yearly—the bigger your silo the greater the saving. Get a Papec Ensilage Cutter; fill and re-fill your own silo. Your engine—8 H. P. and up—will run it and fill any silo. The 1917 Papec Catalog fully explains how you can make your silo earn more. You should have this book. It's free. Write today.

**PAPEC MACHINE CO.**  
34 Main St., Shortsville, N. Y.  
86 Distributing Stations

### National Hollow Tile SILOS

LAST FOREVER

Cheap to install. Free from trouble.

**BUY NO BLOWING IN BLOWING DOWN FREEZING**

Write today for price and information about the size silo you expect to build.

Good territory open for live agents.

**NATIONAL TILE SILO CO.**

511 R. A. Long Bldg., Kansas City, Mo.

### "How To Feed Silage" FREE

The Silver Mfg. Co., Box 348 Salem, Ohio

Send for 36-page birdseye on handling silage—a chapter from "Modern Silage Methods," 1917 edition of this book 25c. 264 pages. Answers all silage or silo questions. Ohio Silo Filler Catalog FREE.

### Farm Chemicals at 1/2 Price

Buy your chemicals direct from us and save money. We sell the best grades of coppers, lime, sulphur, Paris green, and formaldehyde at prices which mean a saving to you. Be sure to write in today for our free price-list and booklet.

**SWAN MANUFACTURING CO.,**  
506 Kemper Bldg., Kansas City, Mo.

When writing to advertisers be sure to mention Farmers Mail and Breeze

### Gas Compared to Coal

Is natural gas more expensive than coal, when used to heat your house? Prof. H. C. Allen of the chemistry department in the University of Kansas has analyzed for the state public utilities commission samples of eight kinds of coal commonly used in Kansas, and has found that Cherokee coal at \$5 a ton is cheaper than gas if the gas is more than 18.61 cents a thousand feet. These tests, however, take into account only the actual heating value and do not consider cleanliness, the greater convenience of gas, nor the fact that gas, at a reasonably normal pressure, gives off a steady heat while the coal fire goes up and down with its burning out and replenishing, nor that the gas supply is not so dependable as a full coal-bin.

The coals used in these tests are fairly representative. The coal prices given are those prevailing at the time the samples were taken from a Lawrence coal yard several weeks ago. The gas was average Kansas natural gas. Illinois coal at \$6 a ton is cheaper than gas at a price more than 24.07 cents a thousand feet, Professor Allen's test showed. Arkansas semi-anthracite at \$7.50 has the same heating value in terms of dollars as gas at 26.35 cents a thousand feet, while briquettes at the same price are equal to gas at 28.51 cents a thousand feet. Arkansas anthracite at \$9 a ton is equivalent to gas at 32.95 cents a thousand feet, while a selected sample of Leavenworth coal at \$4.75 a ton, the test showed is the same as gas at 18.54 cents a thousand feet. Burlingame coal at \$5 a ton is the same as gas at 22.58 cents a thousand feet, and a smithing coal, a \$10 coal used by blacksmiths, is equivalent to gas at 36.61 cents.

### Movable Cooking Schools

Schools in home economics will be held in many Kansas towns between March 1 and October 1 under the direction of trained teachers from the Kansas State Agricultural college. Busy housewives and others who would not be able to leave their homes to study in Manhattan will have the opportunity of taking work under trained teachers in such subjects as food preparation, canning, dietetics, home nursing, home management, sewing, and home art.

Nearly 1,000 persons attended 26 schools, last year, in Kansas. More courses than formerly are now offered. An extension school may be organized in any locality by the school authorities when it is to be conducted in connection with the school, by women's clubs, by committees representing any organization, or by individuals who wish to take the responsibility upon themselves to organize a school. Schools will be held only where 75 or more members are enrolled. Further information may be had from Miss Frances L. Brown, director of home economics in extension, Kansas State Agricultural college, Manhattan, Kan.

### Powder Not all for War

Powder, in the opinion of many excitable persons, means war unless it's for faces, teeth or bugs. Speak of one of the big powder companies, the Du Pont Company of Wilmington, Del., for instance and people think of explosives and war. Such is a wrong impression. True, they are the largest powder makers in the world, but the explosives should not always be considered a destructive agency. Everybody knows explosives are used for war purposes, but they are also of great industrial benefit, being used for construction, mining, agricultural and sporting purposes.

The company is not only interested in explosives, it has put on the market numerous solvents and solutions necessary for the practical and economic manufacture of drugs, chemicals, fertilizers, adhesives, preservatives and many other such products. It is the largest manufacturer of leather substitutes in the world. Such leather is now being extensively used for automobile, furniture and railway car upholstery as well as book-binding. During 1916 a large addition to the Newburgh, N. Y., plant was started. The scarcity of leather is working the plant night and day, and then it is not keeping up with the orders.

Edith—"Haven't you and Jack been engaged long enough to get married?"  
Ethel—"Too long! He hasn't got a cent left."—Boston Transcript.



Fair tonight and Saturday;  
lowest temperature  
tonight - 28 - moderate  
northwest wind.

# THE CHICAGO

TWENTY-SEVENTH YEAR.

FRIDAY

**PLAN TO BOOST  
PRICE OF FARM  
IMPLEMENTS**

Manufacturers in Session Here  
Assert Cost of 7

**\$1,227,740 Is  
Due; 13 Cents  
All City H**

**ESCAPE**

From  
Chicago Evening Post

**Read This  
and This**

## Racine **SATTLEY** Farm Implements At Low Factory-to-You Prices

**I**N the face of the high prices on farm implements, every farmer in the country will welcome the news that Montgomery Ward & Company have taken over the entire Sattley Plant at Springfield, Ill. They will manufacture the genuine and old reliable Sattley plows, harrows, corn planters, cultivators, seeders and the complete Sattley line which American farmers have used and praised for 68 years. Sattley implements have always been known by their high quality and the generous weight put into each part. Sattley represents the greatest value money can buy, and now

**Montgomery Ward & Co.**

**Satisfaction Guaranteed or Your Money Back**

**Offer You This Famous Line of Farm Implements at a Substantial Reduction in Price Over Implements Anywhere Approaching Their Quality**

For many years we have wanted this chance—now we have it. And it means in this period of increased prices, great savings to every farmer in America.

We now own and operate the big Sattley plant at Springfield, Ill. We turn out hundreds of these high quality Sattley Implements daily. Not a change has been made that might effect a difference in Sattley quality or construction. The only change is in the selling policy, and that for your benefit—now you get Sattley Implements "direct from the factory" at lower-than-prevailing prices and in less time.

**And We Guarantee This!** No matter what the price

of steel—neither the quality nor the weight will be changed a particle.

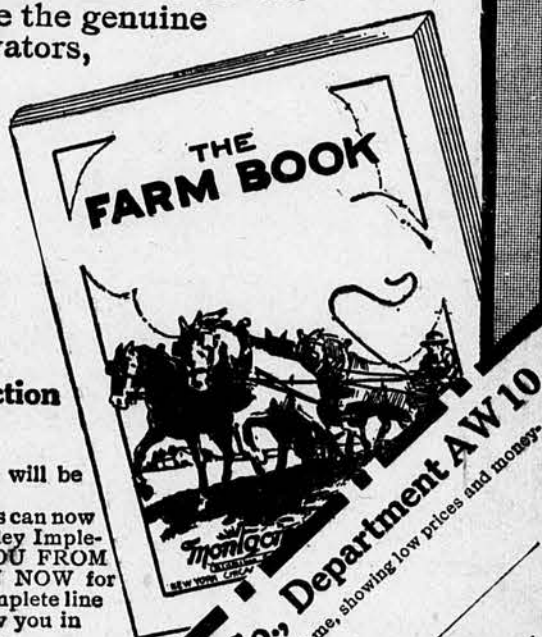
**Save Money on Sattley Parts.** Sattley users can now get parts at reasonable prices. Every Sattley Implement and part will be sold **DIRECT TO YOU FROM THE FACTORY.** MAIL THE COUPON NOW for our new farm implement book, showing complete line with parts and prices. The book will show you in figures the big money-saving you can make.

The increased price of farm implements should not affect you. Don't let it. Send us the coupon now and save money instead.

**Montgomery Ward & Co.**

Department  
AW 10

New York Chicago Kansas City Ft. Worth, Tex. Portland, Ore. Write House Most Convenient.



**Montgomery Ward & Co., Department AW 10**

Send a copy of your Farm Book without cost to me, showing low prices and money back guarantee on Sattley implements.

Name \_\_\_\_\_  
R. R. or St. No. \_\_\_\_\_  
Postoffice \_\_\_\_\_  
State \_\_\_\_\_



## Here's Full Crop Insurance!



**Do you realize** the odds set against your crops right from the start? All kinds of parasites as well as hails, smut, bit of stem and other foreign substances in your seed take the life out of them. Don't lay all blame for poor stand on your soil and drought. Use a

### Watkins & McCabe Seed Grader

Not merely a seed cleaner—but the most efficient seed grader, as well. Cleans and grades all kind of grain—from corn to finest millet, flax and alfalfa. Especially designed for Southwestern farmers—fills the peculiar needs of this territory better than any other machine.

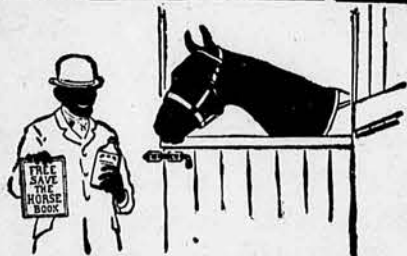
### Enjoy Record-Breaking Crop Yields

You can soon become the talk of your neighborhood as the result of big yields. Increase the value of your farm. Sell seed grain—cleaned and re-cleaned and graded. Your farmer friends will pay your price. The Watkins & McCabe Seed Grader is honestly designed and honestly constructed. Made from seasoned wood and strongly reinforced with iron and steel—will last many years.

### Price \$37.50 Fully Equipped

Good dealers sell the Watkins & McCabe Seed Grader. If yours can't supply—write us at once. Satisfaction or money-back guarantee.

**WATKINS & McCABE MFG. CO.**  
108 So. Water Street, Wichita, Kansas.



## This Book and This Bottle Makes Him \$800

Ogden, Ia., April 18, 1915.

Troy Chemical Co., Binghamton, N. Y. Gentlemen—I have used 'Save-The-Horse' for years and I never found any case but it would do just what you claim for it. At present I have a horse I want to race and want your advice and another book. I lost or mislaid mine. The last time I bothered you your advice and treatment did the work, and I sold this horse for \$800. Yours truly, H. S. HELPHRY.

Do you know HOW simply, comprehensively and authoritatively our FREE "Save-The-Horse BOOK" clinches the diagnosing and TREATMENT of all lameness?

## SAVE-TH-HORSE

The greatest-of-all remedies is sold with a signed Contract-Bond to return money if it fails on Ringbone, Thoropin, SPAVIN, or ANY Shoulder, Knee, Ankle, Hoof, or Tendon Disease. Every year, for over 21 years, thousands of stubborn and supposedly incurable cases are cured by SAVE-TH-HORSE after all other methods failed. Be prepared! Write today for 'Save-The-Horse BOOK', sample of contract and expert veterinary advice—ALL FREE. Keep a bottle of SAVE-TH-HORSE always on hand for emergency.

### TROY CHEMICAL CO.

15 Commerce Ave., Binghamton, N. Y. Druggists Everywhere sell 'Save-The-Horse' with CONTRACT, or we send by Parcel Post or Express Paid.

## Drilling Wells is a Year Round Business

Drilling Water Wells is a profitable, healthful year-round business. There are wells all around you to be drilled. Don't you want to get into a money-making business for yourself? Write for particulars. **Star Drilling Machine Co.** 644 Washington St., Akron, Ohio

## "Only a Girl's Love"



By Charles Garvice

In this intensely dramatic love story we watch with bated breath the unfolding of a high life drama of absorbing interest. Rank and wealth, pride and prejudice, vice and villainy, combine in a desperate and determined effort to break off a thrilling love match. The development, temporary rupture and final consummation of which, by the genius of the author, we are, with spell-bound interest, tense arteries and throbbing hearts privileged to witness. This desperate attempt to halt the course of true love and dam the well springs of an ardent affection, will be watched by the spell-bound reader with an unabated interest.

**SPECIAL OFFER:** This interesting story book sent free and postage paid for one new or renewal subscription to the Missouri Valley Farmer at 30c. MISSOURI VALLEY FARMER, Book Dept. G. L. 2, Topeka, Kan.

## How to Get Farm Loans

The Federal Farm Loan Board announces that the blank form of articles of association to be used in forming National Farm Loan associations has been printed and is now ready for distribution. If interested persons will address a letter to the Federal Farm Loan Board, Treasury Department, Washington, D. C., these articles of association will be sent. When they reach you, call a meeting of the prospective members of your association, adopt these articles, and have each member sign them and acknowledge them. Fill in the blank space at the top the name your association adopts.

Then, at your first meeting, elect a board of five or more directors and have the directors meet and elect a president, a vice president, a secretary-treasurer, and a loan committee of three members. The loan committee may begin at once to value the lands of the members and prepare its written report of these valuations, which must be unanimous.

Send the signed articles of association to the land bank of your district, asking for forms which include an application for a charter. When these come, fill them out and return them with the articles of association and the

Eleventh: California, Nevada, Utah and Arizona.

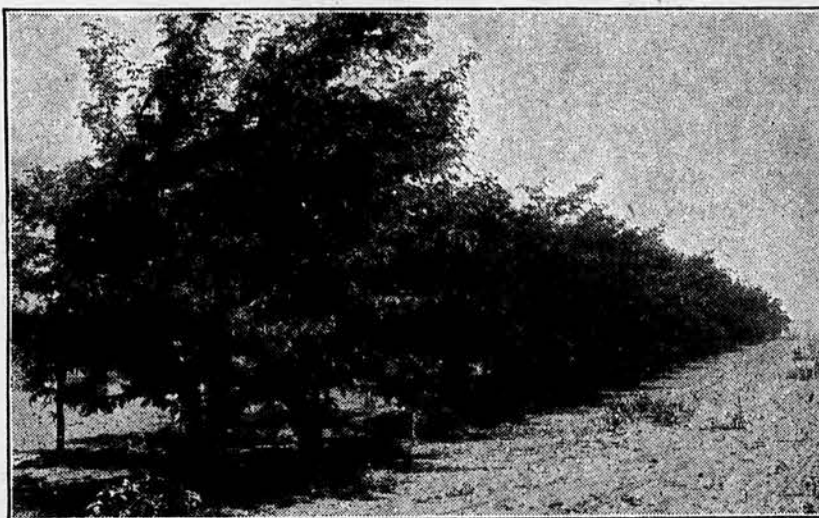
Twelfth: Washington, Oregon, Montana and Idaho.

## Avoiding Winter Car Trouble

In using the low grade gasoline now being sold, it is absolutely necessary that engines be drained completely and refilled with clean, fresh oil of medium grade, at least once every 1,000 miles, preferably every 500 miles in cold weather. This advice comes from the Nebraska College of Agriculture. Unless this is attended to at regular intervals, quantities of kerosene and water accumulate in the crank case and lead to burnt-out bearings, worn cylinders and pistons, fouled spark plugs, and carbonized motors. No doubt much engine trouble found now is due to these difficulties.

## More Trees for Kansas

Good progress is being made in getting more windbreak plantings on the farms in Western Kansas. A most encouraging interest in the planting of trees has been developed. The Hays Experiment station sold almost 100,000 trees for planting in Western Kansas



A Windbreak on the Colby Experiment Station Which Has Given Good Protection to the Orchard; Western Kansas Needs More Trees.

report of the loan committee, to your land bank. These banks have now been located.

The federal farm loan board has announced the following cities in which Federal Land Banks will be located:

Springfield, Mass.; Baltimore, Md.; Columbia, S. C.; Louisville, Ky.; New Orleans, La.; St. Louis, Mo.; St. Paul, Minn.; Omaha, Neb.; Wichita, Kan.; Houston, Tex.; Berkeley, Calif.; and Spokane, Wash.

The twelve districts are:

First: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York and New Jersey.

Second: Pennsylvania, Delaware, Maryland, Virginia, West Virginia and the District of Columbia.

Third: North Carolina, South Carolina, Georgia and Florida.

Fourth: Ohio, Indiana, Kentucky and Tennessee.

Fifth: Alabama, Mississippi, and Louisiana.

Sixth: Illinois, Missouri and Arkansas.

Seventh: Michigan, Wisconsin, Minnesota and North Dakota.

Eighth: Iowa, Nebraska, South Dakota and Wyoming.

Ninth: Oklahoma, Kansas, Colorado and New Mexico.

Tenth: Texas.

in 1916, and it has about 250,000 for sale this year. Information in regard to the best methods of planting trees in Western Kansas has been collected by the state forester, C. A. Scott of Manhattan. Full details can be obtained from Mr. Scott.

## Alfalfa Leaves for Sows

For years I have had good alfalfa hay with plenty of leaves on it stacked near the barn at cutting time. When I am ready to feed horses and cows I lay down a tarpaulin, throw the hay on it and give it several shakes. This gives me plenty of leaves for my sows. Last winter it cost me only 25 cents a week for mixed grain for every sow after giving them all the dry leaves they could eat.

L. Jackson.

## Good Colts at Beeler

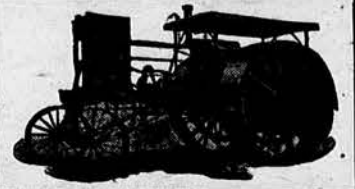
I am sending you a picture of two of my colts. One is 2 years old and weighs 1,300 pounds; the other is 3 years old and weighs 1,450 pounds. We can raise good horses here in Ness county. This is an excellent livestock country, which has already made a great record with cattle and hogs.

Beeler, Kan.

C. H. Brocher.



C. H. Brocher of Beeler, Ness County, and Two of His Colts which Show Good Breeding and which Have Been Fed Properly.



## Flour City Tractors

### 17 YEARS IN THE FIELD

A PRACTICAL DESIGN CAREFULLY DEVELOPED.

SIMPLICITY IS ITS BEAUTY, STRENGTH AND POWER ITS STRONG POINT.

ITS SUCCESSFUL CAREER HAS BUILT OUR FACTORY AND MADE OUR BUSINESS

THE FLOUR CITY IS BUILT IN SIZES SUITABLE FOR ANY FARM.

BUY ONE BIG ENOUGH TO DO YOUR WORK.

CATALOG ON REQUEST.

**KINNARD-HAINES CO.**  
855 44th Ave. MINNEAPOLIS, MINN.

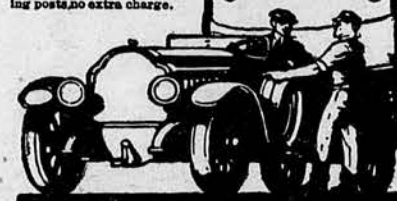
## Columbia Batteries

Power! Speed!

Bring out the best your engine's got, with the hot, fat spark of Columbias.

National Carbon Co. Cleveland, Ohio

Fabnestock spring-clip binding posts, no extra charge.



## THE INDIANA SILO

Fifty thousand are now in use on the finest farms in America.

If you are going to buy a silo—this satisfactory service rendered everywhere—should be of special interest to you.

The cost of all materials is advancing like the price of wheat and corn.

Why not save money by contracting for your silo now. It undoubtedly will cost you more next spring or summer.

Let us send you our proposition—to contract now for your silo and deliver it later. We still have openings for a limited number of farmer agents.

### INDIANA SILO CO.

579 Union Building, ANDERSON, INDIANA  
579 Exchange Bldg., KANSAS CITY, MO.  
579 Indiana Building, DES MOINES, IOWA  
579 Live Stock Exch. Bldg., FT. WORTH, TEXAS

## Six Valentine Leaflets Free

Each of these Leaflets are in envelopes, the Leaflets are printed in colors, beautifully gold embossed and have verse on inside page. Do not confuse these Valentine Leaflets with the ordinary cheap cards that you see advertised. They are high grade printed on enameled card board. Set of six with envelopes, given free with a three months' subscription to our big magazine at 10 cents. Address

HOUSEHOLD, Dept. V. L. 7, Topeka, Kan.



## A Psalm of Kansas

Born while poignant grief and sorrow  
Rent the nation's soul apart,  
Baptized in the blood of heroes  
Wellington from each pierced heart;  
In the throes of fierce rebellion  
To the sisterhood she came;  
But her heart was purged of passion  
In the waning of its flame.

Favor'd child on whom the sunshine  
Loves to shed its golden rays;  
Placing on her heart fresh blossoms  
All the long, sweet, summer days.  
Dancing then in joyful gladness  
O'er the undulating plains,  
Bringing forth a ripening harvest  
Of life's precious, golden grains.

Like the sunshine, she, with manhood,  
Brings to life the nation's best;  
Men, who in life's fiercest battles  
Bravely stand the acid test.  
Men, who dare to solve life's problems  
—Freed from rum's accursed blight—  
Men, with love of home and heaven,  
Freedom, justice, truth and right.

Kansas, fairest of the sisters,  
Now the greatest, grandest state.  
Guiding star that leads the nation  
Onward to its destined fate.  
Strong of heart and stern of purpose,  
Bends she nobly to the task;  
Sending light to darken'd places  
Powers of evil to unmask.

First in temperance, first in morals,  
Bearing love for all mankind,  
Noble sons and lovely daughters  
Clean in thought, in heart and mind;  
Battling with the adverse currents  
That impede life's onward flow,  
Striving to attain perfection  
In this mundane sphere below.

Aye "Ad Astra per Aspera"  
Is the motto on our shield,  
"To the stars through difficulties"  
And we'll not retreat or yield.  
A single inch of progress  
That we've fought hard to maintain  
And we'll yet surmount the obstacles  
That on our path remain.  
Morland, Kan. —J. H. B.

## Standardize Farming

In your issue of January 13 C. A. Leinbach gave two excellent points in regard to the Grange and the Farmers' Union: Organize and Commercialize. But he left out the one that will make those two successful: Standardize. The Grange and the Union have organized but neither has standardized nor commercialized in any real sense of the words. To sell our products to the best advantage we must, in one neighborhood raise one standard variety of whatever crops or stock we raise, so that we can go together and sell in quantities.

Take cattle for instance. A fairly nice car of all one kind of cattle looks much better than all colors mixed together, no matter in what good condition they may be. We could get more for fruits, vegetables, poultry, hogs, cattle and horses if a neighborhood would standardize on one of each kind. They could be raised much more cheaply, too.

I believe Mr. Leinbach is wrong when he says the primary object should be to sell the farmer's produce at the highest possible price. That is selfishness and would soon bring ruin to the orders. I do not think we can improve on old Father Kelley's object when he founded the Grange: "To develop better citizenship; better homes; to love farming, and have a better, mutual understanding and co-operation."

We need to learn these objects much better.

We now have too much of the haphazard commercialism, and not enough of the real issues that count for a better American farmer in our Grange.

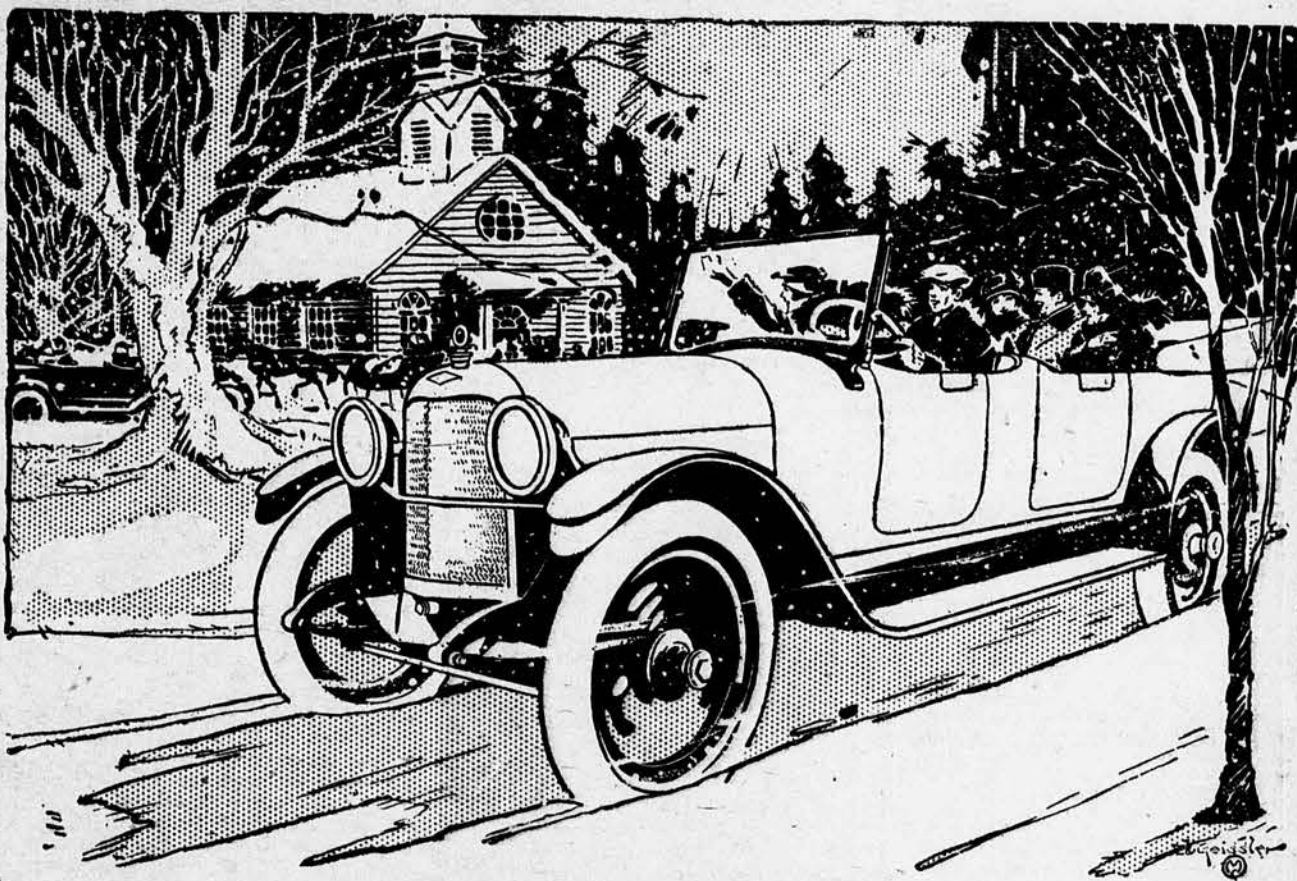
F. I. Snider.

R. 3, Mound City, Kan.

## How to Win Prizes

Hundreds of letters are thrown away in every contest because the writers didn't know how to prepare the material they wished to submit. Many editors cannot afford the time needed to re-write contestants' facts. Such labor would make the contributions too costly. These are some of the reasons why Dillon's Desk Book was written. It contains only 48 pages but almost all the problems that confront a writer are described and explained. It is not technical. Instead of quoting a lot of rules which few persons five years out of school have remembered, the writer simply tells you "Don't do this" and "Do it this way." Any one can understand it. This book is the standard of style in writing and setting type in the big plant of the Capper Publications. You can get a copy for 50 cents by addressing Charles Dillon, Topeka, Kansas.

Maid—"Is this paper from Mr. Scribber's room waste paper, mum?"  
Landlady—"No. He hasn't written anything on it yet."—Judge.



Stratford "Six-51"

7-passenger

\$1495

f. o. b. Detroit

PAIGE

The Most Beautiful Car in America.

Linwood "Six-39"

5-passenger

\$1175

f. o. b. Detroit

WHEN you attend your automobile show, make it a special point, please, to see the Paige Exhibit. In our opinion, the new Paige Models represent the greatest achievement of the year in motor car building—and value giving. In all earnestness we say that you can't afford to buy any car until you have first seen the Paige.

THE PAIGE-DETROIT MOTOR CAR COMPANY, 211 McKINSTRY STREET, DETROIT, MICHIGAN

NO STUMPS too big. Get the richest, most productive land into crops. Make more money. Hercules on 30 days' free trial. Three-year guaranty. Safe and fast. Send post card for free book. Introductory price offer now.

HERCULES MFG. CO.  
928 25th St., Centerville, Iowa

AUTOMATIC Grain & Tankage FEEDER \$16.75

Stop Disease and Sickness. Clean, Sanitary Feed—No Waste.

The only hog feeder on the market feeding Grain and Tankage without clogging and bridging. The "Meyer" handles any kind of feed; accommodates 50 to 75 hogs. Regulates the feed they eat and keeps the feed clean and wholesome. Your hogs are sure to be healthy and profitable if you have this \$16.75 Feeder. Make big money from your hogs. Write for FREE CIRCULAR which shows many styles and sizes.

THE MEYER CORPORATION  
Morton, 515 Meyer Block, Illinois

## Jay Brand Cotton Seed Meal

36 to 38 per cent Protein

We highly recommend this Brand to your consideration. Finely ground, good yellow color, and free of excess lint, runs uniform in analysis.

Cotton seed meal is cheapest concentrate on the market, and no grain ration is balanced without it. Animals need protein. Everything now is high, and best results are absolutely necessary to show proper profits in your operations. Use more cotton seed meal, more farm roughage, less grain, and get larger profits.

Let us quote you.

F. W. BRODE & CO. (BRANCH OFFICE) DALLAS, TEXAS

Established 1875

MEMPHIS, TENN.

Incorporated 1915

OWNERS: Celebrated — Owl Brand Cotton Seed Meal—41 to 43% protein  
Dove Brand Cotton Seed Meal—38½ to 41% protein  
PRICES ON REQUEST

## Do Your Own Mending

WITH A SET OF THE "ALWAYS READY" COBBLER'S TOOLS

This handy shoe repair outfit was made especially for home use. With the aid of these tools you can easily do any kind of shoe repairing at a great saving of time and expense. The outfit comes securely packed in a box and consists of the following: iron stand for lasts; one each 9 in., 7½ inch, 5½ inch lasts; shoe hammer; shoe knife; peg awl; sewing awl; stitching awl; one package of heel nails; one package of clinch nails; and full directions. A most complete and serviceable outfit which will always give satisfaction.

OUR OFFER: This cobbler's outfit may be had free all mailing charges prepaid by sending a one-year subscription to Mail and Breeze at \$1.00 and 25 cents to help pay packing and mailing charges—\$1.25 in all. Either new or renewal subscriptions will be accepted. Send in your subscription and remittance at once to

FARMERS MAIL AND BREEZE  
Dept. C. O. 10, Topeka, Kansas.



## SEEDS

Reliable and Full of Life  
**SPECIAL OFFER**  
Made to build New Business. A trial will make you our permanent customer.

**PRIZE COLLECTION** Radish, 17 varieties, worth 15c; Lettuce, 12 kinds, worth 15c; Tomatoes, 11 the finest, worth 20c; Turnip, 7 Splendid, worth 10c; Cakes, 8 best varieties, worth 15c; 10 Sprouts, Flowering Raisins, worth 25c—65 varieties in all; worth \$1.00.

**GUARANTEED TO PLEASE**  
Write today; mention this paper  
**SEND 10 CENTS**

to cover postage and packing and receive this valuable collection of seeds postpaid, together with my big instructive, beautiful Seed and Plant Book, tells all about Buckbee's "Full of Life" Seeds, Plants, etc.

**H.W. BUCKBEE**  
Rockford Seed Farms  
Farm 100 Rockford, Ill.

## Beautify Your Home Grounds

**FREE PLANS**

We want to get in touch with every reader of this paper who is interested in beautifying his home. That's our specialty. Send in your name and that of three friends interested in flowers, gardens, etc., and we will send you one of our beautiful Grass and Topsoil Roses free. Or take your choice of these **Two Special Introductory Offers**: No. 1. Your choice of any three 15-cent catalog roses for only 25c and a Grass and Topsoil Rose free. No. 2. We will send you three of our best varieties of Peonies, red, white and pink, a regular \$1.50 value for only 50c, and a Grass and Topsoil Rose free. Accept one of these splendid offers and let's get better acquainted. At any rate be sure to write for new, free catalog, telling about our **Woods Bros. Evergreen Trees**, Shrubs, and other ornamental nursery stocks. We offer you one of the largest and finest stocks in the country to select from. We guarantee to please you. Let us help you plan. No matter how simple or extensive your plans may be, we are prepared to serve you at very low cost. Our help and suggestions cost you nothing and we furnish free complete landscaping plans when you buy of us. Write us for free catalog, showing full line of evergreens, perennials, trees, shrubs, roses. Just put your name on postal or write us telling what you want. Our free service will help you. **Woods Bros. Nurseries, Dept. 111, Lincoln, Neb.**

Try Our **FREE** Service Department

## SEED CORN

This year I have the best lot of Reid's Yellow Dent and Boone County White that I have ever handled in all my many years' experience in the seed business, and am so confident of it I am selling it on a positive guarantee that **IT MUST PLEASE YOU OR YOUR MONEY BACK**.

Hand selected, Butted and Tipped. Shelled and graded, \$2.50 a bu.; 5 bushels or over \$2.00 a bu. Cash with order. As I have only a limited amount to offer, better order now and not be disappointed.

**S.G. TRENT** Box B,  
Hiawatha, Kan.  
Member Kan. Corn Breeder's Ass'n, Winner Corn Prize Panama Exposition. First Prize Seven Consecutive Years on Seed Corn.

## SWEET CLOVER

### BUY "ACORN BRAND"

Genuine Kansas Grown Hulled Seed which only few localities can furnish. Kansas climate and season enables us to get the finest quality hulled seed, same as Alfalfa. "Acorn Brand" Sweet Clover is the choicest of the crop, is carefully cleaned and re-cleaned and tested. Send at once for sample, stating which you wish to sow—Genuine Biennial White Blossom or Genuine Biennial Yellow Blossom. New 1917 Seed Book on request.

**ROSS BROTHERS SEED CO.**  
104 E. Douglas Avenue,  
Wichita, Kansas.

**Nothing Equals Sweet Clover**  
An fertilizer for improving worn out soils quickly. Easy to start. Grows everywhere. Feeding value equal to Alfalfa. Good pasture, will not bloat stock.

## HYDE'S SUDAN

Hyde's Sudan is tagged—Showing exact purity and germination. Why take a chance? We ship direct from farm to farmer. Hyde's Sudan is the best seed money if not entirely satisfied, **FREE CATALOG** and Price List sent postpaid—Write at once.

**HYDE SEED FARMS,**  
300 Hyde Bldg., Pattonsburg, Mo.

## TREES NO COLD STORAGE

We grow a full line of fruit and ornamental trees, vines and shrubs. APPLE and PEACH 6 to 10c each and everything else in proportion. Write today for special prices to planters.

**CALDWELL NURSERIES, Box A, Caldwell, Kansas**

## SEEDS

You need good, fresh, reliable Seed for Garden, Field or Flowers. Write for our 1917 catalog and price list. It is mailed **FREE**.

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### Catalpas Grow Rapidly

Some remarkable records have been made in western Kansas with the second growth catalpas. This was true especially in 1915, when the abundance of moisture in connection with plenty of plant food and a well established root system forced a rapid growth. As a rule



This Catalpa Sprout Grew From the Old Stump in Five Months.

such a sprout grows straight, and later develops into excellent post timber. The results which are being obtained from catalpas in Kansas are decidedly encouraging in many ways. They indicate that a larger acreage of this timber will pay well. In many cases, especially in the Arkansas bottoms, catalpas have paid much better than similar land planted to ordinary grain crops.

### Food Production

BY NAT C. MURRAY

An investigation into the production, imports, and exports of food products of various countries indicates that England produces about 53 per cent of her food requirements, and imports about 47 per cent; Belgium produces 57 per cent, and imports 43 per cent; Germany produces 88 per cent, and imports 12 per cent; France produces 92 per cent, and imports 8 per cent; Austria-Hungary produces 98 per cent, and imports 2 per cent; Russia produces about 110 per cent of her requirements, and exports an equivalent of about 10 per cent. Canada produces 23 per cent more than she consumes; Argentina produces 48 per cent more than she consumes; and the United States produces practically no more than she consumes. The exports and imports of foodstuffs almost balance.

These estimates are based upon the latest available data, mostly for the years 1912 and 1913. The importations represent the net importations; that is, exports are deducted from the gross imports. In making these estimates difficulties arose, mostly in determining the production of meat products from available data of livestock; also, in securing satisfactory valuation of the classes of foodstuffs, as edible grains and meats, which was necessary to establish a weighted average of production for all products. But, notwithstanding these difficulties, the figures given probably are within a small per cent of accuracy.

The country most dependent upon importation from foreign countries is the United Kingdom (England, Wales, Scotland, and Ireland). She produces only 27 per cent of her requirements of edible grains, but 53 per cent of her meats, 62 per cent of her dairy products, 58 per cent of her poultry, more than 90 per cent of her vegetables, and 21 per cent of her fruits. Of fish she produces more than she consumes; that is, she is an exporter of fish products.

It will be observed that her dependence upon imports is greatest of grain products. In some discussions of the food requirements of England, as well as of other countries, conclusions are based solely upon the import requirements of wheat alone, and therefore the dependence upon foreign countries is exaggerated.

For instance, although the United Kingdom imports nearly 75 per cent of her needs of edible grains, she imports only about 10 per cent of her needs of vegetables, the total value of which is nearly equal to that of her edible grains.

Germany imports about 18 per cent of her requirement of edible grains, she produces about 93 per cent of her meats, 92 per cent of her dairy products, 67 per cent of her poultry, 90 per cent of her vegetables, 48 per cent of her fruits; she is a large exporter of sugar, her production being 177 per cent of her consumption; that is, she exports 77 per cent as much as she consumes.

France imports about 7 per cent of her requirements of edible grains, producing about 93 per cent of her requirements; she produces 98 per cent of her meats, 80 per cent of her poultry, and 91 per cent of her sugar; she produces slightly more than she consumes of dairy products, vegetables, and fruits.

Austria-Hungary is almost self-sustaining in food supplies; she is a fairly large exporter of sugar, and a large importer of coffee; in most other food products her imports and exports nearly balance, or are a small proportion of the production.

Russia is a surplus producer of foodstuffs; she exports 19 per cent of her production of edible grains; or, in other words, her exports amount to about 24 per cent as much as she retains for consumption; her exports of dairy products equal about 10 per cent of her home requirements; her exports of poultry are 19 per cent; her exports of vegetables are 4 per cent, and her exports of sugar are 33 per cent of her home requirements.

The United States in recent years has been as large an importer of foodstuffs as an exporter; therefore she cannot be classed as a surplus producer of foodstuffs. This is contrary to the popular impression. It is true that she is an exporter of certain articles, but she is an equally large importer of other articles. In this classification tea and coffee are included with foodstuffs. In edible grains, the production is 23 per cent more than the amount retained; the production of meats is 6 per cent more—that is, exports of meats equal 6 per cent of that retained in the United States for consumption; the production of dairy products is 20 per cent more than consumed; the production of poultry is just about equal to consumption; of vegetables, 1 per cent less; and of fruits and nuts, 6 per cent less. Only 24 per cent of the consumptive requirements of sugar are produced at home, and, of course, none of the tea and coffee.

### This Engine Works

BY DALE HELTON

Two years ago my brother-in-law bought a 4-horsepower engine. Then he dug a large well and built an engine house 14 by 16 feet over it. There is another well 175 yards south of the engine house so he buried pipe from this well to his engine house well and forced water into the large well, moving the engine to the lower well. The engine house is between the house and barn so it is convenient for both.

To pump water to the troughs for cattle and horses it was necessary to bore thru a hill 140 feet from the engine house well. This was done, pipe being laid, and the stock is watered without trouble. And the engine is useful in many other ways. A line shaft was placed in the engine house and two steel burrs and a feed grinder are operated. A churn holding about 10 gallons is attached and 5 gallons of cream can be turned into butter in 5 minutes. The cream separator and the washing machine and wringer all are run by the engine. A washing can be put out much more quickly than by hand.

My brother-in-law built a large cement cellar. It has two ventilators and a drain. The engine house also has a drain. This farm is operated in a modern way.

The cub reporter assigned to "cover" a local wedding sauntered back into the editorial rooms of his paper.

"Where's your 'story'?" called the impatient city editor. "Hand it across!" "Sorry!" said the cub, nonchalantly, "but there was nothing to report! The bridegroom never turned up!"—Christian Register.

A thermometer in the dairy is useful in summer as well as winter.

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See Mastodon Parsies. For immense size, wonderful colors and vigor they are marvels. Seed 10 cts. per pkt. 3 for 25 cts. Everblooming Sweet William, a startling novelty, blooming 60 days from seed, continuing all the season, and every season being hardy. Flowers large, colors exquisite—pkt. 10 cts. These 3 great Novelties, with two more (5) for only 20 cts. See Catalog for colored plates, culture, etc.

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## Sunday School Lesson Helps

BY SIDNEY W. HOLT.

Lesson for February 4. Jesus, the Savior of the World. John 3:1-21.

Golden Text. God so loved the world that He gave his only begotten Son, that whosoever believeth on Him should not perish but have eternal life. John 3:16.

Among the upper class citizens in Jerusalem was a man bearing the Greek name Nicodemus, a ruler of the Jews and a member of the Sanhedrin, the highest court in the religious world of that city. Nicodemus went to Jesus by night, hence a lot of criticism has been hurled at his head for his timidity. This gentle old man may have lacked the grit and fire of which heroes and martyrs are made, but that he went at all was a good sign. Undoubtedly he was dissatisfied with the way in which his co-workers were dealing with Jesus, and by going in secret he could judge for himself, and understand who and what Jesus was before he committed himself publicly to His cause. Perhaps he was only using a simple prudence in the secret trip for we all know that Jesus had enemies among all classes of Jews in Jerusalem. At any rate he obeyed the same call, "Come and See," that Jesus gave to the first disciples.

There was much Nicodemus wished to learn, and in the quiet of the evening hours he would be sure of finding Jesus. We can tell by his respectful manner of address that he thought Jesus God-sent, but he wasn't quite certain as to whether He was the expected Messiah. You see, Jesus as the Savior of the world, was so very different from what the Jewish people expected or even wanted. Their pride longed for the splendor of a regularly established earthly kingdom.

Using the ever-shifting wind as an example Jesus told Nicodemus of the mystery of life, making it plain that no kingdom can understand another kingdom without a new birth. One must be born into life to know life. If we desire the things of this world we will be worldly, for that which is born of the flesh is flesh, but if we seek for something higher it is ours, for that which is born of the spirit is spirit. To be born again in the knowledge of Jesus and God's love is not a hard command or a repulsive doctrine but a blessed privilege. It is a gateway to eternal life. God gives us our will but we have to do our own choosing.

In divine life growth is in exact proportion to the denial of the self-life and we soon learn that the Christ-life within us is destined to grow in strength and grace until Christ is perfectly formed within us if we deny ourselves. It is only as we accept the life of Christ and believe in Him that we can gain an understanding of the most marvelous thing in the world—the Love of God.

"God so loved the world that He gave his only begotten Son, that whosoever believeth in Him should not perish, but have everlasting life."

Jesus came into the world as God's eternal love for the salvation of man, and the greatness of this love is shown by the fact that He gave Himself freely that men might be saved.

Every child of God is born with the ability for faith, and faith is required not as an arbitrary, but as a necessary condition of salvation. It is a test of obedience and if we have not faith in Christ we are not loyal to God's kingdom who did not send his Son to condemn, but to save the world. The world was already condemned and it was only thru God's love in sending Jesus that redemption was given us.

Undoubtedly the work of redemption for the universe is done in this world for there is waging at all times a great battle between good and evil. We know that the Love of God is as wide as the universe, as long as eternity, higher than our highest hope or the heavens, and deeper than the depths of sin. This knowledge enables our faith to grow and grow as we go on building it bit by bit as life's experiences bring to us the proofs that Jesus is the Savior of the world.

"Look at 'em!" exclaimed the burglar. "Look at what?" asked the pocketbook-snatcher.

"Them black an' white stripes that's all the style! I kin remember when they put 'em on us we thought we was disgraced!"—Washington Star.

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Because it wants more freight and passenger traffic, also

Because it wants to help you to produce more — make more for yourself.

If the Santa Fe did not believe that both you and the new country will make good, it would not recommend that you buy a farm here.

To speak frankly, we expect mutual profits; you, as a good farmer, the Santa Fe as a carrier. It is a fair question to ask: "Why should I pull up stakes and go to a comparatively new country?"

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You have a right to expect greater profits. Those who stick and work hard make more money farming here than back East.

Ochiltree and Hansford, the northern tier of North Texas railroadless counties, soon are to have a railroad, the Santa Fe, with access to world markets. The best land will be sold at about \$20 an acre on eight years' time to bona fide settlers. It is bound to increase in value. This land should earn, if farmed right, 26% a year on that valuation.

Wheat is a big money-maker, also cattle and hogs. Each acre you buy has been inspected by the Santa Fe Agricultural Agent. There is no guesswork about crops. Results are reasonably certain, as others have pioneered for you.

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This is surely a land of great possibilities for the man of small means. Stop paying rent and have a farm of your own. The rise in value will be immediate when the railroad is completed. The Santa Fe wants you to get in

before the rush, so you can pick out just the farm you want. I will put you in touch with the owners.

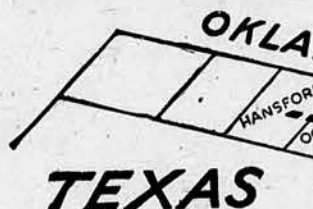
WRITE ME TO-DAY, for illustrated folder of new North Texas lands; it contains letters from farmers who have made good.

### Old Timer's View

I have lived in this county for over thirty years and ranched for about eighteen years of that time. The cattlemen's idea was that this soil would not produce anything except the native grasses and it never seemed to occur to them that it might some day develop into a farming country. Yet such has been the case.

The first farming was done in the county about fifteen years ago and from a small beginning, although 50 miles from a railroad, Ochiltree has advanced from the last to well up toward the first in the production of wheat and hogs, among all the counties in Texas. Furthermore, our farmers are making money almost without exception.

Judge Geo. M. Perry,  
Ochiltree, Texas.



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in colors explains how you can save money on Farm Truck or Road Wagons, also steel or wood wheels to fit your gear. Send for it today. Electric Wheel Co. 30 Elm St., Quincy, Ill.

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Of all flowers, no other excites so much attention and admiration as Climbing Roses, and none gives more pleasure; adapting themselves as they do, to many uses. The varieties we offer have been selected for their hardiness, strong, climbing habit, freedom of bloom, beauty of flower and sweetness of scent. These roses are rapid climbers, frequently producing shoots from ten to twenty feet in a single season. The flowers are produced in lavish profusion and present many beautiful and gorgeous colors. These roses are admirably suited for porches, arbors, walls, trellises, etc., and are also valuable for fences and lattice work around the home or garden. Of the many rambler roses introduced in the past few years, the following list presents roses which have been recognized as the

### "All Star Collection"

The roses that we offer are from one of the largest nurseries in the world and are guaranteed to reach the subscribers in good growing condition. They are strong one-year plants, well rooted and are of blooming size. The instructions sent with the roses, will make it easy for you to bring the plants in fine large bushes even if you have never before grown roses.



### Description of the Climbing Roses

#### White Dorothy Perkins

A pure white sprout of well-known Dorothy Perkins, of same habit of growth and freedom of flowering; a splendid companion for the pink variety, as it flowers same time. A valuable addition to the class. Awarded gold medal National Rose Society, and award of merit Temple Show, England.

#### Tausendchön

Tausendchön, which in German means Thousand Beauties, is a beautiful rose with colors running from delicate balsam or tender rose through the intermediate shades of bright rose and carmine, with white, yellow and various other delicate tints showing. Strong and hardy.

#### Dorothy Perkins

Beautiful shell pink. A rapid grower, frequently developing shoots from 10 to 15 feet long in one season. Hardy, withstanding the severest winters without injury. Blooms in clusters, flowers double and large.

#### White Baby Rambler

This is a true ever-blooming Crimson Rambler. There has been a widespread demand for a Crimson Rambler that would bloom more than once. Here you have it. Everyone knows how Baby Rambler is always in bloom. This is simply a climbing form of the Baby Rambler, embracing all its good qualities.

#### Shower of Gold

Color deep golden-yellow and orange. A very vigorous grower. The foliage is beautiful in form, in color, and in its high metallic luster. Produces a mass of bloom. One of the finest, leaving little to be desired in a yellow.

#### Excelsa

A distinct variety in color, form and habit. The color is an intense crimson-maroon, with tips of the petals tinged scarlet. Flowers large and double, 30 to 40 on a stem, and almost every eye on a shoot produces a cluster of bright blossoms.

**SPECIAL OFFER** We will send six of these beautiful Climbing Roses free and postpaid to all who send us 60¢ to pay for a THREE year subscription to the Missouri Valley Farmer. New or renewal subscriptions accepted on this offer.

**MISSOURI VALLEY FARMER, Rose Dept. 2, Topeka, Kan.**

## TOM McNEAL'S ANSWERS

### Breach of Contract.

A had a 240-acre farm in Kansas which he valued at \$100 an acre. B had income property in Kansas City, Mo., valued at \$25,000. A listed his farm for trade with an agent in Kansas City for income property. A inspected B's property and offered him a trade. A trade was arranged on the following terms: B to assume \$9,100 on the A farm. A agreed to assume \$10,000 first and \$3,500 second mortgage on the B property. B and wife executed deed. A's wife refused to sign deed at the time but promised to be back in a day or two and sign up. It is past two years now since the trade was agreed upon but A's wife has not signed yet. Has B a right to damages from A and wife for breach of contract? **SUBSCRIBER.**

There is nothing in your statement to indicate that A's wife was a party to the original contract, and if not she could not be held for damages for breach of contract. Neither can A compel his wife to sign the deed to the farm unless she wishes to do so, and I scarcely believe the court would hold A liable for failure to do what it was impossible for him to do. If A and wife were both parties to the first agreement then B unquestionably would be entitled to damages for their failure to live up to the terms of the agreement.

### Reclamation and Homestead Acts.

What is the Reclamation Act? Can a man, after buying 160 acres or more, take up a homestead? Is it advisable to apply nitrogen as a commercial fertilizer and why? **Detroit, Kan. M. S.**

The Reclamation Act was passed by Congress in 1902. It provides for the withdrawal from homestead entry under the old Homestead Law of such arid lands as a survey would show to be susceptible of irrigation. The act made an appropriation of 50 million dollars to be used in developing irrigation projects. Since then 25 million dollars more has been appropriated for the same purpose. The law also provides that the money derived from the sale of the lands in these irrigation projects shall be kept in a fund for further development. The government surveys the land and constructs the irrigation reservoirs, then the total cost is apportioned to the lands supplied with water from the government project and this fixes the price charged the settler. Originally he had ten years in which to pay for his land, but the Congress amended the law, I believe, giving the settler 20 years to make payment. When the land under irrigation is all sold and the payments all made the whole property including the government dam and reservoir becomes the property of the settlers. There are at present more than 30 of these government irrigation projects completed or in process of completion. Settlers may homestead from 10 to 160 acres in some cases in the irrigated districts.

No. Unless he first parts with the 160 acres.

Nitrogen is the most important of fertilizers. There is no plant that does not require more or less of it. Generally speaking the most economical and effective way to supply the soil with nitrogen is not by buying commercial nitrogen and applying that but by planting alfalfa, clover, soybeans or other legumes. As to whether it is advisable to apply commercial nitrogen as a fertilizer, that would have to be determined by the circumstances in every case.

### Appointment of Administrator.

A dies intestate. His estate consists of real estate mortgages on land he had sold to two of his sons. Will it be necessary to have an administrator appointed to release the mortgage when paid, or will it make the title good if all the heirs sign a release and acknowledge it before a notary? All the heirs are more than 21 years old except one grandchild who has a bonded guardian to sign for him. Would it be necessary for the wives of the heirs to sign also? **H. C. P.**

Where the estate of the deceased is in this state the statute seems to make the appointment of the administrator mandatory. The language of the statute is as follows:

Upon the decease of any inhabitant of this state letters testamentary, or letters of administration on his estate shall be granted by the probate court of the county in which the deceased was an inhabitant or resident at the time of his death.

In regard to the release of mortgages where the mortgagee is deceased and where the estate of such deceased mortgagee is in process of administration a full release of such mortgage may be made by the executor or administrator

without any showing as to the provisions of the will of the deceased, but there must accompany such release as part thereof, a certificate from a court of competent probate jurisdiction appointing such administrator or executor under the hand of its proper officer and attested by its seal, certifying to such appointment, and that such executor or administrator is at the date of such release still so acting under the authority of such court. The law further provides that when an estate has been settled and the administrator discharged, release of mortgage may be made by the heirs at law of such deceased mortgagee.

I gather from your question, however, that this does not apply to the case to which you refer. In this case I assume there has not been a settlement of the estate, and therefore under the law an administrator, the next of kin to the deceased if competent to act, should be appointed and thru this administrator the mortgage should be released.

In case the estate has been settled up and the administrator discharged according to the second provision of the statute referred to and the mortgage is to be discharged by the assent of the heirs, the wives of such heirs should join in signing the release.

### Disposal of Sewage.

A owns a farm not far from the city. A large creek runs thru this farm into which the sewers of the city are emptied making the water unfit for watering stock. It also produces such an odor that it is almost impossible to work near it. Can anything be done to prevent the city's emptying the sewers into it? If not could A make the city pay him a certain sum for making the water unfit for use? **Pittsburg, Kan. E. S.**

Our statutes governing the right of cities to empty sewage into streams are somewhat difficult to understand. One section of the law gives cities the right to construct sewers and connect them with any stream within 5 miles of the city limits. Another section provides that sewage must not be emptied into a stream within 3 miles above where such stream is used for a water supply. Still another section gives the state board of health power to forbid the emptying of sewage into a stream at all provided such sewage is discharged thru a sewer constructed since March 20, 1907.

I believe from your statement, that you can enjoin the city from permitting this sewage to be emptied into this stream provided it is used as a water supply 3 miles or less below where the sewer connects with the stream. If the sewer has been constructed since March 20, 1907, then I believe you can report the nuisance to the state board of health, and that board can order the nuisance abated.

### Overflow Farms.

Two farmers, A and B, own overflow farms, partially covered with water from the adjoining hills after heavy rains; no water courses on either farm. Several years ago A built a dyke to stop the hill water from spreading over his cultivated lands and by so doing turned the water on B's farm. Later B in order to take care of the water on his farm made a ditch running between his farm and that of A, and threw up a dyke between the ditch and A's farm but still on his own land. Can A force B by law to remove the dyke? **A. B. C.**

No.

### Oil Lease.

My brother and I have 160 acres in Oklahoma. He owns 1-8 and I own 8-8. I want to lease for oil. He does not. Will I have to have his consent? If so how can I handle it? **SUBSCRIBER.**

Of course you cannot force your brother to sign a lease if he is not willing to do so. You might, however, have the land partitioned by order of the court. Then you could lease your part.

### Wife's Consent Necessary?

If a man lists his land with a real estate firm to be sold, the contract with the firm not being signed by the wife but with her knowledge, can she stop the deal after the land is sold? **A READER.**

She can. She has the right to refuse to sign the deed to the land and good title cannot be conveyed without her signature.

### Crude Oil and Oleomargarine.

Is any crude oil used in oleomargarine or in butter or other food stuff? **G. B. W.**

I have never heard that crude oil is used in oleomargarine, butter or any other kind of human food.

### Homestead Rights.

I took a homestead in Southwest Kansas, lived on it 18 months and then paid up. Do I still have a right to a homestead or desert claim in Colorado?

No, unless the Colorado claim joins your Kansas claim.



# The Only Way to Buy Trees Direct From Grower to Planter

Why pay three or four profits to wholesaler, retail dealer, and agent when you can order trees, vines and plants DIRECT FROM MY BIG NURSERY at lowest grower's prices? I deal with you instead of through three or four other people who must have their share before the stock reaches you—the planter.

Just suppose you give an agent \$20.00 for trees. He turns \$12 over to the retailer who in turn counts off \$5 for himself and hands over \$7 to the wholesaler. The wholesaler has sticky fingers, too, so he hangs onto \$2 and passes on exactly \$5 to the grower. In other words—the grower gets \$5 to fill your \$20 order and you simply donate \$15 in hard cash to three strangers. That's the OLD way—the money wasting way of buying nursery stock.

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enough to cover my low grower's prices—not a red cent more. You save all middlemen's profits and expenses—you are sure of getting fresh stock.

Look where you will, you can't get better bargains in trees than I offer you right here. Compare my 'way down prices—compare the quality I offer and absolutely guarantee and remember that I save you all middle profits and I'm sure and certain that you'll say "Dunbar has the right idea—he gets my orders from now on."

## Trees By the Million From Nursery to You—Saving All Middle Profits

APPLES				
	Each	10	100	1,000
2 yr. 5-6 ft.	\$0.20	\$1.80	\$17.00	\$160.00
2 yr. 4-5 ft.	.15	1.40	13.00	120.00
1 yr. 3-5 ft.	.16	1.40	13.00	110.00
1 yr. 2-3 ft.	.12	1.00	9.00	80.00

Yellow Transparent, Grimes Golden, Delicious, Winesap, Liveland Raspberry, Early Harvest, Cooper's Early White, Jonathan, Rome Beauty, Gano, many others.

PEARS				
	Each	10	100	1,000
2 yr. 5-6 ft.	\$0.30	\$2.40	\$20.00	\$160.00
2 yr. 4-5 ft.	.24	2.00	17.00	140.00

PEARS—15 LEADING VARIETIES				
	Each	10	100	1,000
2 yr. 5-6 ft.	\$0.32	\$3.00	\$25.00	\$210.00
2 yr. 4-5 ft.	.25	2.25	20.00	170.00

CHERRY				
	Each	10	100	1,000
2 yr. 5-6 ft.	\$0.40	\$3.75	\$33.00	\$280.00
2 yr. 4-5 ft.	.35	3.25	27.00	226.00
Extra 1 yr 4-5 ft.	.36	3.50	28.00	230.00
Large 1 yr 3-5 ft.	.34	3.30	26.00	220.00
Med. 1 yr 2-3 ft.	.25	2.20	19.00	170.00

COMPASS CHERRY PLUM				
	Each	10	100	1,000
4-5 ft.	\$0.25	\$2.30	\$22.00	.....
3-4 ft.	.20	1.90	18.00	.....

PEACH				
	Each	10	100	1,000
1st class 4-5 ft.	\$0.20	\$1.80	\$15.00	\$140.00
1st class 3-4 ft.	.13	1.20	11.00	90.00
1st class 2-3 ft.	.10	.90	8.00	75.00

EARLY WONDER PEACH				
	Each	10	100	1,000
3-4 ft.	\$0.40	\$3.50	\$30.00	.....
2-3 ft.	.35	3.00	25.00	.....

PLUMS				
	Each	10	100	1,000
Extra 5-6 ft.	\$0.32	\$3.00	\$24.00	\$200.00
Large 4-5 ft.	.27	2.50	20.00	170.00
Medium 3-4 ft.	.21	1.90	17.00	130.00
Stocky 2-3 ft.	.15	1.40	13.00	110.00

Red June, Abundance, Burbank, Wickson, Wild Goose, German Prune, Lombard, Damsen, Gold, and other standard sorts.

## Note These Wonderful Bargains

10 Select Apple Trees—2 yr. 5 to 6 ft. trees. 1 Delicious, 2 Stayman, 1 Black Ben, 2 King David, 1 Jonathan, 3 Winesap. Agents ask \$5.00. Collection No. 1. **\$1.50**

20 Select Apple Trees, extra size—2 year, 5 to 6 foot, Stayman, Black Ben, Winesap and other best varieties. Fine, big, extra heavy trees. Agents ask \$8.00. Collection No. 2. **\$2.50**

10 Select Peach Trees—4 to 5 foot trees. 5 Elberta, 1 Chinese Cling, 1 Belle of Georgia, 2 Champion, 1 Carman. Agents ask at least \$3.00. Collection No. 3. **\$1.25**

20 Select Peach Trees—3 to 4 foot. 10 Elberta, 3 Champion, 2 Mamie Ross, 5 Belle of Georgia, the cream of good varieties. Agents ask \$5.00. Collection No. 4. **\$2.00**

20 Peach Complete Family Orchard 2 to 3 foot stock, well rooted. 2 Early Wonder, 2 Mamie Ross, 2 Champion, 7 Elberta, 3 Belle of Georgia, 2 Heath Cling, 2 Late Elberta. Covers all season latest to earliest. Agents ask \$4.50. Collection No. 5. **\$1.60**

5 Apricot Trees—3 to 4 foot. 5 Moorpark or 5 Royal. Hardest and best. Agents ask \$2.50. Collection No. 6. **\$1.10**

10 Select Pear Trees—2 yr. 5 to 6 ft. 8 Keiffer, 2 Garber, biggest money-makers for middle west. Agts. ask \$5.00. Collection No. 7. **\$1.60**

10 Select Plum Trees—4 to 6 foot. Burbank, Abundance, Red June and Wickson, all fine, quick bearing varieties. Agents ask \$5.00. Collection No. 8. **\$2.00**

10 Select Cherry Trees—4 to 5 foot. 4 Montmorency, 4 Early Richmond, 1 English Morello, 1 Wragg. Agents ask \$6.50. Collection No. 9. **\$2.90**

10 Choice Grape Vines—2 year. 1 Catawba, red; 3 Concord, black; 2 Niagara, white; 1 Moore's Early, black; 3 Worden, black. Agents ask \$2.00. Collection No. 10. **\$ .75**

25 Concord Grape Big Vines—Most widely planted black grape. Easily cultivated. Agents ask \$2.50. Collection No. 11. **\$ .90**

100 Everbearing Strawberries—Best variety Progressive. Bear till snow flies. Hardy, vigorous. Agts. get \$5. Col. 12. **\$2.00**

300 Everbearing Strawberries—200 Progressive, 100 Superb. Bear till frost. A wonderful bargain. Agents ask \$15.00. Collection No. 13. **\$4.50**

RASPBERRIES				
	Each	25	100	1,000
Cumberland and Plum Farmer	.....	\$0.07	\$0.80	\$2.50
Kansas and Cuthbert	.....	.06	.70	2.10
St. Regis Everbearing	.....	.10	1.00	3.00

STRAWBERRY PLANTS				
	By mail postpaid.	By express, charges collect, f.o.b. Ark.		
Excelsior	.....	.....	250	500
Klondyke	.....	.....	1.50	2.25
Senator Dunlap	.....	.....	1.80	2.50
Warfield	.....	.....	1.50	2.25
Aroma	.....	.....	1.50	2.25
Gandy	.....	.....	1.50	2.25

EVERBEARING STRAWBERRY				
	Prices Postpaid	Prices f.o.b. Kansas and Iowa Farms charges collect		
Progressive	.....	.....	250	500
Superb	.....	.....	1.00	1.50

GRAPES				
	Each	20	100	1,000
No. 1 Heavy Vines	.....	.....	.....	.....
Concord	.....	.....	.....	.....
Moore's Early	.....	.....	.....	.....
Worden, Niagara	.....	.....	.....	.....
Agawam and other good varieties	.....	.....	.....	.....

BLACKBERRY AND DEWBERRY				
	Each	25	100	1,000
Early Harvest, Eldorado and Dewberry	.....	.....	.....	.....
Mercereau	.....	.....	.....	.....
Ward and Blower	.....	.....	.....	.....

GOOSEBERRIES				
	Each	10	100	1,000
One year	.....	.....	.....	.....
Two year	.....	.....	.....	.....

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Big blocks of shade trees, all varieties, ornamental shrubs, roses, vines, peonies, send for prices.

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Makers, Not Profit Eaters**

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Security Food will take the place of whole milk from the time the calf is three days old. Your calf requires from eight to twelve quarts of whole milk a day. This is worth three to five cents a quart and will cost you from twenty to thirty cents a day to feed your calf whole milk, while you can raise your calf on Security Food for one-fourth the cost. Equally as good for little pigs. If Security Food does not do exactly as we claim for it your money will be refunded.

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Company**  
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I will send you these Bits on 10 days free trial, prepaid parcel post, if you furnish bank reference. If as represented, send \$1.50 each, if not, return the Bits.

**Wm. H. Niemann, Litchfield, Ill.**

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Just to introduce our big monthly magazine we offer a beautiful line of Superior Transfer Patterns, which is partially illustrated above and which we are going to send free and postpaid to all who send 10c to pay for the Household Magazine for the term of three months.

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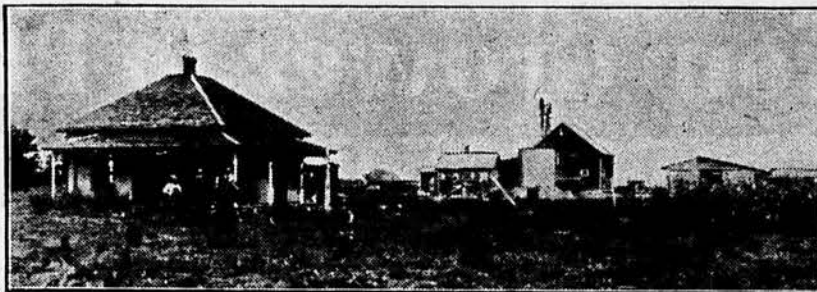
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## Out Gunning for the Rabbits

**A Little Snow Made the Hunting Good—Farmers Pick Up Extra Dollars by Trapping Fur Bearers**



The Home of George Syme, Nine Miles Northeast of St. Francis, Cheyenne County, Kansas. We Like to Show the Homes of Our Friends.

**J**ANUARY will be over with mighty little winter weather, if the month so far is a portent. Stock is in good condition, and there is enough feed on hand, but farmers are selling all that they do not absolutely need.

It is ideal weather for hunting and everyone seems to be taking advantage of it. There are a great many jack rabbits, and trapping is better than usual. About the 15th a blanket of snow covered the state thinly, and the wheat needed the moisture.

**Chautauqua County**—We had nice weather until about January 12, then had a nice little snow. Farmers are beginning to prepare for spring work. Eggs are very scarce. The rabbit is helping to reduce the high cost of living. Loose hay \$6.—H. B. Fairley, Jan. 20.

**Wabaunsee County**—A light snow fell January 15, which made a good covering for the wheat. Farmers are busy hauling their summer wood. Ice houses are all filled with ice of good quality. There is no disease among the stock. Eggs 35c; butter 33c.—Henry Lesline, Jan. 20.

**Cherokee County**—We have been having fine weather until the last few days. We had a hard freeze. It continues dry, which is very hard on wheat. Fat hogs are scarce. Most stock is doing well. Not much wheat is left in the country. Hogs \$10; hay \$12 a ton.—A. E. Moreland, Jan. 20.

**Jackson County**—Weather is fine, but a little too dry for wheat. Has been a fine winter for feeding stock. Not many cattle are being fed. Few farms are changing hands. There is a good demand for rental farms. Hogs \$10; corn 90c; alfalfa \$8 to \$14 a ton.—F. O. Grubbs, Jan. 20.

**Nemaha County**—This winter has been ideal for feeding livestock, altho the high priced corn will make feeding unprofitable. Wheat is in good condition except some late sown fields which have been damaged some. All livestock is healthy and wintering fine. Corn 90c.—C. W. Ridgway, Jan. 19.

**Johnson County**—The first two weeks of January were mild and nice, but on the 14th we got 2 inches of snow and almost zero weather, which continues to the present. Two inches more fell January 16. All stock is in good condition, and there is plenty of feed on hands.—L. E. Douglas, Jan. 20.

**Allen County**—We are having fine weather. Stock is doing nicely and feed is holding out well. Stock water is a little scarce. Some plowing is being done during the first part of January. All kinds of grain are high and scarce. Not as many sows have been bred as usual for spring pigs. Corn 90c; oats 60c.—George O. Johnson, Jan. 19.

**Clay County**—Wheat ground is in good condition. Roads are fine and people are making good use of them to haul grain and hogs, ice, wood and feed. The hens are on a strike for better price for eggs to offset the housewives' boycott on eggs. Cattle are looking unusually well for this time of year and rough feed is plentiful.—H. H. Wright, Jan. 20.

**Gove County**—A blanket of snow 2 or 3 inches deep covers the ground at this time. Ideal weather for hunting and everyone seems to be taking advantage of it. There are a great many jack rabbits. Trapping has also been better than usual this winter. There are many skunks. Stock is doing nicely. Few sales. Prices are high.—H. W. Schablie, Jan. 19.

**Bourbon County**—We are having fine weather since the cold wave. It is very dry here. We need a good rain. Farmers are hauling water. Some public sales are being held. Stock is doing well. Plenty of feed is in sight. Prices of everything are high. Pig crop will be short next spring. Eggs 37c; butter 30c; potatoes \$1.50; hens 15c; turkeys 19c; geese 1 1/4c; hogs \$9.50; corn \$1; oats 50c.—R. R. Riggs, Jan. 14.

**Lyon County**—We are having real winter weather with 3 inches of snow, which is good for the wheat. Wheat is doing well. We have had some moisture from month to month to keep it in good condition. Good alfalfa hay is being sold to shippers and alfalfa mills. Stock is in good condition. No shortage for feed in the country. High cost of living still continues. Oil leases have been good for the land owners.—E. R. Griffith, Jan. 19.

**Neosho County**—We are having splendid weather for stock, which is doing well. Snow is nearly all gone. Plenty of feed on hand and lots of baled hay is going to market at \$7 to \$8 a ton. A great deal of ground has been plowed during the fall and winter. Nearly all alfalfa ground has been plowed. All farm products are too high. Eggs 36c; butter 35c; corn \$1; oats 65c to 70c; potatoes \$2; apples \$1.75; hogs \$10.—A. Anderson, Jan. 20.

**Cowley County**—A nice blanket of snow has covered the ground for the last five days, which will be a great benefit to the wheat. Wheat needed moisture badly. More

fall and winter plowing than usual has been done. One car of Texas red oats was brought in by the Farmers' Union at 72 cents a bushel. Stock of all kinds are looking well. Prairie hay \$12 to \$14 a ton, alfalfa \$16; corn 90c; wheat \$1.80; potatoes \$2; hens 14c; eggs 45c; butter 30c; hogs \$10.65.—L. Thurber, Jan. 20.

**Kingman County**—Wheat in southern Kingman county is in good condition. In some other parts it is not so promising. There is plenty of moisture. Two or more inches of snow which fell January 15 is fine for growing wheat. Farmers are feeding mostly wheat straw because other feed is very scarce. Stock is doing fairly well on it. Fat hogs and cattle are very scarce. There is much sickness and many deaths among the people. Wheat \$1.85; corn \$1.02; hogs \$10; butterfat 34c; eggs 30c; hens 13c.—H. H. Rodman, Jan. 19.

## Full Value From Corn

BY W. H. COLE  
Cowley County

In an effort to get full value out of the corn, we are grinding it all. One frequently hears a farmer remark that "he lets his hogs do their own grinding for they have more time than he has." This may be all right but when corn is costing around the dollar mark a feeder must get all the good there is in it, and we believe that grinding it is the surest way to do that. A 4-horsepower gasoline engine is used to operate a duplex mill with 5-inch burrs, and this outfit will grind about 15 bushels an hour.

The few shotes which are being kept on this farm have not been doing very well since the cold weather set in. They seem to have a fairly good appetite, but they too frequently prefer their warm nest to feed.

Recently, while passing along the public road on our way homeward from town, we had the unexpected pleasure of seeing a prairie chicken at close range. These birds, once numerous, are now nearly extinct, at least locally. The last one we saw previous to this was about six years ago. Owing to their constant danger they do not seem to tarry long in one locality tho we understand that in a large pasture near here there is a covey of about a dozen. We have heard farmers who settled in this state in an early day relate how numerous the prairie chickens used to be. Their scarcity now only goes to show what the free use of a gun will do toward exterminating a useful, beautiful and harmless bird.

The several inches of snow which fell here recently was a great benefit to the wheat as moisture was needed to keep it growing. In some fields, where the ground was not any too well prepared before seeding, the wheat was turning yellow in spots and tho these spots were not of very great size their presence suggested the need of more moisture. Too often when a snow falls in Kansas the wind piles it up along the hedgerows, but the recent snow fell without wind and lay like a white blanket over everything. Such a snow is sure to be a benefit, and while it does not afford much moisture a few warm days will make it evident that the wheat was helped greatly.

## More Farm Sales

A. D. Jellison of Junction City purchased the Mike Wandler farm near Wreford for \$44,000, and at once sold it to Robert Adams, of Eastern Geary, taking in exchange the Adams 720-acre farm on Humboldt creek. The Wandler farm consists of 550 acres.

J. B. Callen and George Roesler of this city, purchased the Zipper farm of 500 acres 5 miles south of Junction City.

## A Substitute For Gasoline

**Not a New Discovery, But Just As Important. Putting Common Kerosene to Work Solves the Problem of Cheaper Fuel for Farm Power.**

BY A KANSAS FARMER BOY

The high price of gasoline for farm power need not worry farmers any longer. There seems to be no relief in sight as far as gasoline is concerned and a return to low prices is out of the question for quite a while to come, according to men who know. The task therefore, was to get fuel that would combine economy with dependability and thus solve a problem that was really serious to the farmers of America.

It remained for George E. Long, a Kansas farmer boy, but now a large successful engine manufacturer in this country, to bring out a kerosene engine which will develop more power from 6c kerosene than any gasoline engine will develop from 20c or 25c gasoline. Mr. Long has accomplished this in a genuinely practical manner. His successful kerosene engine is especially designed and developed to meet the needs of any farmer and the work he may have for an engine to do. His engine also uses gasoline and there are no extra parts to put on or take off to use either fuel.



The great disadvantage of so-called kerosene engines on the market thus far, has been their failure to operate under no load or a half load as steadily as under a full load. Mr. Long positively guarantees his engine to operate with the same ease and efficiency under no load or half load as under a full load and thus meet the demands of the farmer who wishes to operate a saw rig where the load is constantly changing. This guarantee is the strongest ever made by any engine manufacturer—it stands alone. No other engine manufacturer has made it.

This successful kerosene engine is easy to start, easy to keep going and easy to operate by the man who has had no engine experience. Having fewer parts, it is easier to understand and operate, and naturally has less wear. There are no extra tanks or added equipment. The engine is simplicity itself and one that will be welcomed by the man on the farm or in the shop who has never operated an engine.

War prices have had but little effect on Mr. Long's big factory at Ottawa, Kansas. An enormous output enables him to keep engine prices down low. Mr. Long has proved that the saving in fuel in a year may easily more than pay for the engine. The Ottawa Kerosene Engine has been especially designed for farm and shop use. The 5 H-P size sells for only \$86.95 and his 7 H-P size for \$113.50. Other sizes at relatively low prices. All sizes are so simple and easy to operate that Mr. Long will send any size engine on trial and give any farmer or business man the advantage of easy terms if desired.

Mr. Long recently prepared a book, "How to Judge A Good Engine", that should be of great interest to any one interested in gasoline or kerosene engines and power farming. This book will be sent free and all postage paid to anyone who is considering the purchase of an engine of any kind. Address Geo. E. Long, Ottawa Manufacturing Co., 554 King Street, Ottawa, Kansas.—Advertisement.



## Corn Hugs the Dollar Mark

(Owing to the fact that this paper is necessarily printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication.)

Grain prices made substantial advances last week, corn futures reaching new high levels, the best prices for May wheat were about 5 cents under the extreme top level reached last November. Advances were not well maintained.

Continued foreign buying and the growing belief that exporters have enough wheat purchased to absorb all the country's theoretical surplus accounted for the upturn in the wheat market. An additional strengthening influence was the destruction by a German raider of a score or more of British vessels, some of which were loaded with grain from Argentina, destined for Europe.

This news had an unsettling influence on the trade for a time as it was assumed that the activities of the German commerce destroyer might tend to restrict shipments from this country, but vessels continued to clear, both from the United States and from Argentina, despite the risks involved.

Rumors that a German raider had appeared in the Gulf of Mexico, threatening shipments out of Galveston and New Orleans, caused some anxiety.

Foreign buying was apparently somewhat smaller than in preceding weeks, but there continues to be a persistent export demand, and European advances contain nothing to indicate that Europe will not need all the wheat that can be obtained in this country between now and harvest, even tho it should turn out that the surplus materially exceeds the official estimates.

Primary receipts of wheat are continuing relatively large, considering the size of the crop.

Kansas City receipts last week were almost as large as a year ago and nearly double those of two years ago. The total at five markets was only 20 per cent less than a year ago.

Last Monday's visible supply statement showed a decrease of 3,385,000 bushels, leaving a total of 53 1/2 million bushels, as compared with 59,897,000 bushels a year ago, when the maximum was reached.

Flour business probably is as dull as it was ever known to be. All over the country there is complaint that buyers are holding off and mills are grinding less wheat than a year ago. Despite this, however, the demand for carlots is sufficient to maintain large premiums over the May delivery.

Corn for May delivery sold up about 4 cents to new high levels, \$1.02 1/2 in Chicago and 99 1/2 @ 99 1/2 in Kansas City. The full advance was not maintained, but the market gives every evidence of stability around a dollar a bushel.

Receipts continue below expectations. Three markets received 15 per cent less than a year ago and about half as much as two years ago.

Apparently there is only one thing that will cause any important setback—a substantial increase in receipts. Country elevators are said to be full in many sections of Nebraska, Iowa and Illinois, and only a scarcity of cars prevents an increased movement to market centers. The railroad situation is said to be improving somewhat. Cars always become more plentiful at this time of year.

Despite the persistent strength of the market a good many traders believe that the economies on the farms resulting from a comparatively mild winter free from severe storms, and the extensive marketing of livestock before it is fat will result in a largely increased supply of corn available for the central markets.

Last week brought new high record prices to the livestock market in Kansas City. Lambs sold up to \$14.10, hogs up to \$11.05 and cattle up to \$11.50.

The top price for lambs is the highest on record, and for hogs the highest ever paid in January and within 10 cents of the record price last September. Steers sold as high as \$11.50 twice previously this month, and in December fancy Christmas beefs brought \$12. Cost to killers live weight is greatly increased, buyers say, by the low killing percentages resulting from economy in feeding. The top lambs had been fed for 60 days, the steers less than four months and not many regular fat-back hogs were seen during the week.

Commission men believe the market is in a firm position and will show further strength rather than declines as the season advances.

Notwithstanding the high prices live weight and low killing percentages, dressed meat men appear eager for supplies. The call for numbers is increased by the lack of pounds. High prices for fat steers have encouraged feeders to buy good quality 950 to 1,200-pound steers for a short feed. They cost \$9.75 to \$10.20. Some feeding lambs brought \$13.25 to \$13.40, or only 70 to 75 cents under top prices for fat lambs.

Early in the week the cattle market in Kansas City was 10 to 15 cents higher. It showed some weakness and became steady later, with no important net change in prices of heavy steers. Medium and light weight grades retained an advance of 10 to 15 cents. Most of the steers sold at \$9 to \$10.50. Colorado beet pulp steers brought \$10.40, and Idaho hayfeds \$9.25 to \$9.65. On the quarantine side the top was \$9. Butcher cattle were quoted strong to

15 cents higher. Good heavy cows were scarce. "Canner" cows declined 15 to 25 cents. Veal calves were quoted up 25 to 50 cents, tops selling up to \$12. Bulls were quoted firm and sold mostly at \$5.75 to \$7.

Heavy feeders and choice stockers were up 15 to 25 cents and the plainer grades sold slowly. Receipts were fairly liberal. Increased demand is expected as the grass season draws nearer.

Hog prices rose 30 to 40 cents last week and the high levels are without precedent for the mid-winter season, or, indeed, for any time except when the market rose momentarily to \$11.15 last September. Receipts are showing a tendency to diminish. Last week the five Western markets received about 30,000 fewer hogs than the preceding week and 35,000 less than a year ago. Kansas City receipts are drawn on a larger area than usual. Arrivals from Louisiana, Arkansas, Arizona, Montana and Oregon were included in last week's offerings. Nebraska is contributing the best quality and most weight.

Receipts of livestock last week, with comparisons, are here shown:

	Last week.	Previous week.	Year ago.
Cattle—			
Kansas City .....	39,750	43,250	38,050
Chicago .....	64,400	67,500	55,500
Five markets .....	167,000	183,550	147,450
Hogs—			
Kansas City .....	55,150	57,100	53,600
Chicago .....	272,000	269,000	289,000
Five markets .....	571,500	579,800	591,500
Sheep—			
Kansas City .....	28,750	42,525	44,475
Chicago .....	68,000	76,000	89,000
Five markets .....	176,000	206,075	225,375

## To Grow Good Fruit

(Continued from Page 1.)

home orchard from Delicious trees, and it is a real calamity not to include at least some of this desirable variety. The adaptations of most of the ordinary fruits have been fairly well worked out in Kansas. Full information about these adaptations in the different localities can be obtained from Albert Dickens of Manhattan, professor of horticulture in the Kansas State Agricultural college.

If we get an appreciation that fruit is a valuable crop which needs care and will return a good profit for this attention a big step will have been taken in Kansas. It certainly is a movement that is much needed. Farm life in Kansas can never be the most satisfactory until the home and social conditions are absolutely satisfactory. An abundant supply of fruit, produced on the home farms, is an important factor in this.

## Be Careful Whom You Pay

The attention of city marshals and subscribers is again called to the fact that they should be careful to whom they pay their subscriptions for the Daily Capital and the Farmers Mail and Breeze. There are still a few dishonest solicitors in Kansas. The following district managers are alone authorized to solicit subscriptions. Do not pay subscriptions to anyone except those whose names are mentioned below.

Allen, J. E. Butler; Anderson, H. O. Sare; Atchison, J. H. Brown; Barber, J. M. Watson; Barton, —; Bourbon, L. I. Lautz; Brown, B. M. Butters; Butler, Thos. Tunstall; Chase, Walter Wright; Chautauqua, G. L. Murphy; Cherokee, —; Cheyenne, R. D. Wolbert; Clark, —; Clay, C. A. Muck; Cloud, L. N. St. Cyr; Coffey, W. G. Fish; Comanche, M. O. Parcel; Cowley, J. W. Coverdill; Crawford, E. A. Hughes; Decatur, —; Dickinson, J. E. Gish; Doniphan, —; Douglas, W. H. Vaughn; Edwards, D. W. Stratton; Elk, G. L. Murphy; Ellis, Thomas Gibbs; Ellsworth, E. E. Jones; Finney, —; Ford, D. W. Stratton; Franklin, A. H. Dodge; Geary, B. F. Sweet; Gove, A. K. Trimmer; Graham, H. M. Shaw; Grant, —; Gray, J. K. Herron; Greeley, —; Greenwood, C. H. Drehmer; Hamilton, —; Harper, E. Huff; Harvey, D. R. Hawley; Haskell, —; Hodgeman, —; Jackson, John E. Davis; Jefferson, W. M. Coleman; Jewell, E. V. Nelson; Johnson, W. H. Vaughn; Kearny, —; Kingman, E. Huff; Kiowa, D. W. Stratton; Labette, G. L. Murphy; Lane, —; Leavenworth, H. J. Hargrave; Lincoln, E. E. Jones; Linn, Hugh Bayless; Logan, B. O. Brown; Lyon, C. H. Drehmer; McPherson, Geo. McClintick; Marion, Walter Wright; Marshall, M. J. Glickerson; Meade, —; Miami, A. H. Dodge; Mitchell, L. N. St. Cyr; Montgomery, G. L. Murphy; Morris, Walter Wright; Morton, —; Nemaha, Edw. W. Fickinger; Nebraska, B. Y. Edeleu; Ness, —; Norton, —; Osage, W. E. Bush; Osage, M. D. Duffey; Osborne, E. E. Jones; Ottawa, J. E. Gish; Pawnee, I. V. Stewart; Phillips, —; Pottawatomie, B. F. Sweet; Pottawatomie, John E. Davis; Pratt, Alvin Phelps; Rawlins, B. D. Wolbert; Reno, J. K. Herron; Republic, L. N. Hendrix; Rice, J. K. Herron; Riley, R. F. Sweet; Rocks, W. A. Barry; Rush, —; Russell, Thomas Gibbs; Rutledge, C. G. Leander; Scott, —; Sedgewick, D. R. Hawley; Seward, J. O. McMurry; Shawnee, W. E. Bush; Shawnee, H. J. Hargrave; Sherman, R. D. Wolbert; Sheridan, A. K. Trimmer; Smith, J. W. Pette; Stafford, Alvin Phelps; Stanton, —; Stevens, —; Sumner, Thos. Tunstall; Thomas, —; Trego, H. M. Shaw; Wabunsee, W. E. Bush; Wallace, B. O. Brown; Washington, W. A. Scruby; Wichita, —; Wilson, Karl F. Spellman; Woodson, E. Conard; Wyandotte, H. J. Hargrave;

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CAPPER'S WEEKLY, DEPT. H. T. 4 TOPEKA, KANSAS



## 12 Flowering Shrubs

The Largest and Most Magnificent Collection ever Offered. One year size, they will bloom the same year planted and every year after, surrounding your home with a fragrant sea of ever-changing fragrant bloom. This beautiful collection is

The Farmers Mail and Breeze's Gift to You

The shrubs we send you are about a foot high, the best size to plant. They grow rapidly, increasing in beauty from year to year, attaining in a short time the following size:

Golden Bell. Very tall and beautiful. 12 to 16 ft.  
Barberry. Neat, dense and spherical. 4 to 6 ft.  
Deutzia. Profuse, showy double bloomers. 6 to 8 ft.  
Sweet Shrub. Quick growers, spicily fragrant. 4 to 5 ft.  
Snowball. Stately and imposing. 6 to 8 ft.  
Rose of Sharon. Heavy variegated bloom. 10 to 12 ft.

Nine Months of Fragrant Flowers in Every Year Your home will be surrounded by the year, except for a few months in the winter. Very early in the year, even before the snow is gone, the Golden Bells are covered with rich golden flowers. Shortly afterward the Barberry blazes out in a mass of canary, quickly followed by the delicate yet massive rose blooms of the Deutzias. Midsummer brings the rich chocolate red flowers of the Sweet Shrubs, which bloom at intervals until snow. Then the Snowballs, with their stately white flowers and finally the luxuriant bloom of the Rose of Sharon is added to the scene. Even when winter's icy touch banishes the flowers, the brilliant red and yellow, brown and gold of the foliage, and the red berries of the Barberry (which remain through the winter) remind us that in but a few short months the flowers will return in greater beauty.

## Our "12 Shrub" Offer

We will send this collection of Twelve Hardy Shrubs, Postpaid, as a Premium with a One-Year Subscription to FARMERS MAIL AND BREEZE at \$1.00 and 30 cents additional, or \$1.30 in all. This covers all charges, for both the magazine and the Shrubs. CUT THIS AD OUT, write your name and address below, and send with \$1.30 to

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Gentlemen—I enclose \$1.30 for FARMERS MAIL AND BREEZE One Year and the 12 SHRUBS as listed in this ad, all charges paid.

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## Our 12 Shrub Collection

This big collection consists of these hardy one-year shrubs.

2 Golden Bell (Forsythia)  
2 Thunberg's Barberry  
2 Deutzias  
2 Sweet Shrub (Cal'thus)  
2 Snowball Hydrangeas  
2 Rose of Sharon

They are securely packed, and sent to you Postpaid, with full instructions for planting.



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SINGLE COMB ANCONA COCKERELS \$1.50 each. Emil Olson, Morganville, Kan.  
ANCONAS, AMERICAN LAYING STRAIN, pullets and hens \$2.00. Rose Comb pullets, cockerels \$3.00. C. L. Martin, 1172 High, Topeka, Kan.

## BRAHMAS.

LIGHT BRAHMA COCKERELS \$3.50 TO \$5.00. M. E. Ostertag, Independence, Kan.

## CORNISH.

FINE DARK CORNISH COCKERELS \$3 each. O. E. Dawkins, Ottawa, Kan.

## COCHINS.

BUFF COCHIN BANTAM COCKERELS \$1.25 each. Ruth Church, Burlington, Colo.

## DUCKS.

RUNNER DUCKS, FRISCO WINNERS. Burt White, Burlingame, Kan.  
FAWN AND WHITE RUNNER DUCKS \$1. Dozen \$10. Angus Kay, Clifton, Kan.  
GOOD BUFF ORPINGTON DRAKES \$1.25, \$2.50 each. John A. Huber, La Crosse, Kan.  
PEKIN DUCKS—2 DRAKES \$1.25 EACH. 5 ducks \$1.00 each. R. E. Davis, Holton, Kansas.  
FOR SALE—FULL BLOOD MAMMOTH Pekin drakes. Mrs. John W. Henry, R. 2, Hoxie, Kan.

## GEESE.

WHITE EMBDEN GANDERS, \$2.00 TO \$3.00. Frank Reamer, Holton, Kansas, Rt. 6.  
TOULOUSE GESE, SIZE AND QUALITY. Winners Kansas City Poultry show 1916. Mary O'Mara, Colony, Kansas.

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PURE WHITE AFRICAN GUINEAS, \$3.50 trio. Hens \$1.00. Roosters \$1.50. Mrs. Perry Myers, Fredonia, Kan.

## LANGSHANS.

WHITE LANGSHAN COCKERELS, WM. Wischmeier, Mayetta, Kan.  
WHITE LANGSHAN COCKERELS \$2. Gertrude Van Alstine, Fredonia, Kan.  
BLACK LANGSHAN COCKERELS \$1.50 each. Gertrude A. Black, Baldwin, Kansas.  
FOR SALE—THOROUGHbred BLACK Langshan cockerels \$2.00. R. F. Montgomery, Oketo, Kan.  
FARM RAISED PURE BRED WHITE Langshan cockerels, pullets, eggs. Buff Orpington drakes and eggs. Mrs. Geo. McLean, Lane, Kan.  
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ROSE COMB BROWN LEGHORNS. MRS. Ida Standiford, Reading, Kan.  
ROSE COMB BROWN LEGHORNS \$1.25 and up. Otto Borth, Plains, Kan.  
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PURE SINGLE COMB WHITE LEGHORN cockerels \$2. J. E. Gish, Manhattan, Kan.  
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SINGLE COMB WHITE LEGHORN COCKERELS. Dave Baker, Conway Springs, Kansas.  
ROSE COMB BROWN LEGHORN COCKERELS, each \$1.00. Elizabeth Evans, Wilsey, Kan.  
35 SINGLE COMB WHITE LEGHORNS, cockerels \$2.50 up. R. E. Davis, Holton, Kan.  
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FOR SALE—S. C. WHITE LEGHORN cockerels (Young strain). Vira Bailey, Kinsley, Kan.  
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EXTRA FINE SINGLE COMB WHITE Leghorns, cockerels \$2-\$3. H. Vinzant, McPherson, Kansas.  
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FAMOUS WINTER LAYING S. C. W. LEGHORNS of high quality. Cockerels, chicks guaranteed. Geo. Patterson, Lyndon, Kan.

252 EGG LEGHORNS, ABSOLUTELY PURE Tom Barron stock. Choice cockerels sired by 252 egg imported cock \$3.00 each. Braun-hurst Farms, Gridley, Kan.

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PURE SINGLE COMB WHITE LEGHORN cockerels at \$1.00 each from good stock. Mrs. John Sothers, Scandia, Kan.  
L. D. GOOCH, SEWARD, KANSAS, WILL sell R. C. Brown Leghorn cockerels \$1.25 each. Would also like the address of some one who breeds Lincoln sheep.  
"SUNNY SLOPE RANCH," HOME OF Grant's heavy laying Single Comb White Leghorns. Guaranteed stock, fertile eggs, lusty chicks. Chas. Grant, Elk Falls, Kan.

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SINGLE COMB BLACK MINORCAS, STOCK, eggs and baby chicks. F. Kremer, Manchester, Okla.  
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BLACK, WHITE AND BUFF MINORCAS. Breeding stock cheap. C. H. Bartholomew, Wichita, Kan.  
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CHOICE BUFF ORPINGTON COCKERELS and pullets. Mrs. F. Scott, Chapman, Kan.  
BUFF ORPINGTON COCKERELS, \$1.50 and \$2.00 each if taken soon. Nellie Lawyer, Grenola, Kansas.  
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FINE WHITE ORPINGTON COCKERELS—some from winners—two to five dollars. Mrs. Helen Lill, Mt. Hope, Kan.  
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FINE WHITE ROCK COCKERELS, \$2. N. J. Adams, Onelda, Kansas.  
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FINE RINGLET BARRED COCKERELS. Eggs. Chicks. Edward Hall, Junction City, Kan.

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BARRED PLYMOUTH ROCKS; COCKEREL \$1.25 to \$2.00. Fred Pettier, Concordia, Kan.

BUFF ROCK EGGS FOR HATCHING. Also a few pullets. William A. Hess, Humboldt, Kan.

BARRED ROCK COCKERELS OF PURE breeding for sale. L. Thomas, Wetmore, Kan.

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FOR SALE—FINE LARGE WHITE ROCK cockerels \$1.50. Helen Mallam, Baileyville, Kansas.

WHITE ROCK COCKERELS \$1 TO \$5. Also eggs and baby chicks. W. H. Slyver, Minneapolis, Kan.

PURE WHITE ROCK COCKERELS AND pullets \$1.50 each. Mrs. L. S. Whitney, Fairview, Kansas.

QUALITY BUFF ROCKS, COCKERELS \$2.00 each. Hens \$12.00 doz. Mrs. Ike Saunders, Elk City, Kan.

A FEW SELECTED BARRED ROCK COCKERELS, fancy narrow barring, bred from excellent layers. \$2.00 to \$5.00. George Sims, LeRoy, Kan.

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CHOICE BARRED PLYMOUTH ROCK cockerels and pullets \$2.00 to \$3.00 each. E. Leighton, Effingham, Kan.  
BARRED ROCKS, COCKERELS \$2.50. ONE yearling cock \$3.00. Hens \$1.25. Pullets \$1.50. Ullsh Brothers, Peabody, Kan.  
BARRED ROCK COCKERELS FOR SALE—scored and unscored birds. Price \$2, \$3, \$4, \$5 each. Geo. Haas, Lyons, Kan.  
BARRED ROCKS—68 PREMIUMS. Topeka, Manhattan, Clay Center, Denver. Mattie A. Gillespie, Clay Center, Kan.  
BARRED ROCK COCKERELS, FINE PREMIUM stock, large bone. \$2.00 to \$5.00. Mrs. A. M. Markley, Mound City, Kan.  
IF IN NEED OF BARRED ROCKS, WRITE me. Twenty-five years, breeder and exhibitor. Frank McCormack, Morrowville, Kan.  
BARRED ROCKS, PRIZE WINNERS. A few choice cockerels for sale. Price \$2.00, \$3.00 and \$5.00. Fred Hall, Lone Wolf, Okla.  
WHITE ROCK COCKERELS RIGHT IN shape, size and color \$2 to \$4. From prize winning stock. Mrs. Chas. Parker, Preston, Kan.  
"RINGLET BARRED ROCKS" WINNERS wherever shown. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kansas.  
RINGLET BARRED ROCK COCKERELS \$1.50 and \$2.00 each. My pens are from E. B. Thompson direct. Mrs. M. T. Arnold, Piedmont, Kan.  
DUFF'S BIG TYPE BARRED ROCKS. Stock all sold. Booking orders for eggs future delivery. Write for prices. Chas. Duff, Larned, Kan.

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WHITE ROCKS BRED FOR LAYING AND Standard points, choice chicks, for sale, also few cock birds from \$2.00 to \$4.00 each. Frank Lott, Danville, Kan.

PETTIS' BARRED ROCKS—WINNERS Missouri State Show, 1916. Heavy laying strain. Choice cockerels \$2 to \$5. Mrs. P. A. Pettis, Wathena, Kansas.

A FEW GOOD BARRED ROCK COCKERELS. Also eggs for hatching from our winter laying strain. Valuable circular free. O. E. Skinner, Columbus, Kan.

ARISTOCRAT & BRADLEY BARRED Rock cockerels of prize winning stock. Good size, shape and barring. Etta Pauly, Junction City, Kan., R. D. No. 4.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Have some choice chicks and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.

TOP NOTCH BARRED ROCK COCKERELS \$2 to \$5. Winners of the blue wherever shown. Guarantee satisfaction or money back. James H. Parsons, Quinter, Kan.

WHITE ROCKS SOLD ON APPROVAL, free range, snow white cockerels \$3 and \$5. First cockerel Hutchinson and Wichita shows. Good laying strain. I. L. Heaton, Harper, Kan.

LINDAMOOD'S BARRED ROCK COCKERELS are better than ever, nicely marked, strong boned. Order now for the coming season. Prices \$3 to \$5 each. Sent on approval. C. C. Lindamood, Walton, Kan.

BARRED ROCK CKLS \$2, \$3, \$5 EACH; mated trios \$6, \$9. Pens \$10, \$15. Large bone, clear color. Winners and layers. Returned at my expense if not satisfactory. J. M. Detwiler, Mitchell, S. Dak., R. 4.

"ROYAL BLUE" AND "IMPERIAL RINGLET" Barred Plymouth Rock cockerels and pullets \$300 for sale; both matings. Write for prices. Satisfaction guaranteed. A. L. Hook, North Willow Poultry Ranch, Coffeyville, Kan.

## RHODE ISLAND WHITES.

EXCELSIOR STRAIN RHODE ISLAND Whites. Cockerels and eggs. Isa. Conger, Iola, Kansas.  
PURE BRED RHODE ISLAND WHITE cockerels. Reasonable. Cecil Calvert, Quinter, Kansas.  
PITTSBURG WINNERS, EGGS \$1.50, \$2.00, and \$7.50 per 15. Hatch of nine guaranteed. Early hatch from winter layers bring winter layers. Sidney Linscott, Holton, Kan.

## RHODE ISLAND REDS.

CHOICE R. C. RED CKLS. MRS. JAS. Crocker, White City, Kan.  
PURE BRED ROSE COMB RED COCKERELS \$2.00 each. Ford Brown, Shields, Kan.  
FOR SALE—ROSE COMB RED EXHIBITION cock. C. E. Cronhardt, Hutchinson, Kan.  
CHOICE RED COCKERELS \$4.00. EGGS \$100-\$400. Mrs. Henry Williams, White City, Kan.  
ROSE COMB BARRED ROCK COCKERELS \$3 to \$5. Pullets \$1.50. Vesta Knevels, Natoma, Kansas.  
WELL BRED FARM RAISED SICKLE Comb Reds, \$2 each. T. H. Smallwood, Fort Scott, Kan.

HAVE A FEW ROSE COMB RED COCKERELS left, \$2 and \$3. Mrs. J. N. McKinney, Baldwin, Kansas.

20 BEST OF OUR VIBERT EGG-BLOOD R. C. Red cockerels left. Reasonable. Earl Clayton, Americus, Kan.

FOR SALE: SINGLE COMB RHODE ISLAND Red cockerels, \$3.00 to \$5.00 each. E. H. Durham, St. John, Kan.

ROSE COMB REDS, EGGS FOR HATCHING all season, from prize winners \$5.00 per 100. David Winchell, Unionville, Mo.

S. C. RED EGGS, CHICKS AND COCKERELS. State & National quality. Circular free. Thos. D. Troughton, Wetmore, Kan.

226 EGG STRAIN S. C. RHODE ISLAND Red cockerels \$1.50, \$2.50 each. Large, husky, dark red fellows. Big breeders would ask a great deal more for these birds. Frank DeTar, Edgerton, Kan.

## RHODE ISLAND REDS.

SINGLE COMB RED COCKERELS \$3, \$5, \$7, \$8. Hatching eggs \$2 setting. Maple Hill Poultry Farm, Lawrence, Kan., R. No. 6.  
R. C. REDS, LEADING STRAIN STANDARD requirements. "Brilliant deep, dark, classy Reds." \$1, \$2 left. Charles Sigle, Lucas, Kan.

CHOICE REDS, BOTH COMBS, \$1.50 TO \$5.00. Chix 15c. Eggs \$1.25, \$5.00-100. 240 Trusty Incubator \$12.00. Fannie Goble, Healy, Kan.

THOROUGHbred RED COCKERELS \$1 to \$5. Both combs. Good show record, satisfaction guaranteed. T. N. Marshall, La Cygne, Kan.

DARK ROSE COMB RHODE ISLAND RED cockerels from good laying strain \$2.00, \$2.50, \$3.00 and \$3.50 each. E. G. Rowland, Peabody, Kan.

CHOICE ROSE COMB RHODE ISLAND Red cockerels \$1.50 each for one; more than two \$1.25 each. Charles S. Black, Baldwin, Kansas.

ROSE COMB RED COCKERELS \$2 TO \$5. Won first pen at State Show three years straight. Satisfaction guaranteed. Morris Roberts, Holsington, Kan.

GOOD BREEDING S. C. RED COCKERELS, sired by my first prize World's Fair cockerel. \$2.50 and \$5.00 each. Guaranteed to please. H. A. Meier, Abilene, Kan.

FOR SALE—STOCK AND EGGS, SINGLE Comb Rhode Island Reds. Winners at Hutchinson and Wichita shows. Prices gladly furnished. Joe Brada, Great Bend, Kan.

ROSE COMB RED COCKERELS OR PULLETS \$2.50. Bred from prize winners big shows in Kan., Missouri and Okla. Blood red with beautiful lures. Red eyes and red pigment on legs. Three firsts at State Fair this fall. R. W. Baldwin, Conway, Kan.

100 ROSE COMB RHODE ISLAND RED cocks and cockerels sired by roosters costing \$15 to \$35; \$2, \$3.50, \$5 and \$7.50 each. A few higher. Order at once, they will go fast. Our pens mated for 1917 are the best we ever had. W. R. Huston, Red Specialist, Americus, Kan.

FOR SALE: A LARGE NUMBER OF S. C. Rhode Island Reds, both sexes, from prize winning pens. Birds good enough for any show east or west. Price a matter of correspondence. Do not fail to get my new catalog and \$50.00 reward offer. J. M. Springer, Stillwater, Okla.

FARM RANGE ROSE COMB R. I. REDS \$1 each. Also high scoring cockerels up to \$5.00. My first pen is composed of prize winning pullets at Southwest Poultry show mated to quality bred cockerel. Eggs \$3.00 for 15—\$15 hundred. Range eggs \$1.00 for 15—\$6.00 hundred. Also Wild Mallard duck eggs in season. Let me book your order now. A. Brown, Pratt, Kansas.

## TURKEYS.

LARGE BOURBON TURKEYS, TOMS \$5. Hens \$4. W. H. Hansen, Abilene, Kan.

BOURBON RED TURKEYS, TOMS \$5. HENS \$3. Mrs. Bert Fick, McAllister, Kansas.

PURE BRED M. B. TURKEYS, LARGE, prize winners. Sam Caughey, Asherville, Kan.

PUREBLOOD BOURBON RED TURKEYS. Toms \$4. Hens \$3. M. E. Noonan, Greenleaf, Kan.

MAMMOTH WHITE HOLLAND TURKEYS for sale. Mrs. Ada Poindexter, Medicine Lodge, Kan.

WHITE HOLLAND TURKEYS, TOMS \$4. Hens \$3. Mrs. Jane Thompson, Cambridge, Kan.

BOURBON RED TURKEYS FOR SALE. Toms five dollars. Mrs. H. Passmore, Wayne, Kan.

NARRAGANSETT, BOURBON RED, WHITE Holland turkeys for sale. Frank Jones, Alma, Kansas.

BOURBON RED TOMS, LARGE, WELL built (Western Breed) \$5.00 each. W. T. Dunstone, Laird, Kan.

BOURBON RED TOMS, LARGE WITH splendid color. \$5.00 each. E. Lloyd Rodkey, Charleston, Okla.

EXTRA LARGE PURE WHITE HOLLAND hens \$4.00. Toms \$5.00 and \$6.00. Mrs. Will Jones, Wetmore, Kan.

PURE BLOOD MAMMOTH TURKEY TOMS, from prize winners, extra quality. Mrs. Ellen Dally, Scottsville, Kan.

GIANT BRONZE TURKEYS—PRIZE HENS Tom, Madison Square Garden winner. Ringlet Barred Rocks. Ed Lockwood, Kinsley, Kan.

## SEVERAL VARIETIES.

BOURBON TURKEYS, SINGLE COMB, White Orpington and Brown Leghorn cockerels. Emma Ahlstedt, Roxbury, Kan.

COLUMBIAN AND WHITE WYANDOTTE cockerels \$1 and up. White Holland turkey tom \$4.50. Hens \$3.00. Bertha V. Chacey, Meriden, Kan.

2,949 COCKERELS, HENS AND PULLETS, 49 varieties chickens, geese and ducks. Eggs in season. Seeds and trees. Aye Bros., Blair, Neb., Box 5. Free book.

PIGEONS, OLD \$1. DOZEN DELIVERED before February 5th. Guineas \$5 dozen. No. 1 capons 21c. Turkeys 24c. Hens 16c. Coops loaned free. The Copes, Topeka.

EXTRA FINE S. C. BUFF ORPINGTON and S. C. White Leghorn cockerels, \$1.50 to \$5.00 each. Bourbon Red turkey toms \$5. Satisfaction guaranteed. F. E. Fisher, Wilson, Kansas.

MAMMOTH BRONZE TURKEYS, BIG boned, deep breasted, rangy birds. May and June hatched. Hens sold out. Toms \$5.00. 22 choice Light Fawn-White Runner ducks (either sex) \$1 each. Mrs. Bert Corry, Haddam, Kan.

## MISCELLANEOUS.

BABY CHICKS, CYPHERS HATCHED. Booking orders. Jesse A. Younklin, Wakefield, Kan.

TWO 400 EGG CYPHERS INCUBATORS, good as new for sale \$25 each. Mrs. W. E. Campbell, Edgerton, Kan.

## POULTRY WANTED.

WE ALWAYS PAY HIGHEST MARKET price for poultry of all kinds. Coops loaned free. Address Edw. E. Witchey, Topeka.







## Additional Classified Ads

### AGENTS WANTED.

MAN TO WEAR FINE SUIT, ACT AS agent. Big pay, easy work. Banner Tailoring Co., Dept. 534, Chicago.

WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 608, Springfield, Ill.

WOULD \$150 MONTHLY, AUTO OF YOUR own to travel in, as General Agent, handling remarkable sellers, Lightning Patch Vulcanizer, Shock Absorber, and Anti-Thief Combination Auto-Switch Lock, thief proof, interest you? Then address Dept. I-28, U. S. Manufacturing Co., Wolcott, Indiana.

### CREAM WANTED.

CREAM WANTED—THE INDEPENDENT Creamery Company of Council Grove, Kansas, buys direct from the farmer. Write for particulars.

### MISCELLANEOUS.

WANTED TO BUY CANARY BIRDS. Martin, 628 Clay, Topeka, Kan.

CONTAGIOUS ABORTION PREVENTED by R. Harold, Manhattan, Kan.

PINTO BEANS, 100 LB. LOTS 9 CTS. Freight paid in Kansas. W. H. Townley, Rush, Colo.

SHEEP REVIEW, MONTPELIER, INDIANA, farmers' sheep paper. Special offer, one year 25c.

WANTED TO BUY FOR CASH SECOND hand 30-60 Fairbanks Morse farm tractor. Address J. C. Newton, Bliss, Okla.

TWENTY POUNDS CREAM MAKES twenty pounds butter. New way churning. Write Charlie Clemmons, Verdun, Okla.

MAKE BIG MONEY SELLING PEERLESS Furniture and Automobile Polish. Handsome premiums. Keystone Specialty Company, Altoona, Pa.

HEAVES CURED OR MONEY BACK. Baird's Heave Remedy is guaranteed. Write Baird Mfg. Co., Box 201, Purcell, Okla., for particulars.

SEND TWENTY-FIVE CENTS AND GET twenty-five recipes and free samples to fill them. Quality guaranteed. Farmers Exchange, Clinton, Iowa.

KENTUCKY'S BEST NATURAL LEAF TOBACCO, mellow and sweet, 2 and 3 yrs. old, chewing or smoking, prepaid, 3 lbs. \$1.00, 7 lbs. \$2.00. S. Rosenblatt, Hawesville, Ky.

BOYS, GIRLS, SEND US THIRTY OR MORE names of farmers who will need seed corn this spring and we will send you a nice premium absolutely free. Seed Corn Armstrong's, Shenandoah, Iowa.

BIG BARGAIN FOR SHORT TIME ONLY. Send only 10 cents and receive the greatest farm and home magazine in the Middle West for six months. Special departments for dairy, poultry and home. Address Valley Farmer, Arthur Capper, publisher, Dept. W. A. 10, Topeka, Kansas.



## Utah Lands

are among the choicest in the West. You can buy rich, productive, irrigated or non-irrigated, lands at moderate prices, and on good terms, that are within easy reach of excellent markets.

Tell me for what purpose you desire the land, and I will send to you authentic information absolutely FREE.

R. A. SMITH, Colonization & Industrial Agt.  
Union Pacific System  
Room 1060, U. P. Bldg., Omaha, Neb.



## Vegetable Garden Free

It is none too early to commence to plan your vegetable garden for the coming season. If you have a piece of land that makes it possible for you to have a garden of any sort it is your duty to get busy and make that land yield something. We will help you with your garden and will furnish you the seed on an unusually liberal plan.

### Only One Collection To a Person

This is the best assortment of garden seeds ever offered. Choice, tested seeds, true and tried varieties, and warranted fresh, and reliable. This assortment contains all the standard garden vegetables, such as Melons, Onions, Cabbage, Radishes, Lettuce, Turnips, Beets, etc.

### Special Offer to Our Readers

We have purchased a large quantity of these vegetable seed assortments to give to our readers as a premium with a subscription. The seeds are packed in envelopes and will be sent free to all who send 50 cents to pay for a one year subscription to Capper's Weekly. New or renewal subscriptions accepted on this offer. Address

CAPPER'S WEEKLY, Seed Dept. 4, TOPEKA, KAN.

Enclosed find 50 cents for which enter my subscription to Capper's Weekly for the term of one year and send me the vegetable seed assortment free as per your offer.

Name.....

Address.....

## Help the Beekeepers

Hog cholera is the worst disease of hogs; foot and mouth disease is the most expensive disease of cattle and American foul brood is the beekeeper's most expensive foe. Whenever a man's hogs get cholera he knows it as they do not show up for their feed and he begins to investigate. By vaccination all hogs not sick can be saved. When foot and mouth disease breaks out in cattle the herd is quarantined and generally all the other herds within a radius of five miles or more are included. Then the infected herd is killed and buried. It is a fact that foot and mouth disease would not kill more than 10 or 15 per cent of the animals infected if left to run its course, but the loss caused by the presence of the disease in the herd justifies the drastic measures taken to stamp it out. American foul brood, when once introduced into a colony of bees, finally will kill that colony as there is no known cure for this disease. All that can be done is to shake the adult bees in the hive into a new, clean hive and then the old frames, with the honey and brood in the hive must be destroyed. The body of the hive can be used again after the inside has been charred out with a gasoline torch. Any colony of bees that dies immediately becomes a source of infection for all the bees within two or three miles as the hive will be robbed out by the other bees immediately. Foul brood has spread all over the state and during the last two years only \$500 has been available for inspection work. There has been expended \$5,000 for hog cholera work and \$58,000 for foot and mouth disease. For the coming two years the beekeepers have been asked by the entomological commission to ask for \$5,000 to fight this disease. The state entomologists estimate that there are at least 200,000 colonies of bees in the state worth 1 million dollars and the honey crop for the last year at 12 million pounds worth at least 1 million dollars. Is not the man who desires to make his living from bees entitled to the same protection as the man that makes it from hogs and cattle? Diseased hogs and cattle must be properly taken care of and why not bees? The man with \$1,000 invested in bees has a right to the same protection as the man with \$1,000 invested in hogs. The entomological commission needs more than \$5,000 but that much will help and the beekeepers are entitled to it. Every beekeeper in the state is urged to write to his representative and senator and ask him to vote for this appropriation of \$5,000 for state bee inspection work.

## Exempt Realty Mortgages

In a recent issue of the Farmers Mail and Breeze I saw an editorial criticizing the Federal Farm Loan Act on the grounds that in requiring 50 per cent equity the tenant farmer was not benefited. An answer was made by a certain banker at Kansas City, Kan., who suggested that the tenant could make a second mortgage which would be accepted by the banks and the tenant could procure a farm by making the two mortgages. I agree with you that this is impracticable for the reason that the second mortgages would not be salable.

In my judgment if the purpose of the Federal law was to enable a tenant without the necessary security to procure a farm then the law has failed in its purpose; but I do not think that was the purpose of the law. The law was passed to reduce the rate of interest for farm loans. I am well satisfied that end will be achieved. Its effect already has been felt and interest rates have been reduced.

You say a law is needed making it possible for the tenant to acquire a farm who has not the necessary security to procure a loan. I believe it is within the power of the legislature at the present session to grant this relief. If the legislature at the coming session will pass a law exempting real estate mortgages as have Colorado, Idaho, Louisiana, Maine, Maryland, New Jersey, Utah, Washington and Wyoming, I am well satisfied this problem will be solved. To illustrate: In March, 1916, I procured the exclusive sale of a large tract of land suitable for farming purposes. I have sold up to the present about 20,000 acres in small tracts to tenant farmers taking a small cash payment and a real estate mortgage back on the tract purchased for the remainder, the deferred payments bearing 6 per cent interest. It was possible to do this for the reason that the land was owned by non-residents of this state, consequently they had no tax to pay on these real estate mortgages. Our present law discriminates against the resident of the state and in favor of the non-resident.

Again if a farmer desires to lease his farm and the tenant makes good and desires to buy the farm by making a small cash payment and mortgaging for the remainder he is prevented from so doing by reason of the tax on the mortgage unless the owner will change his residence to another state and thus avoid the tax.

For 14 years an effort has been made at every session of the legislature to remedy this condition by passing a mortgage registration law such as exists in Alabama, Michigan, Minnesota, New York and Oklahoma. The first time this measure was proposed it passed one house and was defeated in

the other. The next session passed the law which was defeated by a veto of Governor Stubbs. The next session again passed the law which was again vetoed by Governor Stubbs. The next session it passed again and went to a conference committee to harmonize slight differences between the house bill and the senate bill, and was not reported but died in conference.

The next session the law passed again and was allowed to become a law by Governor Capper but was declared unconstitutional by the supreme court. Thus for the last four sessions of the legislature this law has passed and still no relief.

The supreme court in rendering opinion suggests that a law exempting real estate mortgages would not conflict with the constitution as the law conflicted only by reason of the charge of a registration tax. An individual resident of Kansas having funds which he desires to lend taking real estate security actually is under our present law prohibited from so doing for the reason that he is compelled to compete with our Kansas farm loan companies who are merely brokers or middlemen who dispose of their holdings so that on March 1 they own no mortgages. Our law discriminates against the resident and places a premium on dishonesty. In this count the records show more than 1 million dollars of farm loans and not one dollar of this pays any tax. Where the security is insufficient to procure a regular farm loan the borrower must seek local capital and where this is done the rate usually is 10 per cent and this mortgage will be taxed and mortgagor will pay the tax on the mortgage and the tax on the property.

Coldwater, Kan. DICK H. RICH.

## The County Printing

One thing the legislature should do is to make a change in the manner of awarding the county printing. Just at this time of the year every county in the state is having its printing scandal. In matters of education, roads and bridges, poor relief or any other county enterprise the business is done according to the merits of the case; but the letting of the county printing is solely a matter of political pull. The paper which has the pull puts its bid as high as it dares and the one which lacks the pull makes a grandstand play by bidding away down, and howling about the way the county money is being wasted. The fellow who howled this year may have the pull next time and get the printing, but he doesn't put in his low bid then; he bids as high as the other fellow ever did, and so all this row about the county printing never saves the county a cent. In the meantime the people are at loggerheads about the matter; some one is sore whichever way it is settled, and some one is sure to charge the county dads with being corrupt, and sometimes the charge is true. The county printing as it is managed at present is the biggest source of corruption in county government.

The legislature should put the newspapers out of politics and that would purify politics some more. The law should compel a division of the county printing among all the local papers published in the county. This could be an equal division or a division according to their proved circulation. Every paper in the county should publish all the official news and be paid for it. The purpose of the county printing law is to insure publicity, so the people may know what their servants are doing and what becomes of their money, and this publicity should be made as wide as possible. I am not in favor of letting the printing to the lowest bidder. The lowest bidder may be the poorest paper in the county or the one of least circulation. Whenever I see a board of county commissioners haggling over printing bills and hunting for a lowest bidder I think that they are ignoring the true intent of the law and would like to avoid publicity entirely with their proceedings, if the law would let them.

The so-called "legal rate" or maximum rate mentioned in the law is pretty high when all paid to one paper, but not unreasonable when it commands the services of half a dozen. Every live town has its newspapers and they are nearly all good ones and worthy to live, but they are all having a hard struggle to live since the paper trust has begun to put the screws to them. If every one of these little country weeklies could get one or two hundred dollars a year out of the county printing it would save a lot of them from bankruptcy. A division of the county printing would not only insure greater publicity but it would be the salvation of our country press.

Gove City, Kan. W. P. HARRINGTON.

## Watch the Road Laws

The organization for good roads, now in Topeka, has a bill that plays on the sympathies. The proposed bill is kept in the hands of friends, and anyone not friendly to it is kept in the dark. Do not let your enthusiasm for good roads lead you into favoring something you do not really want. Be careful about approving any bill until you understand it thoroughly.

The Grange committee has been at work and we are sure its members will have something to report worth while in a few weeks. State Master Needham's office is temporarily with Mr. Whitney in the state horticultural department. He signed 18 new charters last week. Quail have been attacked in the legislature and the Grange delegates are trying to protect them. Write your representative or senator about legislative matters in which you are concerned, and express your wishes.

Greeley, Kan. ERNEST MCCLURE.

## Prosperity in the West

Farmers in Finney county are enjoying unusual prosperity, according to information given today by a local banker. Over a quarter of a million dollars' worth of alfalfa is still in the stack and in the possession of the farmers. Alfalfa is selling there for from \$12.50 to \$16 a ton, according to quality. Other crops are selling for high prices. Thousands of acres of wheat are covered with 4 inches of snow.

Grain in the litter, in the early morning, increases the hen's circulation, and also the currency circulation.

## Additional Real Estate Ads

### WISCONSIN

30,000 ACRES our own cut-over lands; good soil, plenty rain, prices right and easy terms to settlers. Write us.  
Brown Bros. Lbr. Co., Rhinelander, Wis.

### SOUTH DAKOTA

SOUTH DAKOTA lands. On corn, alfalfa and grain land, the state gets as large an acre yield of the same crops as states farther east where land is priced two or three times as high. The price is rising and now is the time to buy. For state bulletins address Department of Immigration, State Capitol Bldg., Pierre, S. D.

### NEW YORK

312 ACRES, 3 barns with basements and concrete floors. 10 room house, good farm. 30 cattle, mostly cows. For \$7,000, only \$2,600 cash, long time on balance. Do you know this is a bargain? Income from milk daily. Hall's Farm Agency, New Paltz, N. Y.

### WYOMING

Free—640 Acre Homesteads IN WYOMING. We will locate you and stock you with sheep or cattle. For particulars write Western Ranch Exchange, Eastern Office, P. O. Box 1106, Lincoln, Neb.

### ALABAMA

THE GREATEST stock farm and hog raising proposition in the United States, 2500 acre farm at Montgomery, Alabama, alfalfa and corn land, well improved, railroad station, fronting 6 miles on hard road. \$25 an acre. Half cash, balance ten years, 5%.

F. M. Kohn & Son, Montgomery, Ala.

### MONTANA

640 ACRE Montana Homesteads—new law. Circular free. Bureau 112, Boulder, Mont.

**MONTANA** The Judith Basin offers exceptional opportunities to the farmer, stockman and investor. Surpasses ordinary farming methods. Harvest every year—not once in awhile. No irrigation, splendid climate, excellent water, good markets. You can do better in the Judith Basin. Buy direct from the owners. Prices lowest; terms easiest. Free information and prices sent on request. Address THE COOK-REYNOLDS CO., Box R1405, Lewiston, Montana

## SALE OR EXCHANGE

TRADES EVERYWHERE. Exchange book free. Bersie Agency, El Dorado, Kan.

240 A. KAW VALLEY LAND. IMPROVED. J. M. Conlan, St. Marys, Kansas.

TRADES EVERYWHERE. Large list free. Reeve & Staats, Emporia, Kansas.

WHATEVER you may have for exchange write me. Eugene Oaks, West Plains, Mo.

OZARKS OF MO., farms and timber land, sale or ex. Avery & Stephens, Mansfield, Mo.

1000 ACRES exchange for anything. 10 a. up. Timber, water and grass. S. A. Robinson, Southwest City, Mo.

LET me know what you have for exchange or sale. Co-operative Realty Co., Humansville, Mo.

THREE RANCHES in Elk Co. to exchange for wheat land, city property or small farm. F. J. Brown, Howard, Kansas.

TRADES Farms, property, stocks. Write Ochiltree, St. Joseph, Mo.

## FARM LOANS

FARM AND CITY MORTGAGES—a specialty. Write us if you wish to borrow. Perkins & Co., Lawrence, Kan.

MONEY TO LOAN on improved farms or ranches. Stocks, and bonds bought and sold. Wiltse Agency, Lincoln, Neb.

## We Will Send You A Pair of Gloves FREE

These gloves are made Gauntlet style from Automobile Tops and Trimings. They will outwear several pairs of ordinary leather gloves. They will protect your hands and are exceedingly comfortable as they give plenty of finger freedom and

### They Are Water Proof

These gloves are just the thing for automobile driving or work gloves. They are well made, pliable and durable.

### Get Yours Today

We purchased a large supply of these gloves to give to our readers and we want you to write for your pair today.

Free Offer—We will send one pair of these gloves to all who send us \$1.15 for one yearly subscription to Farmers Mail and Breeze, or free for one three-year subscription at \$2. New renewal or extension subscriptions accepted on this offer. Farmers Mail and Breeze, Dept. G, Topeka, Kan.





# BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroughly reliable and the many bargains are worthy of your consideration

**Special Notice** All advertising copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

**\$15 TO \$30 BUYS BEST wheat land in Gove Co.** P. J. Higley, Grainfield, Kan.

**3 SNAPS.** Imp. 120 a. at \$40; 160 at \$55; 57 at \$90. Decker & Booth, Valley Falls, Kan.

**160 A. IMPROVED,** half cultivated, mile to town, \$5,000. Fred A. Reed, Salina, Kan.

**PROSPEROUS Meade County, Land.** \$12 and up. No trades. J. A. Denslow, Meade, Kan.

**160 A. imp., 40 a. wheat, 15 a. alf., bal. meadow and pasture.** Renstrom, Oage City, Kan.

**232 ACRES, ALL TILLABLE.** \$1,000 buys it from owner. Ray Jackson, Syracuse, Kan.

**82 A. joining Burlingame.** Electric lights, water works. \$5200. E. H. East, Burlingame, Kan.

**40 A. 1/2 ml. here, in wheat; finest of alfalfa land.** In oil and gas district. \$2500, part time. B. F. Cavanaugh, St. Paul, Kan.

**NORTHEAST KANSAS bargains** in bluegrass, timothy, clover and alfalfa farms. Exchanges. Compton & Keen, Valley Falls, Kan.

**WANTED:** Parties owning Western Kansas land to write me your price and state if you will trade. R. A. Ward, Alden, Kan.

**100 A., 1 1/2 ml. Lebo, Kan., 80 cult., 20 blue-grass pasture.** \$75 a. Mtg. \$2500, 6 1/2%. Trade for mdse. Hedrick & Beschka, Hartford, Kan.

**SMALL STOCK** of general merchandise doing business at Ellis. Goods and fixtures invoice about \$1200. Will exchange for western land. Western Real Estate Co., Ellis, Kan.

**KANSAS LAND FOR SALE.** 1400 acres in Montgomery Co.; 240 acres in Chautauque Co. 400 a. cult., 820 a. grazing land. Suitable for ranch. Priced right. C. E. Frailek, 1936 Parallel Ave., Kansas City, Kansas.

**360 ACRES Lipscomb Co., Texas,** 5 miles from new Santa Fe line. All good black soil, surrounded by improved farms, low price, \$25 per acre. 160 acres 7 miles Shallowater, Scott Co., Kan., \$12.50 per acre. Terms, no trades. W. H. Sanford, 609 New England Bldg., K. C. Mo.

**WHEAT** selling \$1.50 a bu. Have 480 acres, all best of land, mile and half out, 300 in wheat, 1/2 with sale, small imp., good water, only \$25.00 an acre. \$5,000.00 cash handles it. Other bargains in wheat land. Highly improved 80 acres, Riley Co., Kansas, snap price. R. C. Buxton, Utica, Kansas.

**WE HAVE A SECTION** of wheat and alfalfa land west of Kinsley, near Spearville, Kansas, that we will sell for \$40 per acre on twenty annual payments with 5 1/2% int. 100 acres now in alfalfa, 320 first bottom fine for alfalfa; good improvements with feed lots along the creek and plenty of living water. J. O. Patterson, 609 New England Bldg., Kansas City, Mo.

**FOR SALE.** 183 acres located 1 1/2 miles from Okaloosa, Kan. Well improved and all tillable. Price \$105 per acre. For better description and terms, write L. C. Arnold & Company, St. Joseph, Mo.

**40 SECTIONS** of ranch land in S. E. Okla. Good grass and worlds of water, sell all or part. Price \$3.50 per acre. Guss Schlimpf, Burns, Kansas.

**180 ACRES,** highly improved wheat farm. Well located; 1/2 mile to good school, 4 miles to R. R. town. Price, \$12,500. G. W. Meyer, Hoxie, Kan.

**BROWN COUNTY FARM,** bargain, near Hiawatha, Kansas. Write for full description and price. Terms if wanted. Mansfield Land Co., Ottawa, Kansas.

**WE OWN 100 FARMS** in fertile Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water. Will sell 80 acres or more. E. E. Frizell & Sons, Larned, Kansas.

**80 ACRES** close town, good improvements, fine property. A bargain at \$5,000. Possession on short notice. Easy terms. Come at once or write for full description of just what you want. Mansfield Land Co., Ottawa, Kansas.

**40 ACRES,** all creek bottom; all in cult. but 1 acre. Well located, fair improvements. Bringing \$2 acre oil lease; drilling within 3 miles of land. Will sell on easy terms or take 1/2 good clear trade. Price \$100 a. Cottage View Stock Farm, Howard, Kan.

**2640 ACRES** best flint hill pasture, well fenced, watered. 2 sets improvements. 50 creek bottom alfalfa, 100 more cult. 3 miles town. The best ranch in Elk Co. Price \$23 per acre. Liberal terms. Also have other ranches that are bargains. W. T. Lewis, Howard, Kan.

**FOR SALE.** 2600 acres, Finney Co., 6 ml. from Garden City. 1200 good smooth wheat land, 500 bottom land, fencing, improved, plenty water, 160 a. cuts 20 ton prairie hay a year. Price \$25 per a., 1/2 cash, bal time or will consider some trade. 160 acres, Sheridan Co., 3 1/2 ml. town, 125 under cult. \$22 per acre. 619 Horabough Bldg., Hutchinson, Kan.

**160 ACRES** located 2 miles of good railroad town, Franklin County, Kansas. All nice smooth tillable land; 120 acres in blue grass pasture, and timothy and clover meadows; good 7 room house; good barn; close to school and church. Price \$75 per acre. Extra good terms. Casida & Clark, Ottawa, Kan.

**160 ACRES,** a perfect quarter, seven miles from Scott City, the county seat, and three miles from another town and elevator. All choices wheat land; 115 acres in cultivation, 40 acres now in wheat; all goes to purchaser; small improvements. Possession March 1, 1917. Price for quick sale \$25 an acre. Terms on part. The King Realty Company, Scott City, Kan.

**A FARM SNAP.** 160 acres in Nemaha County, three miles from Goff, Kansas. Fair improvements. Corn, wheat and alfalfa land. Close to school and market. \$5,000.00 cash. Balance on long time. No trade. Address E. H. Johnson, Atchison, Kansas.

**1500 ACRE RANCH, 1 MILE OUT.** Bottom land, 500 acres hay, \$17, terms. Cliff Tomson, Syracuse, Kan.

**WELL IMPROVED QUARTER.** 5 miles southeast of Topeka, Kan., on good road. 40 a. blue grass pasture, bal. cultivated. Price \$16,000; half cash. Address Owner, Box 433, Des Moines, Iowa.

**FOR SALE FOR CASH.** A good clean stock of general merchandise consisting of groceries, hats, caps, dry goods, notions, boots, shoes, in fact, one of the cleanest stocks you ever had the pleasure of looking at, any part of the stock not in good shape will be cut out. Stock will invoice about \$4,500 and fixtures will run around \$500. I cannot spare the time from my other business. If you want a good clean stock in a good location, wire, phone, write or come and see. Priced to sell. J. H. Lee, Agent, Harveyville, Kansas.

**WANT GOOD LAND CHEAP?** We have it in Seward County. Ask for list or come and see. Griffith & Baughman, Liberal, Kan.

**EASTERN KANSAS FARMS** 50, 80, 160 and 240 a. improved farms near Lawrence. We offer for 20 days at \$40 per acre. Good terms. Have several farms for rent. Hemphill Land Co., Lawrence, Kan.

**WICHITA FARM BARGAIN** 160 acres 8 ml. from Wichita, Kan., rich loam, 6 room house, barn, 50 a. alfalfa. All fenced. Price \$60. Same land selling \$75 to \$90. \$3,000 will handle this, bal terms 6%. H. E. Osburn, Wichita, Kan.

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

**80 ACRES ONLY \$500** Near Wellington; good loam soil; 60 a. cult.; 20 past.; 4-room house, barn, etc. Poss.; only \$500 cash, bal. \$260 yearly. R. M. Mills, Schweitzer Bldg., Wichita, Kan.

**Lane County** Write me for prices on farms and ranches, wheat, alfalfa and grazing lands. W. V. Young, Dighton, Kan.

**CHASE CO. STOCK RANCHES** 640 a. improved, 2 1/2 miles railroad, 100 a. cult. 50 a. alfalfa. \$40 per a. Send for list. Stock ranches in best county in Kansas. Also alfalfa farms. J. E. Bocock, Cottonwood Falls, Kansas.

**A REAL BARGAIN** 640 a., 400 a. alfalfa land, 300 a. in cult., 150 a. in wheat. All fenced and cross fenced; timber, running water, good improvements; 35 a. in alfalfa, 2 ml. town. This is fine black land and adjoins lands running from \$70 to \$80 per a. This belongs to heirs and must sell. No trades. Buy from owners; price \$47.50 per acre for quick sale. Lock Box 39, Alexander, Kan.

**TO CLOSE ESTATE** 100 ACRES rich Kaw Valley farm, no waste; one-half mile to station, 2 miles to good town and high school, fine improvements. Write or telephone. B. L. Fowler, Executor, Perry, Kan.

**Cash for Farm Lands** Where you find one purchaser for a large tract of land we can furnish twenty wanting small tracts. 40s and 80s. Let us subdivide and sell your place. Write for particulars and references. Closing up estates a specialty. MIDDLE WEST LAND AUCTION COMPANY C. F. Sutter, Pres. I. H. Johnson, Gen'l Mgr. P.O. Box 374, Office, Hub Bldg., Salina, Kan.

**400 Acre Ranch, Phillips Co., Kan.** Situated in the Prairie Dog Creek Valley, 1 mile south of the Kansas-Nebraska line. 350 a. now in cultivation, 200 a. now in wheat, 150 acres corn ground, 240 acres fenced and cross fenced, 15 acres of timber. 35 a. of pasture, 8 room frame house, frame barn, will stable 12 horses, Stud and jack barn, Cow barn, with stanchions. Will stable eight cows, 2 good steel mills, 30 feet to water, 1 set of scales, 2 granaries, hen house and cellar. Cash price \$50 per acre. Will carry \$12,000 on first mortgage at 5%. Address Woodruff State Bank, Woodruff, Kan.

## BARGAIN LAWRENCE, KAN.

385 acres, stock farm, 2 ml. from University of Kansas, and city limits of Lawrence, 100 acres bottom land. 30 a. alfalfa, 60 a. wild hay meadow, 55 a. clover, balance blue grass pasture, 7 room house, good barn, well watered, until March 1st, 1917, \$70.00 per acre.

**Hosford Inv. & Mtg. Co.** 824 Mass. St. Lawrence, Kan.

## 760 Acres Kansas Ranch

3 miles county seat town in rain belt. 200 acres fertile valley land. Shallow water, balance hay and pasture. Living water, modern 9 room house, 2 barns, silo. A combination farm and ranch certain to increase in value. Price very low for quick sale, terms 5 1/2%. Possession March. Also other bargains. Parish Investment Company, Kansas City, Mo.

## ROOKS CO. FARM

200 acres, 4 1/2 miles from Stockton, with a good 5 roomed house, good barn, room for 10 head of horses and 800 bushel bin, with hay mow, granary room for 1800 bushels, cow stable and sheds. 100 acres in cult. 100 rough pasture, 2 wells and 2 wind mills, three-fourths of a mile to school. Price \$40 per acre. A. L. Graham, Real Estate, Stockton, Kansas.

## FINE 400 ACRE FARM — STEVENS COUNTY

AT A BARGAIN PRICE. I have one of the best 400 acre farms in S. W. Kansas, improved, for sale at a sacrifice price. Situated 11 miles north of Tyrone, Okla., and 13 1/2 miles from Liberal. Write for full description and price if you want a snap. E. J. Thayer, Liberal, Kan.

## Executors Sale FINE STOCK RANCH

The A. F. Shute Stock Ranch, containing 970 acres will be sold to settle the estate February 10, 1917, at two o'clock P.M. at the Court House in Salina, Saline County, Kansas. This ranch is situated 2 1/2 miles from Brookville, and same distance from Bavaria, two good trading points on the Union Pacific Railway. Is well improved, about 450 acres in cultivation, balance in good grass and pasture, and all fenced. Will be sold to the highest bidder for cash. Abstract will be furnished. Thos. L. Bond, Executor, Salina, Kan.

## MISSOURI

**FOR SOUTHEAST MISSOURI farms,** write M. Leers, Neelyville, Mo.

**120 ACRES,** 60 cult. Improved. Good water. \$2400. W. W. Tracy, Anderson, Mo.

**60 ACRES IMP.,** Butler Co. 30 in cult., balance timber and pasture. Shattuck Real Estate Exchange, Poplar Bluff, Mo.

**145 ACRES,** \$45 per a. \$1500 cash; fine creek bottom and prairie. I advertise bargains only. H. G. Mosher, Schell City, Mo.

**STOP! LISTEN!** 160 a. valley farm, \$3,000. 5 room plastered house; near town. Good terms. Free list. McGrath, Mtn. View, Mo.

**320 ACRES,** the best farm in Ozark Country and best improved. Valley land. Improved for dairying; 250 a. tame grass, \$65 acre. Terms. J. A. Wheeler, Mountain Grove, Mo.

**120 A. EXTRA WELL IMP.** Water, grass and fruit. 100 a. cult. Bal. timber. \$45 a. Lays fine. 35 acres meadow. Baker, Mountain Grove, Missouri.

**160 ACRES,** 6 miles of Adrian, Missouri, all smooth land, 25 acres in wheat, 40 acres in tame hay, remainder cultivation, 95 acres fenced hog tight, fair improvements, price right, easy terms for immediate sale. Mansfield Land Co., Ottawa, Kansas.

**I OWN 4 STOCK FARMS** from 40 to 640 a. Well watered. No trade. Descriptions furnished. Liberal terms. N. L. Townsend, Mountain Grove, Mo.

**80 ACRES, 60 CULTIVATED.** Good improvements. Timber and pasture; abundance water. \$40 a. Terms. Two miles railroad. R. R. Moore, Collins, Mo.

**GREAT BARGAINS.** \$5.00 down, \$5.00 monthly, buys 40 acres good fruit and poultry land; near town, some timber, price \$200. \$10 monthly buys 80 acres. Box 808, Excelsior Springs, Mo.

## OKLAHOMA

**EASTERN OKLAHOMA farms,** ranches, oil lands. \$5 up. Black Bros., Stillwell, Okla.

**158 A.,** 95 cult. 2 sets improvements. Fine water; open stock range. \$35 per acre. W. J. Foreman, Westville, Okla.

**40 A. 5 MI. McALESTER,** city 15,000. 23 a. fine bottom cult. Fair imp. \$26 per a. Terms. Southern Realty Co., McAlester, Okla.

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

**BOTTOM FARM.** 160 a. 2 ml. station. (\$0 plowed, some nice mow land). Corn, wheat and alfalfa land. Nice grove; poor improvements. Pure water, 1 ml. school. Price \$3,000. Time on \$1200 at 5%. Perry DeFord, Oakwood, Oklahoma.

## ARKANSAS

**40 ACRES,** improved, 38 cult. \$2000. 1/2 cash. Terms. Fair, Centerton, Ark.

**FOR ARKANSAS farms and ranches,** write for lists. R. D. McMullen, Ola, Ark.

**100 A. 2 ml. county seat,** 65 in cult. Improved. B. H. Atkinson, Berryville, Ark.

**79 ACRES, IMP., 45 A. Cult.** \$2200.00. Moss & Hurlock, Siloam Springs, Arkansas.

**IF YOU want a wheat or stock farm,** write for price list. C. L. Wilson, Tribune, Kan.

**500 ACRE plantation.** 350 cultivated; make five good homes. Fine soil, water, timber, location. \$30 acre. Guthrie, Ozark, Ark.

**226 ACRES,** upland stock ranch. Imp. 90 in cult., balance timber, 9 miles Charleston, \$3000; terms half. Goodbar, Charleston, Ark.

**FOR SALE, 15,000 ACRES** good unimproved agricultural lands. No hills, swamps nor overflows, close to good market town of 25,000; healthy, good schools; land can be put in cultivation cheap. The rent you are paying will pay for a farm. \$15 per acre, \$3 per acre down, bal. 10 years 6%. Frank Kendall Lumber Co., Pine Bluff, Ark.

**200 ACRES,** 100 cultivated, one mile town. Three houses, well watered. \$4500. Terms. W. W. Adams, Ozark, Ark.

**COME TO CLEBURNE county,** Arkansas. Land \$5 up; easy terms. Send for list. Claude Jones, Heber Springs, Ark.

**160 ACRES,** good improvements. 135 cult., bal. timber. \$40 an a. Well watered. J. F. Stevenson, Dardanelle, Ark.

**IF YOU WANT** good farm, stock and fruit lands, write us for list. Robertson & Son, Magazine, Arkansas.

**200 A. 6 ml. R.R. station;** 60 acres in cult. Small imps. \$1500, 1/2 cash, bal. long time. Wallace Realty Co., Leslie, Ark.

**80 ACRES,** 30 in cult.; small house. Bal. timber. 5 ml. Marshall on turnpike road. Terms. \$10 a. Lock Box 21, Marshall, Ark.

**132 ACRES,** improved. 100 cult., bal. timber and pasture. \$3,000. Good terms. Yell Co. Land Co., Danville, Ark.

**40 A., 4 room house,** good outbuildings 1000 fine bearing fruit trees; good water. 2 ml. R. R. Price \$1000. Easy terms. J. M. Doyel, Mountainburg, Ark.

**110 ACRE FARM,** 65 acres bottom land in cultivation, 35 acres more tillable land produced this year \$75 per acre. Two 3 room houses, good water. Price \$2,000. J. C. Hart, Owner, Waldron, Ark.

**DO YOU WANT A HOME?** \$350 cash, bal. easy terms gets this one. 1 ml. Conway. State Normal, Hendrix Male College, Central Baptist College, St. Joseph's School, High schools. All tillable, 35 a. cult. Smooth, fertile land. No rock. 4 room house, small barn; 2 wells fine water; state highway. 49 a. \$2,000. Write for description. Bahner & Co., Conway, Ark.

**FOR SALE.** Improved and unimproved tracts of land in Jefferson County, Arkansas, and vicinity; 40 acres and upward, \$17.50 per acre. Terms. No trades. Other lands same character in vicinity selling at \$25 per acre and upward. Mills & Sons, Box 387, Pine Bluff, Ark.

**THE LAND OF OPPORTUNITY.** Perry County, Arkansas. Improved farms; rich level land, soil that will produce wonderful crops of corn, wheat, oats, clover and alfalfa at prices ranging from \$15 to \$35 an acre. Good terms. Come, join a community with a future. Free literature. Write today. Chafin-Colvin Land Co., Perry, Ark.

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## TEXAS

**RICH ARTESIAN LAND.** Onions and strawberries net \$500 acre. Mild winter work. \$50 to \$100 acre. Buy some future comfort. J. F. Nooe, Boerne, Texas.

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## NEBRASKA

**FARMS AND RANCHES:** 160 to 4,000 a.; pay like rent. Write for photos and description. R. D. Drullner, Benkelman, Neb.

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**CHEAPEST** choice half section RELINQUISHMENTS in Colorado, farm and ranch properties. Write for bargain list. Terral Land Company, Springfield, Colo.

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Jesse R. Johnson, Nebraska and Iowa. 1937 South 16th St., Lincoln, Neb.  
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### FUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

### Combination Sales.

Feb. 26 to Mar. 3—F. S. Kirk, Mgr., Wichita, Kan.

### Percheron Horses.

Jan. 30 to Feb. 2—Illinois Breeders, Bloomington, Ill. C. W. Hurt, Mgr., Arrowsmith, Ill.

Feb. 1—J. W. Smith, Courtland, Kan.  
Feb. 9—Breeders' combination sale, Manhattan, Kan.

Feb. 15—C. S. Butler, Cherryvale, Kan.  
Feb. 17—C. H. Payton, Norton, Kan.  
Feb. 22—G. W. Overly, McCune, Kan.  
Feb. 22-23—Nebraska Pure Bred Horse Breeders' Association, sale at Lincoln, Neb.  
C. F. Way, Sec.-Treas., Lincoln, Neb.

### Draft Horses.

March 9—W. T. Judy & Sons, Kearney, Neb.

### Jacks and Jennets.

Feb. 1—J. W. Smith, Courtland, Kan.  
Feb. 15—C. S. Butler, Cherryvale, Kan.

Feb. 22—M. H. Roller & Son and Bruce Saunders, Holton, Kan.  
Feb. 22—G. W. Overly, McCune, Kan.  
Mar. 13—Hineman & Sons, Dighton, Kan.  
Mar. 15—L. M. Monsees & Sons, Smithton, Mo. Sale at Missouri State Fair grounds, Sedalia.

### Hereford Cattle.

Feb. 22—C. F. Behrent, Norton, Kan.  
Mar. 3—Combination sale, Manhattan, Kan.  
Prof. W. A. Coehel, Manhattan, Kan., Mgr.

### Holstein Cattle.

Jan. 30—H. L. Cornell, Route 6, Lincoln, Neb.

Feb. 14—C. A. Lewis, Beatrice, Neb.  
Feb. 21—A. L. Fellows and H. L. Kinman, Clay Center, Kan.

Feb. 21—Nebraska Holstein Breeders' Consignment sale, South Omaha. Dwight Williams, Sales Manager, 4110 Davenport St., Omaha, Neb.

Feb. 6—H. C. Glissman, South Omaha, Neb.

### Jersey Cattle.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

### Shorthorn Cattle.

March 13—Blank Brothers & Kleen, Franklin, Neb. Sale at Hastings, Neb.

March 14-15—Highline Shorthorn Breeders' Ass'n, Farnam, Neb. E. W. Crossgrove, Mgr., Farnam, Neb.

March 15-16—Breeders' Consignment sale, South Omaha, Neb. J. C. Price, Lincoln, Neb., Mgr.

March 28—F. A. Egger, Roca, Neb.  
Mar. 30—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

### Polled Durham Cattle.

March 9—W. T. Judy & Sons, Kearney, Neb.

Mar. 29—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

### Poland China Hogs.

Feb. 6—Smith Brothers, Superior, Neb.

Feb. 7—T. F. Walker & Son, Alexandria, Neb.

Feb. 8—Wm. McCurdy & Son, Tobias, Neb.

Feb. 9—Frank J. Rist, Humboldt, Neb.

Feb. 12—W. E. Wiley, Steele City, Neb.

Feb. 14—C. A. Lewis, Beatrice, Neb.

Feb. 15—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.

Feb. 17—S. A. Nelson & Sons, Malcolm, Neb.

Feb. 19—C. Lionberger, Humboldt, Neb.

Feb. 21—O. B. Clemetson, Holton, Kan.

Feb. 22—J. J. Ehrhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan.

Feb. 23—Oliver & Sons, Danville, Kan.

Feb. 23—C. F. Behrent, Norton, Kan.

Feb. 27—Von Forell Brothers, Chester, Neb.

Feb. 28—Clarence Dean, Weston, Mo.; sale at Dearborn, Mo.

Feb. 28—John Naiman, Alexandria, Neb.; sale at Fairbury, Neb.

Feb. 28—Agricultural College, Manhattan, Kan.

### Duroc-Jersey Hogs.

Jan. 31—J. H. Proett & Son and H. J. Natchigall & Son, Alexandria, Neb.

Feb. 1—Theo. Foss, Sterling, Neb.

Feb. 1—Phillip Albrecht & Sons, Smith Center, Kan.

Feb. 7—F. J. Moser, Goffs, Kan.

Feb. 3—Dave Boserger, Cortland, Neb.

Feb. 14—Howell Brothers, Herkimer, Kan.

Feb. 16—J. C. Boyd & Son and Ira Boyd, Virginia, Neb.

Feb. 16—Earl Babcock, Fairbury, Neb.

Feb. 19—Searle & Cottle, Berryton, Kan.

Feb. 28—Agricultural College, Manhattan, Kan.

### Hampshire Hogs.

Feb. 26—A. H. Lindgren, Jansen, Neb.; sale at Fairbury, Neb.

March 2—Earl Schroeder, Avoca, Neb.

March 2—Ezra Williams, Oak Grove, Mo.

### Chester White Hogs.

Feb. 23—Henry Fehner, Higinville, Mo.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

## S. W. Kansas and Oklahoma

BY A. B. HUNTER.

### Shepherd's Duroc Jersey Glits.

G. M. Shepherd of Lyons, Kan., is offering 30 spring glits bred to Illustrators 2d Jr. for March and April farrow. These glits are sired by Crimson Wonder Again Jr., G. M.'s Crimson Wonder and G. M.'s Defender. Mr. Shepherd says this is the best lot of glits he has ever raised. If interested write him, mentioning this paper.—Advertisement.

## Farmers Mail and Breeze Pays Advertisers

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—Our ad of Ayrshire bull calf appeared in your paper December 9 and we have received two checks for the bull dated December 11. We have sold him to James Wagner of Perth, Kan. Yours very truly,—Johnson & Matthews, Breeders of Ayrshire Cattle, Alta Vista, Kan., Dec. 17, 1916.

### Capper Publications, Topeka, Kan.

Gentlemen—We are sold out of Holsteins for the present. Want to say that Nebraska Farm Journal and Farmer's Mail and Breeze have gotten us more business in a few weeks than all the others that we have used all summer. We will be with you again soon as we have a good lot of Holsteins, Shorthorns and Polands coming on and we are stopping our ad at this time simply because we do not have the time to answer so many inquiries. Yours very truly,—J. C. Price, Breeder of Holsteins, Shorthorns and Polands, Fairbury, Sept. 27, 1916.

### HORSES.

For Sale: Home-Bred Stallions \$250 to \$400, except two for sale. A. LATIMER WILSON, CRESTON, IOWA

ONE REGISTERED PERCHERON STALLION and one jack for sale. J. E. DIFFENBAUGH, ABILENE, KANSAS

PERCHERON STALLIONS One 9 years old, champion at Topeka; One 3, and one 2 years old; both prize winners. JOHN A. PECK, TECUMSEH, KANSAS. Phone, Watson, Kans. Will meet trains at Topeka by appointment



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Registered Percheron stallions, yearling, two, three and four year olds. Blacks, and a few grays. Brilliant bred. The big, wide-out, heavy boned, ton kind. Two year olds weighing 1900 lbs. Also a bunch of big, registered mares showing colts.

30 big, Mammoth black jacks, the kind that breed the big mules. Jacks, 15 to 17 hands standard measure, Jennets in foot. All stock guaranteed. References, the Banks of Lawrence. 40 ml. west of Kansas City. AL E. SMITH, LAWRENCE, KANSAS.

## Stock For Sale!

3 head of Standard bred colts; one brown filley 4 years old, stands 16 hands, weighs 1,200 pounds, has been tracked a little and shows lots of speed. Sire Pactus Ellwood 50245, he by old Pactus 9102; dam, Bessie Miller, by Tom Miller Jr., 2:10. One black stud, 3 years old, has been tracked a little and is clever and very speedy. Stands 15.3 and weighs now 1,135. Drives single and double. He is a full brother to the above mare. One black filley, 3 years old, name Luta Miller, stands 15.1, broken to drive, has same sire. Dam, Estan Selotta, by Symboler 2:09. All these colts are sound and highly bred. We have 6 high grade white face bulls for sale, 2 years old, past. They are in fine condition.

I have 5 head of high grade Holstein helpers for sale. They are from 14 months to 3 years old; 3 giving milk and one springer. All are bred to my Holstein male. One Holstein male, coming 2 years old in April. This is an extra big male, greater part white in color. I want to sell all 6 head together. A few registered Jersey cows for sale.

O. L. Thisler, Chapman, Kansas

## 40 PERCHERON STALLIONS, JACKS AND JENNETS

2 to 6 years old; heavy bone, right every way. Imported Spanish jack, weight 1200 pounds at head of jennet herd. Come and see us. We mean business. Prices reasonable.

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BONAPARTE 101896 was foaled in 1913 and was the second prize winner in class that fall at the Iowa state fair. He is now a beautiful black weighing about 2000.

KANGOROU STAR 12197 was foaled in April 1914. He is a beautiful black stallion and was sired by C. W. Lamer's great prize winning Kangorou.

The above Stallions are for sale and any man wanting Percheron stallions that are right in every particular should visit Glasco and investigate these stallions and what they have done for this vicinity. Write for further information. I also offer a big boned Mammoth jack. Address, GEO. W. NOWELS, Glasco, Kan.

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### HORSES.

DISPERSION SALE OF CLYDESDALES One span of brood mares, regular breeders, in foal, by imported stallion. One coming 3 year old filly. One coming 2 year old stud and one weanling stud colt. All show stuff. The thick, blocky kind, sound and best of breeding. C. H. Wempe, Seneca, Kansas.

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Just arrived. A new shipment of Stallions and Mares. If you are in the market for a good Percheron stallion or mare now is the time. We can show you more bone, size, action and conformation than you will see elsewhere. Write or come today.

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## Graner Stock Farm Percherons

Bryan 54682



Special prices for 60 days on Stallions and a few spans of matched mares. W. H. GRANER, LANCASTER, KANSAS (12 Mi. from Atchison) (Good R. R. Connections)

## PERCHERON AND BELGIAN

Over 60 Head of Registered Stallions, Mares and Colts

To close up a partnership the mares and colts must be sold by March 1st. I mean business. Come and see them.

J. M. NOLAN, PAOLA, KANSAS



## Woods Bros. Co., Lincoln, Neb.

Imported and Home-Bred Stallions Percherons, Belgians and Shires

Come to Lincoln and visit our barns. We will show you 75 stallions, yearlings, 2-year-olds, 3-year-olds and aged horses that you will say are the draftiest, best boned, cleanest lot of stallions you ever saw together. We are especially strong in yearlings and 2-year-olds that will mature into 2,000 to 2,200-pound horses.

Our imported stallions are direct from the Aveline stud, the only shipment leaving France since the outbreak of the war.

Our 1916 show record at the Nebraska and Kansas State Fairs includes 37 first prizes, 14 senior and junior championships, 10 grand championships, 17 second prizes, 12 third prizes.

Our prices, terms and guarantee will suit you. We expect to show at Denver, Colo., Jan. 20-27.

A. P. COON, Manager

## Bishop Bros. Percherons

Our stallions are all young, a life of usefulness before them. They are the big, strong boned, massive kind, with quality and finish to suit the most critical buyer. If you want a stallion it will pay you to come see ours. You can find what you want and at the right price. We invite your inspection and solicit your inquiry.

Bishop Bros., Towanda, Kan.

## German Coach Stallions and Mares

The Farmers General Purpose Horse

23 stallions from weanlings to 5-year-olds. Handsome, stylish, gentle, but powerful young stallions, 1300 to 1600 pound fellows, the right kind to produce durable, active farm horses and command attention in any stud. Priced where you will buy. Satisfaction guaranteed. Come or write at once.

BERGNER BROS., Route 4, PRATT, KANSAS

WALDOCK LAKE RANCH

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## JACKS AND JENNETS.

**Bargain for 10 Days Only: 5 Fine Jacks** from 1½ to 4 years old; 6 extra large jennets. HERMAN WETZ, KIOWA, KAN.

**ONE JACK** 5 years old, black with white points, height 14-15; extra good bone. Quick performer. Will sell or trade for young mules or cattle. W. C. ISERN, ALDEN, KANSAS.

**FOR SALE—4 BIG JACKS, 3 JENNETS** The jacks are 4 and 5 years old; 15½ to 16½ hands, standard measure. They are all grandsons of Limestone Mammoth. F. W. POOS, POTTER, KANSAS.

**7 JACKS, 10 JENNETS** Two to 7 years old, 14 to 15½ hands high, heavy bone. Priced to sell. For further information write A. ALTMAN, ALMENA, KAN.

## Kentucky Jacks and Saddlers

Registered BIG BONE Kentucky MAMMOTH JACKS and JENNETS. 85 SADDLE and CUBAN GAITED STALLIONS, geldings and mares. YOU CANNOT AFFORD TO BUY UNTIL YOU get our description and prices. WRITE US describing your wants. Mention Mail and Breeze.

THE COOK FARMS, Box 436K, Lexington, Ky.

15 JACKS  
20 JENNETS

3 to 6 years old, 15 to 15½ hands high. Excellent in bone, size and conformation. Write today.

**Philip Walker**  
Moline, Elk County, Kansas

## JACKS FOR SALE

Seven head, blacks with white points, except one which is dark gray. Ages as follows: Two that are two years old, two three years old. Two coming eight and one coming ten. All broke to mares and prompt performers. Colts to show from matured jacks. Mares in foal from past season. Also Standard bred stallion. Would consider ton draft stallion on some of this stock. All jacks eligible to reg.

Thompson Bros., Marysville, Kan.

## JACK BARGAINS

Two Missouri bred jacks, 5 years old; Teddy Abraham III 51058 and Young Rattler 51058. Height 15 and 15½ hands. These jacks are black with white points. Extra good with white points. Extra good head and ear; good bone, good dispositions and good performers. These jacks are bargains priced for quick sale.

**G. G. DICK & SONS,**  
LaHarpe, Kansas

## CHESTER WHITE AND O. I. C. HOGS.

**EXTRA GOOD O. I. C. BOARS** 100 to 150 lbs. each—best of breeding. Harry W. Haynes, Grantville, Kansas



## Summer Boars

O. I. C. and fall pigs, at very reasonable prices, to make room for my spring pigs. F. C. GOOKIN, Russell, Kansas

## SILVER LEAF O. I. C.'s.

Am sold out of everything but August boars. They are fine, of the best of breeding and priced cheap for quick sale. Will ship them on approval. Write for description. G. A. Cary, Route 1, Mound Valley, Kan.

## Kansas Herd Chester Whites

Gilts bred to Don Izzy, Don Wonder, Don Wildwood; sired by champions. Fall pigs by Don Milligan. Reasonable prices. Nine rail roads. Arthur Mosse, R. 5, Leavenworth, Kan.

## CHESTER WHITE PIGS SHIPPED C. O. D.

I am booking orders for spring pigs sired by prize winners. Free, 24 page catalog with photos. Also the difference between Chester Whites and O. I. C.'s. My herd boar, a prize winner, for sale. Henry Wiemers, Diller, (Jefferson Co.) Neb.

## BREED THE BEST

There can be but **One Best** Why lose profits breeding and feeding scrub hogs?

Two of our Famous **O. I. C. HOGS** weighed 2806 lbs.

Will ship you sample pair of these famous hogs on time and give agency to first applicant. We are originators, most extensive breeders and shippers of pure bred hogs in the world. All foreign shipments

**U. S. Gov't Inspected** We have bred O. I. C. Hogs for 58 years and have never lost a hog with cholera or any other contagious disease.

Write today for Free Book, "The Hog from Birth to Sale" also True History of the Origin of the O. I. C.

**THE L. B. SILVER CO.,**  
468 Heights Temple Bldg., Cleveland, Ohio

## N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

W. A. McIntosh, Courtland, Kan., reports all of his Poland China bred gilts sold. He offers choice early fall boars and gilts and one spring boar. All immune. He is willing to make close prices to early buyers. He needs the room.—Advertisement.

Howell Brothers, Herkimer, Kan., (Marshall county) have claimed February 14 as the date of their annual Duroc-Jersey bred sow sale. They will sell about 40 bred sows and gilts and they will be an unusually choice lot of sows. The sale will be held at the farm as usual and will be advertised in the Farmers Mail and Breeze in due time.—Advertisement.

C. H. Wempe of Seneca, Kan., is offering special bargains in Clydesdale horses. His offering includes a span of brood mares, in foal to an imported stallion. One coming 3-year-old filly; one coming 2-year-old stud and one weanling stud colt. These horses are all of the thick, blocky kind and represent the best of breeding. For further information concerning the offering and prices write Mr. Wempe and mention Farmers Mail and Breeze.—Advertisement.

## Last Call Smith's Jack Sale.

J. W. Smith, Courtland, Kan., sells jacks and jennets and a wonderful 4 year old Percheron stallion, at his farm joining Courtland next Thursday, February 1. He is selling his herd jack Salitario, well known in Republic county as one of the greatest jacks ever owned in that county. He is selling a wonder in the 2 year old grandson of Limestone Mammoth. This youngster stands 16½ hands high standard. The sale will start at 1 o'clock and the best of railroad facilities are to be had both going and returning.—Advertisement.

## Good Angus at Reasonable Prices.

The readers of this paper should not overlook the ad of Sutton & Porteous of Lawrence, Kan. These gentlemen are recognized among the oldest and most successful Aberdeen-Angus breeders in the state. They have a large number of bulls of serviceable age in their lots. The care of this herd is under the personal supervision of Mr. Porteous, who is considered authority on Angus cattle. Messrs Sutton & Porteous have spared neither time nor money in the development of their herd. They always buy the best, raise the best, and sell the best at very reasonable prices. Write them today and mention this paper.—Advertisement.

## Big Type Poland Chinas.

E. Cass of Collyer, Kan., is offering special prices on big type Poland China pigs. These pigs are sired by Ames 77795, a thousand pound boar with lots of quality. Among the big brood sows in this herd are Big Sally 183574, Sunflower 155982, and Princess Perfect 2d 184610. Mr. Cass maintains a herd of from 100 to 125 the year 'round; they have access to plenty of pasture and the litters run from eight to 11. The breeding of this herd is right, the method of raising the hogs is right, and Mr. Cass's prices are right and he furnishes a pedigree with each pig. If interested write him and mention Farmers Mail and Breeze.—Advertisement.

## Peck's Percheron Stallions.

J. A. Peck of Tecumseh, Kan., is offering some bargain prices in Percheron stallions. One of these is a 9 year old horse which Mr. Peck has used for several years and is selling him for the reason that there are so many of his fillies in the neighborhood that he cannot be used longer to advantage. This is a thoroughly proven sire and a good one as his colts will show. He was champion at Topeka State Fair. Mr. Peck also has two young stallions, one coming 3 and one coming 2 years old. Both of these are prize winners. If interested in this offering write Mr. Peck and tell him when you will come to look at the horses. If you will name a day he will meet you in Topeka.—Advertisement.

## Duroc Dispersion Sale.

W. W. Jones, Clay Center, Kan., who is becoming well known as a breeder of high class Duroc Jerseys, has decided on a dispersion sale, Friday, February 2. It is surely a rare opportunity to buy the best in breeding and fine individuals for the breeder who wants to strengthen his herd. There will be three herd boars in this sale that will sell for a very small part of what they are really worth. The 11 tried sows are as valuable as any like number of sows ever sold in a sale ring. The 25 fall boars and gilts are equally as good. This entire number was being reserved for his own herd and the sows are bred to the best advantage for early litters. Don't miss this sale. Write for further information and catalog immediately. It is your chance.—Advertisement.

## The Calkins Shorthorn Sale.

C. C. Calkins's Shorthorn sale at Burlington, Kan., was well attended and the prices received were very good. Thirty head sold for \$126.50 average and three calves were included in the lot. It was Mr. Calkins's first draft sale and was very satisfactory. The sale was held under a big tent and as the day was ideal there was a big attendance. Mr. Calkins is not closing out but has reserved some choice cattle and will hold other sales in the future. Mrs. Calkins, assisted by the ladies of the Prairie Center Ladies' Aid, served a nice lunch at noon. Remember Mr. Calkins is staying in the Shorthorn business and will have stock to sell every year.—Advertisement.

## Sunflower Herd Holstein Sale.

F. J. Searle, owner of the Sunflower herd of Holsteins, will hold his fifth annual sale some time in April, the exact date has not been claimed. Mr. Searle has sold some very high class cattle in his previous sales but the coming offering will be the best he has ever made. There will be 30, 35 and 44 pound breeding with A. R. O. cows, fresh cows, springing cows, heifer calves, service bulls and bull calves. There will probably be 150 sold in a two days' sale. Mr. Searle will be glad to have readers of this paper send for catalog at any time.—Advertisement.

## Kansas Percheron Breeders.

Attention is called to the big combination Percheron sale at the college pavilion, Manhattan, Kan., Friday, February 9. Forty-five head will be sold. These stallions and mares have real merit. They were personally selected for this sale by C. W. Mc-

## CHESTER WHITE AND O. I. C. HOGS.

**CHESTER WHITE HOGS** Fashionable breeding. Excellent quality. Prices reasonable. E. E. SMILEY, PERTH, KAN.

**For Sale, O. I. C's.** A few service boars, July gilts and fall pigs, priced for quick sale. A. G. COOK, LURAY, KANSAS.

**Edgewood Farm Herd Chester Whites** Spring boars with length, size, bone and quality sired by Don Ben 2nd and Sweepstakes. HENRY MURK, Tonganoxie, Kan.

**FEHNER'S O. I. C.** Herd headed by the \$500 Eagle Archie first prize aged boar at Sedalia, 1916. We offer 100 selected spring pigs, a number by a son of Eagle Archie, every one immune and shipped on 10 days' approval. Henry Fehner, Higginsville, Mo.

## SHEEP.



**REGISTERED SHROPSHIRE RAMS** Yearlings and two, square built, hardy bucks with weight, bone and heavy fleece. Quick shipping facilities and priced cheap. 412 head. Near Kansas City. Howard Chandler, Charlton, Iowa.

## MULE FOOT HOGS.

**200 Immune Mulefoot Hogs**, all ages, sired by champion males. Hereford Cattle. Catalog free. C. M. Thompson, Letts, Ind.

## BERKSHIRE HOGS.

**BERKSHIRE PIGS** Best of Breeding. Big type English. Either sex, \$15 each. Crated and papers furnished. R. J. LINSOTT, HOLTON, KANSAS

## DUROC JERSEY HOGS.

**Duroc-Jersey** gilts, bred for Mar and Apr farrow, to a good son of Critic B, and a grandson of Perfect Col.; May boars. Fall pigs either sex. R. T. and W. J. Garrett, Steele City, Nebraska

## Country Gentleman 132541

Last chance to get boars sired by this great boar. Also some good ones by Gold Medal 170231. We are keeping his gilts and offer him for sale. Everything immune and farmer's prices. W. R. HUSTON, AMERICUS, KANSAS

## Private Sale, Boars and Gilts

20 Duroc Jersey boars, March farrow and 15 gilts same age. Priced to sell. Also a choice lot of fall pigs, either sex. Address A. E. Sisco, Topeka, Kan., Phone (3026 Wakarusa)

## Choice Duroc Gilts, Bred

30 spring gilts, bred to Illustration II Jr., for March and April farrow. These are sired by Crimson Wonder Again Jr., G. M.'s Crimson Wonder or G. M.'s Defender. The best lot I have ever raised. Priced to sell. G. M. SHEPHERD, LYONS, KANSAS.

## Bonnie View Stock Farm

**Duroc Jerseys and Holsteins** PUBLIC SALE FEBRUARY 19th. 20 Holsteins and 15 bred sows. Write for catalog. SEARLE & COTTE, BERRYTON, KANSAS.

## Guaranteed Duroc Bred Gilts

Immune Duroc Jersey gilts with size, bone and stretch. Guaranteed in farrow. Shipped to you before you pay. F. C. Crocker, Box B, Filley, Neb.

## DUROC-JERSEY BOARSON APPROVAL

15 spring and fall yearlings ready for hard service. \$30 to \$40. Shipped to you before you pay. Fully guaranteed. I've got one for you. GEO. W. SCHWAB, CLAY CENTER, NEBRASKA.

BALDWIN  
DUROCS

## DUROC-JERSEY HOGS.

**HIRSCHLER'S DUROCS** Best of breeding. Spring boars ready for service. Gilts bred or open. Priced for quick sale. Write today. E. J. HIRSCHLER, HALSTEAD, KANSAS

## Immune Duroc Boars

Herd headed to farmer's kind, bred close to grand champions on both sire and dam side. Prices reasonable and satisfaction guaranteed. Write today. G. B. Woodell, Winfield, Kas.

**Duroc-Jerseys** Johnson Workman, Russell, Kansas

## TRUMBO'S DUROCS

August boars \$15. Summer gilts \$12.50, also the herd boar Crimson McWonder for \$125, a great herd boar that should head some good herd. All immune. Satisfaction guaranteed. Wesley W. Trumbo, Peabody, Kan.

## DUROCS of SIZE and QUALITY

Herd headed by Reed's Gano, first prize boar at the State fairs. Spring boars and gilts, from the champions Defender, Superba, Crimson Wonder and Golden Model. JOHN A. REED & SONS, Lyons, Kansas

## BANCROFT'S DUROCS

Guaranteed immune. Bred gilts, guaranteed safe in pig. September pigs, either sex. D. O. Bancroft, Osborne, Kan.

## Taylor's World Beater Durocs

The large good kind of spring boars \$25 each. Booking orders for fall weaned boars \$12.50; also sow pigs \$14. Prepay express charges on weanlings anywhere in Missouri, Kansas or Oklahoma. JAMES L. TAYLOR, OLEAN, MILLER CO., MO.

## Duroc-Jersey Bred Sow Sale Feb. 7

50 Duroc Jersey bred sows and gilts go in this sale combining size, quality and breeding that will challenge any like number to be sold this winter. I will book you for a catalog any time. F. J. MOSER, GOFF, KANSAS

## CRIMSON ORION KING 195345

A very classy lot of Duroc Jersey March gilts. Big type, well grown out. Carry the most noted blood lines. Bred to Crimson Orion King, Premier Illustration and Valley King the Col.

**Lant Bros., Dennis, Kansas**  
INTERURBAN STOP 64

## Missouri's Champion Herd of Durocs

**BRED GILTS:** Fine spring gilts by champion sires and out of champion dams and bred to champion boars. Write for prices. Every one guaranteed as represented.

CHAS. I. TAYLOR, OLEAN, MISSOURI

Open gilts \$20, or for \$30 will keep and breed to "Graduate Prince", our new herd boar, that has won as many State Fair prizes and sired as many prize winners as any boar in the state. Weight 960. Call and see him. Service boars \$25. Some extra choice baby boars at \$12.50, sired by "Model Top Again", a prize winner at both the Kan. State fairs last year. Order now. \$100 takes the pick of our baby Shorthorn bulls. R. W. BALDWIN, Conway, Kan.

Combination Sale  
Big Duroc-Jersey Bred Sows

Under cover at

Alexandria, Nebr., Wednesday, Jan. 31



**45 Head All Immune**  
15 tried sows and fall yearlings, 30 spring gilts

The offering is largely sired by, or bred to, the great boars, BIG LINCOLN VALLEY CHIEF and TOP COL. CHARMER. Few bred to KING'S COL. LONGFELLOW, a great young sire combining the blood of King the Col. and Watts Model. There will be some real attractions. The catalog tells all. Write for it and mention Farmers Mail and Breeze. If you can't be with us send bids to Jesse Johnson in care of either party making sale.

**J. H. Proett & Son, Alexandria, Nebraska**  
**H. J. Nachtigall & Son, Alexandria, Nebraska.**

W. M. Putman, Auctioneer. Jesse Johnson, Fieldman.



## HAMPSHIRE HOGS.

**REGISTERED HAMPSHIRE** 150 gilts and sows, all ages. Cholera immunized. Satisfaction guaranteed. C. E. LOWRY, Oxford, Kan.



**Shaw's Hampshires**  
150 registered Hampshires, nicely belted, all immunized, double treatment. Service sows and bred gilts. Satisfaction guaranteed. Walter Shaw, R. 6, Wichita, Kan.

## POLAND CHINA HOGS.

## SPOTTED POLAND CHINAS

Ten good bred gilts and a few tried sows. Close prices for quick sale. R. H. McCUNE, LONGFORD, KAN.

## QUALITY AND SIZE

Big Type Poland Chinas, either sex, \$12 to \$35. Satisfaction guaranteed and a pedigree with each pig. E. CASS, COLLYER, Trego Co., KANSAS

## JOHN BLOUGH, Bushong, Kansas

Write at once for prices on Poland China bred sows and gilts and also a few boars. The big litter kind. Address as above.

## I Ship on Approval

The best of big type Poland China breeding. Special prices on bred sows and 50 head of fall pigs. ED SHEEHY, HUME, MO.

Fashionable Stock Place  
Big Type Poland Chinas

April boars and gilts. Can sell stock not related. All immune. Satisfaction guaranteed. V. O. JOHNSON, Aulne, Kansas.

## Big Type Poland Chinas

One strictly high class show boar and herd header prospect, perfectly marked and will develop into a 1,000 pound hog; also a few other good ones of same breeding at very reasonable prices. A. M. MARKLEY, MOUND CITY, KANSAS

## Albright's Private Sale

Of more quality, big type Poland China bred gilts and Sep. Pigs, either sex, is now on. You can't beat them. Write today for prices. A. L. ALBRIGHT, WATERVILLE, KAN.

## Fairview Poland Chinas

Choice sows and gilts, bred for March farrow. Also 50 fall pigs. All priced to sell. Write us today. P. L. WARE & SON, PAOLA, KANSAS

## POLAND CHINAS

Big Type—Big Bone—Big Litters. Spring and summer pigs, either sex. Satisfaction guaranteed. Engleman Stock Farm, Fredonia, Kansas

## Original Big Spotted Polands

75 fall pigs, pairs and trios not related. Pedigrees with each pig. Big litters. Address ALFRED CARLSON, Cleburne, Kan.

## Early Fall Boars and Gilts

Bred gilts all sold. One spring boar. Extra good. All immune. Ask today. W. A. MCINTOSH, COURTLAND, KANSAS



## Private Sale

March boars by the half ton Hercules 2nd. Choice gilts same age. Summer and fall pigs at bargain prices. Summer pigs ready to ship. Pedigree with each pig. ANDREW KOSAR, DELPHOS, KAN.

## ERHART'S BIG POLANDS

Home of more prize winners than any herd in the West, headed by the grand champion Big Hadley Jr.; large, roomy, prolific sows. Am pricing the grand champion boar Robidoux; also special prices on fall and spring boars. A number of herd headers among them priced for quick sale. A. J. ERHART & SONS, Ness City, Kan.

## As Good As Grows

Comparison with other herds most earnestly invited. Smooth, Extra Smooth Price and Extra Smooth Price 2nd, herd boars at the top. History makers. L. C. Walbridge, Russell, Kansas

Giant Uhlans Pigs  
Take 1st Place

Fall pigs, males and gilts, immunized, by Giant Uhlans, whose pigs won 7 firsts and 5 seconds at Topeka and Hutchinson State Fairs, also junior champion sow at National Swine Show at Omaha. Write at once. Get 1st choice. H. T. HAYMAN, FORMOSO, KANSAS

## Reserved Poland March Gilts

Because of recent purchases to get new blood I offer six gilts weighing 250 and up, sired by Gritter's Surprise, out of 650 and 700 lb. dams. Bred for March farrow. A. J. SWINGLE, LEONARDVILLE, (Riley Co.) KANSAS

Campbell, who is managing the sale. Fifteen well known Percheron breeders are the consignors. This is the initial sale and Dr. McCampbell believes it will result in getting the small breeder, who has really good stallions or mares, in touch with the buyer looking for good ones. The sale is advertised in this issue of the Farmers Mail and Breeze. Look up the advertisement and write for the catalog. Address Dr. McCampbell, Manhattan, Kan. Mention the Farmers Mail and Breeze when you write. —Advertisement.

## Successful Holstein Sale.

W. H. Mott, Herington, Kan., Holstein breeder and proprietor of one of the strongest herds of registered Holstein cattle in the state and Holstein sales manager of no mean ability, pulled off another successful sale of high grade Holstein cows and heifers in the new sale pavilion at Council Grove last Wednesday. Eighty head were sold; the cows and older heifers averaging \$122. Twelve yearling heifers sold for an average of \$65. The entire offering was one of real merit and it is very likely the best offering of high grade Holsteins ever made this far west. There was a nice crowd of Holstein men out and Dr. Mott received many compliments on the high quality of the offering he had assembled. Look up his advertisement in this issue of the Farmers Mail and Breeze and write him about cows and heifers, either high grades or registered. —Advertisement.

## Moser's Bred Sow Sale.

F. J. Moser's annual Duroc Jersey bred sow sale to be held at Sabetha, Kan., is advertised in this issue of the Farmers Mail and Breeze. Mr. Moser is the well known breeder at Goff, Kan. He is holding his sale at Sabetha because of the better train service. Free hotel accommodations will be furnished for those who come from a distance. The offering of 46 head is one of real merit and while it is in the very best of breeding condition it is not fat and has been handled in such a manner as to insure big, strong litters. In former sales they have been able to please every customer and in this sale they hope to be as fortunate. The breeding is up to date and the three herd boars used in the herd are not only good individuals but carry the blood of noted sires. Plan to attend this sale. Write for the catalog early. If you can't come you can send your bids to J. W. Johnson, Sabetha, Kan., care of F. J. Moser. —Advertisement.

## Nebraska and Iowa

BY JESSE R. JOHNSON.

Earl Babcock, Duroc Jersey breeder of Fairbury, Neb., announces a bred sow sale Feb. 17. The offering will be sired by or bred to the great breeding boar Golden Illustration, son of Illustration 2nd. Write any time for catalog and mention Mail and Breeze. —Advertisement.

The Holstein cattle sale that H. L. Cornell of Lincoln, Neb., is making on January 30 will be an event of importance. He is selling 85 head of high grade cattle, composed almost entirely of heifers. Many of them bred, others not yet of breeding age. This is a dispersion sale. —Advertisement.

R. T. & W. J. Garrett, Steele City, Neb., have a nice lot of Duroc Jersey gilts, bred for March and April farrow. They are bred to a good son of the champion Critic B, and a grandson of the champion Perfect Col. They have a few spring boars of May farrow for sale yet and a good lot of fall pigs, either sex, priced to sell. —Advertisement.

## Kern's Sensation Sale.

Dave Boesiger, the prominent Duroc Jersey breeder of Cortland, Neb., is featuring his big boar Kern's Sensation in his February 3 sale. This is one of the best big boars of the breed and he comes from a family of prize winners. Mr. Boesiger has a big variety of the best breeding for this sale. Either come or let Jesse Johnson do some buying for you. —Advertisement.

## Glissman's Holstein Sale.

Henry C. Glissman, the big Holstein specialist of Omaha, Neb., will make his annual sale at South Omaha, Tuesday, February 6. On the above date he sells 75 head of registered cattle. They are an exceptionally well bred bunch and a big per cent of them heifers bred, and a lot of A. R. O. cows with records up to 22 pounds. Everything over 6 months old has been tuberculin tested and will be sold with health certificate. —Advertisement.

## The Proett-Nachtigall Sale.

The big thing in the Proett-Nachtigall Duroc Jersey bred sow sale to be held at Alexandria, Neb., January 31, is the big boar Big Lincoln Valley Chief, one of the few 1000 pound Duroc sires in the West and one of the very few line bred Ohio Chief boars now living. This sale combines the tops from two good herds. If you haven't seen the catalog write for it today and mention this paper. Jesse Johnson will handle bids for parties unable to be at the sale. Such bids should be sent in care of the parties making sale at Alexandria, Neb. —Advertisement.

## Holsteins at Omaha.

A number of the best Holstein breeders of Nebraska, including the State University, are contributing to a combination sale to be held at the Stock Yards, South Omaha, February 21. The offering will include 80 head of purebred and registered cattle. Seventy-one of these are females, nine are bulls. There are some very high producing cows included in this offering and some outstanding herd bull material. Note the display ad in this issue for more particulars concerning the offering and the breeders consigning. A catalog of this offering may be had by addressing Dwight Williams, sales manager, 103 Bee Bldg., Omaha, Neb. Please mention this paper when writing. —Advertisement.

## Lonergan Made Good Sale.

Nebraska, Iowa and Kansas breeders competed in real earnest for the bred sows at D. C. Lonergan's annual sale, held at Florence, Neb., January 16. The entire offering averaged \$71.66. Only one sold for over \$100 and only two under \$50. This indicates the uniformity of prices paid, made possible by the uniformity of the offering. Among the best buyers were Joe Smatland, Schuyler, Neb.; W. E. Eagen, Silver City,

## SHORTHORN CATTLE.

## PURE BRED DAIRY SHORTHORNS

Double Marys (pure Bates) and Rose of Sharon families. Offer: 3 year old herd bull. A snap. R. M. ANDERSON, BELOIT, KAN.

## OUR HERD BULL

Abbotsford Lad 2, 395841, a pure Scotch bull, three years old, deep red, good disposition and a good breeder. We are keeping every heifer he has sired. Priced to sell quick. Also bull calves six to 10 months. Chester A. Chapman, Ellsworth, Kansas

## Scotch Topped Shorthorn Bulls For Sale

9 to 14 months old; from milking dams. Young Mary's and Orange cows of good size and conformation. E. C. SMITH & SON, PLEASANTON, KAN. Frisco and Mo. P. Railroads.

## Salter's Shorthorns

12 young bulls 6 to 12 months old; Scotch and Scotch topped. These young bulls are by such sires as Rosewood Dale, by Avondale, Silver Hampton and Master of the Dales; also cows and heifers, Scotch, Scotch topped and plain bred in calf to our great herd bulls, but priced so both farmer and breeder can afford to buy. Visitors always welcome. Phone Market 3705. Address, Park E. Salter, Wichita, Kansas

## Cedarlawn Shorthorn Bulls

For Sale: The two year old herd bull, Mystic Victor, by Vain Victor, by Barmpton Knight. A valuable tried bull sold guaranteed in every way. Young bulls from six to ten months old. Address S. B. AMCOATS, CLAY CENTER, KAN.

SHORTHORNS  
Private Sale

Seven bulls from eight to fourteen months old. Also cows and heifers. Shipping point Wamego. Oldest herd in Potawatomi county. Address W. T. Ferguson, Westmoreland, Kan.

## Scotch Bulls for Sale

Three pure Scotch bulls from 12 to 15 months old. Also two bulls that will be a year old in the spring. Write for descriptions and prices. P. M. Borland, Clay Center, Kansas

## SHORTHORNS

## Scotch and Scotch Topped

Six bulls from six to 13 months old. Reds and Roans. Sired by Scotch Pride, wt. 2200. Prices reasonable considering breeding and individual merit. E. P. FLANAGAN, CHAPMAN, KANSAS (Dickinson County)

Salt Creek Valley  
Private Sale

25 Shorthorn bulls from six to 12 months old. Also a good three year old bull. All sired by Barmpton Model 338998, by Barmpton Knight. Good breeding and plenty of quality. Inspection invited. Write for further information. Address, E. A. Cory & Sons, Talmo, Kan. (Pioneer Republic County Herd)

## Lookabaugh's Shorthorns

6 to 9 Months Time  
if Desired

Satisfaction Guaranteed  
or Money Refunded.

Special attention  
given the beginner.

Three Great Herd  
Bulls in Service.  
Fair Acres Sultan,  
Avondale's Choice  
and Watonga Searchlight.



Bred by Lookabaugh

H. C. Lookabaugh, Box A, Watonga, Okla.

## Special Bargains

2 heifers and a bull  
not related...\$400  
8 heifers and Scotch  
bull .....\$1250  
Bred heifers.....  
.....\$175 to \$200  
Young Scotch bulls  
.....\$200 to \$400  
Half the purchase  
price of any female  
given for her calf  
at a year old if such  
contract is preferred.

## OAKWOOD STOCK FARM COWS



50 HOLSTEIN COWS—50 JERSEY COWS and  
HEIFERS. All fresh now and in January.

This is an offering at private sale of high grade cows and heifers that should be investigated by anyone wanting to buy. They are freshening now and all will be fresh by the middle of January. Many of them are high testing cows with records of from 40 to 60 pounds of milk per day. All tuberculin tested. Information gladly furnished by return mail. Visitors met at Salina in auto. Farm two miles out. Bank references if desired. Bring your neighbor and we will get together on prices. Phone 1819 F-2. Address

M. E. Peck & Son, Salina, Kan.

## SHORTHORN CATTLE.

## ELMENDALE SHORTHORNS

100 big, rugged bulls, suitable for herd headers, or farm and range use. 50 females of different ages. These cattle are especially good and the prices attractive. Address Elmendale Farms, Fairbury, Neb.

Gigstad's  
Shorthorns

I offer my three year old herd bull, Golden Lad 410280 (wt. about 2200) for sale. He is dark red, gentle and a good sire. 15 young bulls, eight to 11 months old, reds and roans. My bulls and my prices will suit the breeder looking for the kind that build up a herd. Address

K. G. GIGSTAD, Lancaster, Kan.  
(12 miles from Atchison.) Good R. R. facilities.



Symphony's Last 395198

Is now for sale, 4 yrs. old. Keeping all of his heifers. Write for prices at once. H. C. Graner, Lancaster, Kansas

Shorthorn  
Bulls

12 that will be ready for service in the spring. Four of them polled and eligible for registry in the Polled Durham book. Priced to sell and they are good ones. Address, V. A. Plymat, Barnard, Kan.

Scotch and  
Scotch Tops

A choice lot of young bulls from 8 to 10 months old for sale. Sired by Valiant 346102 and Maringo Pearl 391902.

A number of pure Scotch bulls in this offering. For further information address,

C. W. Taylor, Abilene, Kan.

GREATEST  
BULL OFFER

10 extra choice bulls 15 to 18 months old.

10 from 6 to 12 months old. Reds and Roans.

All have from four to six top crosses. If you come you're sure to buy. Address,

W. F. BLEAM & SONS  
BLOOMINGTON, KAN. (OSBORNE COUNTY)



## LIVESTOCK AUCTIONEERS.

**Jas. T. McCulloch, Clay Center, Kan.** References: I am selling for every year. Write for open dates.

**FLOYD YOCUM** LIVESTOCK AND REAL ESTATE AUCTIONEER ST. JOHN, KAS.

**Rule Bros., H. T. & R. D., Ottawa, Kan.** Livestock sales a specialty. Write for dates.

**W. H. Fisher, White City, Kan.** Pure bred stock sales. Write, Wire or Phone. Address as above.

**Lafe Burger, Wellington, Kan.** LIVESTOCK AUCTIONEER Ask any Breeder. Write or wire as above.

## Be An Auctioneer

Make from \$10 to \$50 a day. We teach you by correspondence or here in school. Write for big free catalog. We are also starting a new breed of horses known as "Wagon Horses." We register 25 of the best mares in each county. Foundation stock mares to weigh about 1,250 pounds. Stallions must be registered Percherons.

**W.B. Carpenter, Pres., Missouri Auction School, 818 Walnut St., Kansas City, Mo.**

## POLLED DURHAM CATTLE.

**Double Standard Polled Durhams** Young bulls for sale. **C. M. HOWARD, Hammond, Kansas.**

## Polled Durham &amp; Shorthorns for sale

100 Registered  
**Roan Orange, Weight 2100, and Sultan's Pride** 1st at Kansas, Neb., Iowa and Oklahoma state fairs. Heads herd. Will meet trains. Phone 1602.  
**J. C. Banbury & Sons, Pratt, Kan.**

## Willson's Polled Durhams

For Sale: One 2-year-old herd bull, and three bulls, 8 and 11 months old. Also a few cows and heifers. Strong in Polled Durham breeding.  
Also a few choice Poland sows and gilts, bred to farrow in March and April.  
**T. M. Willson, Lebanon, Kansas**

## ABERDEEN ANGUS CATTLE.

**ANGUS CATTLE** 150 young bulls and heifers ready to ship.  
**Berkshire Hogs**  
**SUTTON & PORTEOUS, Lawrence, Kan.**

## Aberdeen Angus Cattle

Herd headed by Louis of Viewpoint 4th. 150624, half brother to the Champion cow of America.  
**Johnson Workman, Russell, Kan.**

## 17 Angus Bulls

In ages from six to 12 months old. Can ship over Santa Fe, Union Pacific and Rock Island. Will sell some cows and heifers. Address,  
**H. L. Knisley & Son**  
**Talmage, Kan. (Dickinson Co.)**

## HOLSTEIN CATTLE.

Registered Holstein bull calves for sale, from good cows. **Wm. C. Mueller, Hanover, Kansas**

**Holstein Heifers to Freshen Soon**  
One yearling bull, one eight months and one three. All registered. **BEN SCHNEIDER, Nortonville, Kan.**

**HOLSTEIN CALVES** high grade Holstein calves either sex, 3 to 4 weeks old, \$20 each. Express prepaid. **BURR OAK FARM, Whitewater, Wis.**

**CHOICE HOLSTEIN CALVES** 10 heifers and 2 bulls, 5 weeks old; nicely marked. \$20 each crated for shipment anywhere. **EDGEWOOD FARM, WHITWATER, WIS.**

**Registered Bull Calves** for sale from cows with official butter and milk records, also can spare a few cows. **HIGGINBOTHAM BROS., ROSSVILLE, KAN.**

**Car Load High Grade Well Marked HOLSTEIN** cows 4 to 6 years old; plenty of size; springing to calve. **HANNON BROS., Olathe, Kan., 20 miles S.W. Kansas City**

**Segrist & Stephenson, Holton, Kansas** Prize winning registered Holsteins. Bulls from three months to yearlings for sale. Address as above.

**50 HIGH GRADE HOLSTEIN COWS** for sale; also a few one and two year old heifers, some fresh and others to freshen soon.  
**EAGER & FLORY, R. 8, LAWRENCE, KAN.**

**Braeburn Holsteins**  
A R. O. bull calves from eight months down.  
**H. B. Cowles, Topeka, Kansas**

**LILAC DAIRY FARM**  
**TOPEKA, KANSAS, R. NO. 2**  
**Breeders of Pure Bred Holsteins**  
Bulls, from A. R. O. cows, all ages for sale.

**Sunflower Herd Holsteins**  
**KANSAS' GREATEST HERD**  
Offers cows bred to 30 lb. sire. Bull calves from 30 lb. sire and A. R. O. dams. Might spare a few heifer calves. Buy the kind that will make a profit on present high feeds. **F. J. SEARLE, OSKALOOSA, KANSAS.**

**BREED 'EM FROM SIR WALKER JOSIE**  
16 months old and very gentle. Carries prepotent ancestry for profitable producers and good udders.  
**TREDICO FARM, Route 3, KINGMAN, KAN.**

la.; Carl Mark, Meola, Ia.; H. E. Howes, Omaha; N. K. Moore, Pacific Junction, Ia.; H. J. Griffiths, Clay Center, Kan.; Carl Jensen & Son, Belleville, Kan.; C. C. Blue, Lowell, Neb.; John Miller, Panama, Ia.; R. B. Donham, Talmo, Kan.; H. L. Pike, Glenwood, Ia.; J. M. Nims, Humboldt, Neb.; P. H. Thompson, Walnut, Ia.; J. W. Smith, Pacific Junction, Ia., and J. W. Bell, McClelland, Ia.—Advertisement.

**Smith Brothers' Poland China Sale.**  
Smith Brothers, successors to Albert Smith & Sons of Superior, Neb., will have a fine lot of bred sows and gilts for their February 6 sale. They have much new blood and a big per cent of the offering will be bred to their new red boars, Big King Price and Orphan's Price, a pair of mighty good big boars of the very best big type breeding. Jesse Johnson will attend. Send him bids if unable to be present.—Advertisement.

## Chester White Pigs.

This issue contains the advertisement of Henry Wiemers, Chester White specialist, of Diller, Neb. Mr. Wiemers breeds prize winners and is now booking orders for spring pigs from prize winning stock. His hogs have both size and quality and are snow white. By buying pigs you can save lots of express and get a start very reasonably. When writing please mention this paper.—Advertisement.

## McCurdy's Poland Sale.

The William McCurdy sale of big registered Poland China bred sows and gilts will be held on the farm not far from Tobias and Alexandria, Neb., Thursday, February 8. A big per cent of the offering will be bred to the high priced young boar, Maple Grove Bob, a son of Slevier's noted Big Bob. Remember the date and if unable to attend send bids to J. W. Johnson, Tobias, Neb., in Mr. McCurdy's care.—Advertisement.

## Made Good Holstein Sale.

The Marshall-Laird Holstein sale, held at Lincoln, Neb., January 19, was a dandy. Grade cows selling from \$100 up to \$247.50, this price being paid by G. F. Rafter of Kearney for Jewell 6th, a cow with a record of 83 pounds milk in one day. Registered cows sold for prices ranging all the way from \$200 to \$265. The real bargain of the sale was the registered 15 months old bull Duke Johanna Inka 8th. He was bought by Charles Murry of Friend, Neb. for \$365.—Advertisement.

## Last Call Proett's Sale.

The big attraction in the J. H. Proett & Sons Duroc Jersey sale, to be held at Alexandria, Neb., will be the sows sired by and those bred to the 1,000 pound boar, Big Lincoln Valley Chief, one of the few line bred Ohio Chief boars living. H. J. Nachtigall & Son are consigning some good ones to this sale. The entire offering is immune and should interest Kansas buyers. Parties who are unable to be at this sale should write or wire bids to Jesse Johnson in Mr. Proett's care.—Advertisement.

## Last Call Walker &amp; Son's Sale.

Every friend of big, smooth Poland Chinas, in Kansas, should be interested in Thos. F. Walker & Son's sale to be held February 7. The farm is 4 miles from Gilead on the Rock Island. A special will be run morning of sale from Fairbury leaving at 9:30 for Gilead and return right after the sale. This will be the greatest bunch of bred sows and gilts ever sold by the Walkers. That part of the offering sired by Old Blue Valley and bred to Blue Valley Timm will make a fine showing. This is the last chance to buy sows by Blue Valley. The offering is immune and right in every way.—Advertisement.

## Prize Winning Poland Blood.

In his public sale advertising, which appears in this issue, W. E. Willey, Steele City, Neb., shows a cut of the sows, Anna Price 34th and Anna Price 36th weighing 962 and 860 pounds, the largest two sows ever shown by any one breeder. One was grand champion of Kansas and one of Missouri 1915. Mr. Willey is cataloging four full sisters to these sows for his February 12 sale. This sale will be full of such attractions. After his sale last winter Mr. Willey bought the best sows he could find bred to the best boars. Seven of these sows cost Mr. Willey \$1,320. Some of the good gilts that go in this sale are out of these sows and from the most noted boars of the breed. The offering as a whole is a credit to any breeder and should be sought after by the best breeders east and west. Write at once for catalog and mention this paper. Bids may be sent to Jesse Johnson in my care at Steele City, Neb.—Advertisement.

## S. E. Kan. and Missouri

BY C. H. HAY.

Charles M. Thompson of Letts, Ind., is advertising Mulefoot hogs and Hereford cattle in this issue. The Mulefoots are sired by or bred to champion males. Mr. Thompson has been carrying an ad in this paper for some time and reports splendid results from the advertising. He says he has recently made shipments to 14 different states and will ship 12 head to Central America in a few days. He also reports the sale of a fine Hereford bull to William E. English of Indianapolis, Ind. Readers of this paper who are interested in Mulefoots or Herefords should write Mr. Thompson for prices and particulars. Please mention this paper when writing.—Advertisement.

## Albechar Holsteins.

The world's record in butter production has recently been broken by Segis Fayne Johanna. In seven days this cow produced 50.68 pounds of butter. This is about 6 pounds more than the previous world's record. This cow is a sister to the sire of about 20 of the females in the Albechar herd, and this sire is the best living son of the sire of this world's record cow. This firm has daughters, granddaughters and great-granddaughters of a number of the world's best Holstein sires. These cows mated to their great sire are sure to produce something very desirable. If you want the best in Holsteins write Robinson & Shultz, owners of Albechar Holstein Farm, Independence, Kan., and mention Farmers Mail and Breeze.—Advertisement.

Hog pastures reduce the production costs.



## THE HOLSTEIN-FRIESIAN ASSOCIATION OF KANSAS

as an organization offers nothing for sale but desires to supply valuable information free to prospective buyers. The object of this association is to protect the interests of the breed in Kansas. Are you a member?  
Write **W. H. MOTT, SEC'Y., HERINGTON KANSAS**

## NORTHVIEW HERD OF HOLSTEINS

Start the new year right. Get the best—the cheapest in the long run. Three year old heifers due to freshen soon. Large, well marked and well bred. Registered bulls.

**LACKLAND BROS., AXTELL, KANSAS, (MARSHALL COUNTY)**



## 50 HEAD HIGH-GRADE COWS AND HEIFERS FOR SALE

All heavy springers, bred to a registered Holstein bull. Every animal a good one. We are interested in the distribution of the best Holstein cattle that can be procured; we will not be the agency of distribution of the inferior kind. We have no bulls for sale, all sold at this time. A new crop of Canary Butter Boy King calves coming on now. Come at once and see our offering or write for description and prices. **W. H. Mott, Herington, Kansas**

In 1887 Lee Bros. father brought the first imported Holstein cows to Wabaunsee county. In 1917 Lee Bros. & Cook have the largest pure bred and high grade herd in Kansas.

## 265 Holstein Cows, Heifers and Bulls

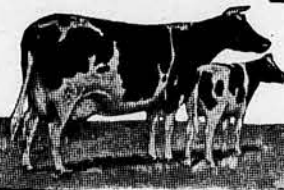
Registered and High Grade. 3 Cows and a Registered Bull \$325

We are selling dealers in Kansas and Oklahoma. Why not sell direct to you?

40 fresh cows, 75 heavy springing cows, 90 springing heifers; 40 open heifers and 20 registered bulls. Bring your dairy expert along, we like to have them do the picking. Every animal sold under a positive guarantee to be as represented.

Well marked, high grade Heifer and bull calves from 2 to 8 weeks old. Price \$22.50 delivered any express office in Kansas. We invite you to visit our farm and can show you over 300 head of cows and heifers, sold to our neighbor farmers. Wire, phone or write when you are coming.

**LEE BROS. & COOK, Harveyville, Wabaunsee Co., Kan.**



## TORREY'S HOLSTEINS

Cows and heifers, young springing cows well marked and exceptionally fine; also springing and bred heifers and registered bulls. See this herd before you buy. Wire, phone or write.

**O. E. TORREY, Towanda, Kan.**

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank.

## Holstein Friesian Farm, Towanda, Kan.

Breeders of Purebred Holsteins

We offer special attractions in choice young bulls, ready and nearly ready for service, both from tested and untested dams at prices within reason. Have some attractive baby bulls also, choicely bred. Let us furnish you a bull and improve your herd. Several young females from 6 months to 5 years of age, sired by high record bulls and from A. R. O. dams, up to 28.1 pounds butter in 7 days. A number of these females have A.R.O. records themselves, from 15 to 26 pounds, 7 day butter records.

## IT WILL PAY YOU TO SEE OUR OFFERING

of choice extra high grade, young cows and heifers, all springers, in calf to purebred sires, large developed females, good udders, nicely marked and the right dairy type at prices that challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone us.

**GIROD & ROBISON, Towanda, Kansas**



## HOLSTEINS

Choice cows and heifers showing in calf to pure bred bulls. Selected for size, color and milk production, from the best dairy herds of the east. You will find nowhere a better herd from which to select. Prices reasonable. Write, phone or wire.

**J. C. ROBISON, BOX A, TOWANDA, KAN.**

## Holstein Consignment Sale

at the Union Stock Yards Sale Pavilion, South Omaha,

February 21, 1917, by the

**Nebraska Holstein Breeders' Consignment Sales Co.**

(Incorporated under the laws of the State of Nebraska)

**THIS IS A QUALITY SALE**

**80** head of pure-bred registered Holsteins from the breeder's own herds, chosen to please the purchaser who desires to buy good breeding and quality. 71 females, 9 bulls. Among them are:

47 cows and heifers bred to 30 to 35-pound bulls; 10 daughters of 30-pound sires; 20 cows with advanced registry official milk and butter records; 3 cows with yearly records of over 10,000 pounds milk; a 27-pound cow; a 26-pound cow; a 25-pound cow; a 24-pound cow, and a 23-pound 3-year-old. BULLS—King Segis Lyons, one of the greatest proven sires in the west, and who will have over 30 A.R.O. daughters in 1917; a 5-months-old son of Rag Apple Korndyke Boon, (a 35-pound bull), from a 31.33-pound dam; a son of that wonderful producing cow, Katy Gerben, consigned by the University of Nebraska.

Everything over 6 months old tuberculin tested by reliable veterinarians.

**Sale Begins at 10 A. M. Sharp**

The consignors are: University of Nebraska, Lincoln; S. B. Davis, Supt. the Indian School, Genoa; D. E. C. Brown, Fullerton; LeRoy Ball, Albion; W. J. Jenkinson, Monroe; D. M. Hildebrand, Seward; J. F. Bunte, Cortland; B. B. Davis, Omaha; Nelson Bros., Stromsburg; W. M. Condon, Humphrey; Badger & Frost, Central City; Little & Little, Clark; C. J. Furry, Franklin; Dwight Williams, Omaha; E. C. Swanson, Stromsburg. If interested, write for Sale Catalog.

**Dwight Williams, Sales Manager, 103 Bee Bldg., Omaha, Neb.**



## GALLOWAY CATTLE.

## Wakarusa Valley Galloways

I have five good Galloway bulls for sale. Pure bred and registered. Not pampered. One year old and ready for service. F. M. Stahl, Topeka, or Leon Stahl, Auburn, Kan.

## Smoky Hill Galloways

The world's largest herd. Yearling and two-year-old bulls for sale in numbers to suit, from one to a car load, at reasonable prices. If in the market for Galloway bulls come and look them over.

**Smoky Hill Ranch**  
E. J. Guilbert, Owner, Wallace, Kansas.

## HEREFORD CATTLE.

## Registered Hereford Bulls

One 2-year-old, weight 1900 pounds, one extra good May calf, weight 600 pounds, and several other bull calves; also some good Percheron stud yearlings.  
**Mora E. Gideon, Emmett, Kan.**

## Spring Creek Herefords

Three yearling bulls for sale. Address  
**S. D. Seever, Smith Center, Kansas**



**HEREFORD FARM**  
Our Herefords prove profitable in the hands of their purchasers. Best of breeding and individual merit.  
**T. A. Wallace Barnes, Kan.**

## RED POLLED CATTLE.

**FOSTER'S RED POLLED CATTLE** Write for prices on breeding cattle.  
**C. E. FOSTER, R. R. 4, Eldorado, Kansas.**

**Red Polled Bulls For Sale**  
**ROLLA BROWNLEE, HOLDEN, MISSOURI.**

**MORRISON'S RED POLLS**  
Cows and heifers for sale. Write us your wants.  
**Chas. Morrison & Son, Phillipsburg, Kansas**

## Pleasant View Stock Farm

20 Red Polled heifers and young bulls for sale; can furnish herds not related. Also Percheron horses and Poland China hogs. **Hallgren & Gambrell, Ottawa, Kan.**

Riley County Breeding Farm  
RED POLLS—PERCHERONS

25 cows and heifers for sale. Young bulls ready for service in the spring. Inspection invited.

**Ed. Nickelson, Leonardville, Kan.**

## GUERNSEY CATTLE.

## MAPLE GROVE GUERNSEYS

REG. BULLS AND FEMALES—All ages for sale at all times, rich in high testing, heavy producing and A. R. blood lines. Prices reasonable.  
**F. J. GREINER Box 206-B Billings, Missouri**

## JERSEY CATTLE.

**Registered Jersey Bulls** Excellent Breeding. **Percy Lili, Mount Hope, Kansas**

**Jersey Bull** Rhoda's Blue Fox No. 149901, good enough to head any herd, coming two, \$100. **Frank Friend, Alta Vista, Kan.**

**TWENTY** pure bred, young, Jersey Cows Will sell five or more. Write for prices.  
**E. A. SCHOOLCRAFT, AGRICOLA, KANSAS.**


**LINSCOTT JERSEYS**  
**R. J. LINSCOTT, HOLTON, KANSAS**

## Cattle and Stanchions for sale

Three nice registered Jersey bulls fit for service and females all ages; also 20 stanchions with or without steel stalls; like new. Have too many.  
**S. S. SMITH, CLAY CENTER, KANSAS**

## Jersey Bull Calf For Sale

Two months old, registered, pure bred bull calf, solid color. Name, Lou's Sans Alo; sire, Sans Alo Merigold, H. R. No. 124128; dam, Lou of Rosalpa, H. R. No. 236776. Lou's milk record from Dec. 7 to Jan. 7, was 1.043 lbs., averaging 17 quarts a day. Address **C. F. EVANS, 625 W. Main St., Enid, Okla.**



**Dairymen! —The Truth**  
You may be prejudiced against the Jersey because you don't know her. Look her up. She's the Money Cow.  
Get This Book—a history of the breed and full of very interesting tests and facts. It proves conclusively that for pure dairy type, economy of production, richness of milk, long life and adaptability to feeds and climates—all these combined—she stands way above them all. This book "About Jersey Cattle" is free. Get your copy now. You'll find it mighty good reading.  
**The American Jersey Cattle Club**  
355 West 23rd Street, New York City

## A Good Meeting at Manhattan

A big meeting of farmers is expected at Manhattan during Farm and Home Week, beginning February 5. The state associations interested in the progress of agriculture will meet there during the week. The program for the week may be obtained from the extension division, Kansas State Agricultural college, Manhattan. An unusually good meeting is expected of the Kansas Improved Stock Breeders' association. Here is the program, which will be given February 8 in the old chapel of the main building.

- 8:30 A. M. "The Product of the Grade Herd," Dan D. Casement, farmer and stockman, Manhattan, Kan.  
9:30 A. M. "The Bovine Family and Its Domesticated Forms," (Illustrated) R. K. Nabours, professor of zoology, Kansas State Agricultural college.  
10:30 A. M. "Some Problems in Cattle Breeding," E. N. Wentworth, professor of animal breeding, Kansas State Agricultural college.  
11:20 A. M. General Assembly, auditorium. Music, Selections by Department of Music, Kansas State Agricultural college.  
11:30-12:30. "From Range to Feed Lot," Hon. John Clay, Chicago, Ill.  
1:30 P. M. Business Meeting.  
2:00 P. M. "The Breeding of the Grand Champion," R. H. Hazlett, farmer and breeder, Eldorado, Kan.  
2:20 P. M. "The Outlook for the Livestock Breeder," John Clay.  
3:00 P. M. "The Breeding of Purebred Cattle," (Illustrated by examples from the college breeding herd, judging pavilion) W. A. Cochel, professor of animal husbandry, Kansas State Agricultural college.  
4:00 P. M. Grand Livestock Parade of Breeding and Show Animals of Beef and Dairy Cattle, Horses, Hogs, and Sheep, (Judging Pavilion).

Headquarters for stockmen, agricultural building, room 10.

## To Show the Swine

The National Swine show for 1917 will be held at Omaha from October 3 to 10. The arrangements for the show are similar to those of 1916. The same buildings will house it in 1917 as were used in 1916, with such additional room as is necessary to properly care for the exhibits. Extra show ring facilities will be provided.

It is to be hoped that swine growers will lend the same support to the next show as was given to the show just passed. All the breeds represented in the last show will be again on hand, and it is likely that two or more additional breeds will have classifications.  
**J. J. Doty.**

National Swine Growers' Association.

## Poland China Meeting

The National Spotted Poland China Record association met in the Hotel English, Indianapolis, Ind., January 2, with 200 breeders present. These officers were elected: Charles E. Kurtz, president, North Salem, Ind.; J. W. Troy, vice president, Rose Hill, Iowa; Fred L. Obenchain, secretary-treasurer, Bainbridge, Ind. Directors: J. H. Boek, Kempton, Ind.; J. D. Gates, Ravenwood, Mo.; A. S. Boeco, Jeffersonville, Ohio; Roy Crum, Modesto, Ill.; Geo. W. Reeve, Rushville, Ind.; E. G. Perigo, Donovan, Ill. The report of the auditor showed a balance for the year of \$1,156.04. There are 115 new members, and 3,527 pedigrees were recorded.

## National Farmers' Assn. to Meet

With headquarters at the Hotel Savoy in Kansas City, Mo., the National Farmers' association will meet February 21 to 23. Every farmer is a member by virtue of his occupation and will be admitted to the meetings.

A board chosen to draft plans for bettering marketing and farm conditions was appointed last year, and their suggestions will be submitted. Government officials from the United States Department of Agriculture will be present to explain some of the legal phases of the work in hand and also the new federal law relative to public bonded warehouses.

C. D. Resler of Chanute, Kan., is president. Farmers interested can get detailed information from I. M. Wright, secretary, Waukesha, Wis.

Red amber sorghum did well in the Western half of Kansas in 1916; considering the unfavorable season. The acreage of this sorghum ought to be increased greatly in that section. Farther east excellent results are being obtained from the Kansas orange variety.

## Norton County Breeders Association

**SAMUEL TEAFORD, President** **CARL BEHRENT, Secretary**  
**Norton County Fair, August 29, 30, 31, Sept. 1, 1917** **H. A. JOHNSON, President** **FRED STROHME, Secretary**

**For Quick Sale** 12 extra choice spring Poland China Boars. Big type and good all over. Farmers prices. **C. F. Behrent, Oronoque, Kan.**

**25 BRED SOWS** and gilts bred for spring farrow. 8 spring boars and fall boar pigs. Everything on approval. **J. F. Foley, Oronoque, Kan.**

**Poland China Pigs.** 25 fall pigs at low prices. Either sex. Can ship over Rock Island or Mo. Pacific. **Geo. W. Goodman, Lenora, Kan.**

**Poland China Bred Gilts** Some very choice spring gilts sold either bred or open. Write for prices. **PETER LUFT, Almene, Kan.**

**Shorthorns** Six dark red bulls nine to eleven months old. Pioneer, a grandson of Avondale and Whitehall Sultan heads our herd. **N. S. LEUSZLER & SON, Almene, Kansas.**

## Percherons--Shorthorns--Polands

October gilts, bred or open, for sale, Bampton Bruce, by Lord Bruce heads my Shorthorn herd. **C. E. Poland, Almene, Kan.**

**We Have 3 Shorthorn Bull Calves** for sale. Got by a great grandson of Imp. White Hall Sultan and out of cows of the Lord Strathallen and Golden Fame Strains. **J. W. Liggitt & Sons, Almene, Kan.**

**Percherons--Shorthorns--Polands** A few nice spring gilts, by Jumbo Prospect, by Luft's Orange for sale open or bred to order. **C. E. Whitney, Almene, Kansas.**

**COL. W. M. PATTON, Livestock Auctioneer** **ALMENE, KANSAS** Devoting my time to the business. Address as above.  
**COL. C. H. PAYTON** Purebred stock sales and big farm sales solicited. Write or phone. Address as above.  
**NORTON, KANSAS**  
**L. J. Goodman, D. V. M.** Lenora, Kan. Hog vaccination a specialty.

# Big Ox Poland China Sale

## Steele City, Nebr., February 12

### 50 Head

**Cholera Immune Since Last May, by Double Treatment**



Two Anna Price Sows.  
Weight 962 and 680 lbs.

Tried sows, fall yearlings and spring gilts, bred to WILLEY'S OX, 1st prize Jr. yearling of Kansas 1915; SUPERB, greatest son of the World's fair Superba and Smooth Ox, our coming Jr. yearling show boar. The gilts are partly from sows bought at the best sales last winter, including some by BIG BOB, but largely the get of BIG BONE'S SON, one of the greatest breeding boars of the breed. We sell four daughters of Anna Price 11th, the \$775 dam of SUPERBA. Write for catalog, it tells an interesting story. Mention Farmers Mail and Breeze when writing. Send bids to Jesse Johnson in my care.

**Walter E. Willey, Steele City, Nebr.**

H. S. Duncan, Auctioneer. Jesse Johnson, Fieldman.

# Duroc-Jersey

## Bred Sow Sale

A draft sale from the well known F. J. Moser herd at Goff, Kan., to be made in the sale pavilion,

**Sabetha, Kan., Wednesday, Feb. 7**

**46 Head** Three Tried sows, seven fall yearlings and 36 spring gilts

The three tried sows are Wonder Queen to Be 388364, Ruberta Again 388368 and Lady Wonder Tat 389460. All are bred to Fancy Pal, the strongest Ohio Chief bred boar living today. The fall gilts are as choice from every standpoint as any like number to be driven into a sale ring this winter. The 36 spring gilts are equally as good. All are bred to the following boars: Nine to High View Chief's Col 199001, sired by World's Fair Col., the champion boar. 28 to Defender's Top Col., by America Top Col. 47941(a), the boar that sired more champions than any other boar in Indiana. The sale is made in Sabetha to better accommodate breeders attending. Free hotel accommodations for visitors from a distance. Catalogs ready to mail. Write today and plan to come to the sale. Address

**F. J. Moser, Goff, Kansas**

Send bids to J. W. Johnson in my care, general delivery, Sabetha, Kan.

Auctioneers—Jas. T. McCulloch and others.  
Fieldman—J. W. Johnson.





Sir Juliana Grace's De Kol, the Sire at the Head of this Herd.

## Albechar Farm Holsteins

Albechar Farm offers females of all ages for sale. Also bulls from calves up to serviceable age. Herd consists of 160 head of females, headed by Sir Juliana Grace De Kol. This bull is of world record breeding, and a great individual. He has a number of daughters in the herd, and a large number of cows in this herd are bred to him. There are more than 20 A. R. O. cows in this herd ranging from 15 lb. two-year-olds, to 24 lb. full age cows. There are daughters and granddaughters of Pietertje Hengerveld Count De Kol, King Segis, Pontiac Korndyke, Pontiac Aaggie Korndyke, King Spofford Walker, King Hengerveld Model Fayne, (King Hengerveld Model Fayne is a brother to the world's greatest cow, and is the greatest living son of King Fayne Segis, who is the sire of the only 50 lb. cow). Can make prices on one or more, up to one or two carloads. Prices consistent with good breeding and individuality. Write for descriptions and prices, or better still, come and make your own selections. Address

**ROBINSON & SHULTZ**

Independence

Kansas

## 75 Registered Holstein-Friesians 75

At Auction

Rock Brook Farms 10th Annual Sale of Registered Holsteins will be held at Union Stock Yards Sale Pavilion

South Omaha, Nebr., Tuesday, February 6th

Included in this offering will be daughters of Sir Pontiac Rag Apple 49334, a 31 pound bull; Kalmuck Skylark Johanna, a son of Katy Gerben; King of the Pontiacs Johanna Lyons 129656, a son of King of the Pontiacs 39087 and King Segis Helen Pontiac, a son of King Segis Pontiac, out of a daughter of Hengerveld DeKol, making him a brother to the \$50,000.00 King Segis Pontiac Alcartra, as well as a lot of cows and heifers in calf to above bulls. A lot of the cows will be fresh at time of sale and milking heavy. A lot of A. R. O. cows with records up to 22 pounds. In all a high class offering with every animal over 6 months old tuberculin tested and every animal guaranteed a breeder.

No better offering of registered Holsteins will be sold this season.

For Catalog, Address

**HENRY C. GLISSMAN, STA. B, OMAHA, NEBR.**

## Kansas Percheron Breeders' Sale

College Pavilion, Manhattan, Kansas  
Friday, February 9, 1917

**25 Stallions 20 Mares**

**PERSONALLY SELECTED**

Prize Winners—Producers—Promising Prospects—SOUND.

### CONSIGNORS

Ed Nickelson, Leonardville  
Dr. J. T. Axtell, Newton  
Wm. Branson, Overbrook  
A. H. Taylor, Newton  
Spohr & Spohr, Latham  
D. F. McAlister, Topeka  
Tom Doctor, Belleville  
A. M. Dull & Son, Washington

John Schmidt, Tipton  
Wm. Matthias, Lancaster  
Claude Miller, Ness City  
J. R. Neifert, Glen Elder  
C. E. Whitney, Almena  
Chaput Bros., Aurora  
Snyder Bros., Oskaloosa

The blood of the famous champions and sires, Casino, Scipion, Dandy, Minet, McDuff, Rabelais, Iena, and Paragon is predominant in the consignment. This sale offers an excellent opportunity to secure a high class Percheron stallion or mare. Write for a catalog today.

**C. W. McCampbell, Mgr., Manhattan, Kan.**

Fieldman—J. W. Johnson.

## Dispersion Sale

**Jacks and Jennets**

Courtland, Kan.,  
Thursday, Feb. 1



Seven jacks, four of them broke, including the herd jack, **Salitario**, 15 hands high, black with white points and sired by Missouri Star, a noted sire. Among the younger jacks is the remarkable grandson of **Limestone Mammoth**, that stands 16½ hands high and is black with white points. The offering is not a large one but one of the best ever made in central Kansas.

The six jennets are bred, are valuable and should interest jack breeders everywhere.

Included in the sale is the valuable four-year-old dark brown Percheron stallion, **Teddy 112503**. He is recorded in the Percheron Society of America book and will weigh easily a ton. Evidence of his ability as a sire will be seen sale day. He traces to the great Brilliant through both sire and dam. A standard bred stallion will also be sold. Write for further information at once. Sale under cover joining town.

Address,

**J. W. Smith, Courtland, Kansas**

Auctioneers: L. R. Brady, J. W. Shotwell,  
Fieldman, J. W. Johnson.

(Mention the Farmers Mail and Breeze when you write.)

## DUROC-JERSEYS

### Extraordinary

A Dispersion of a strong herd of the cream of breeding and individual merit.

**Clay Center, Kansas, Friday, February 2**

Three herd boars as follows: J's Good E Nuff; Pal's Kan't Be Beat and Orion's Highland King.

11 tried sows go in the sale that are wonderful producers and are by such boars as Defiance 2nd, Col. Advancer, J's Good E Nuff, Jones' Model Pal, Brigg's Golden Model, Orion's Cherry King, and Highland King. There will be 25 fall boars and gilts by J's Good E Nuff that are choice. Also five high grade Holstein cows and bred to a registered bull. Also a registered bull calf to be sold.

The Clay County Creamery Company with which Mr. Jones is associated is removing to Kansas City, which makes this sale necessary. For a catalog address

**W. W. Jones, Clay Center, Kan.**

Jas. T. McCulloch, Auctioneer.

J. W. Johnson, Fieldman.



# \$2 Brings You This Big LIFE-TIME GUARANTEED NEW BUTTERFLY Cream Separator

## On 30 Days' Trial At Our Risk

Then if pleased you can keep it and pay only a little each month out of your extra cream profits until the machine is paid for. In this way the separator itself will earn its own cost—and more before you pay. You won't feel the cost at all. If you do not need a large capacity machine you can obtain a smaller one on payments as low as

## Only \$2 a Month No Interest to Pay—No Extras

The prices we quote include everything. You have no extras to pay—no interest. You buy direct from the manufacturer and save nearly half. We give **30 days' trial** on your own farm. During this time if you don't find the New Butterfly the lightest running, easiest cleaning and best all around separator on the market (regardless of price), you don't need to keep it. Just send it back at our expense and we will refund what you paid, including all freight charges both ways.

## Used on More Than 100,000 Farms

Over 100,000 New Butterfly Cream Separators are now in use. No doubt some of them right in your own neighborhood. We have been advertising in this paper for years—the publishers know us and know we do just as we agree. Read these letters from just a few of thousands of satisfied owners:



### Seven Years Old—Runs Like New

"The Butterfly Separator we purchased of you about seven years ago is still doing fine work. I recently took it apart and cleaned the gears with coal oil. Now it runs like a new machine and works as well as ever."  
H. S. Stonebraker,  
Kokomo, Indiana.

### Twelve-Year-Old Girl Runs It

"We would not do without our Butterfly Separator or exchange it for all the other machines we have seen. Our little girl, 12 years old, runs it like a clock!"  
Mrs. P. E. Rude, Ashland, Wis.

### Made \$61.39 More from Same Cows

"We made \$78.61 worth of butter before we had the machine and in the same length of time we made with the Butterfly Separator \$140.00 worth of butter from the same number of cows."  
Thos. S. Kermosky,  
Point Aux Pius, Mich.

### Lighter Running and Easier to Clean

"We don't see how we got along without the New Butterfly as long as we did. It runs lighter, is easier washed and kept clean than the higher priced machines in this neighborhood."  
R. E. Morrison,  
Ollie, Mont.



Top of Milk Tank Is Only 38 In. From the Floor

Skimming Device Made of Aluminum One-piece Easily Cleaned

### NEW BUTTERFLY CREAM SEPARATORS

are the only ones having the patented one-piece aluminum skimming device, very easy to clean. Light-running vertical shafts, frictionless pivot, ball-bearings bathed in oil; low-down, self-draining milk tank; closed drip-proof and dust-proof bottom. Simplest and most sanitary machine on the market. Send for Catalog Folder.

(32)

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2177 Marshall Blvd., Chicago

Gentlemen:—Without obligation on my part, please mail me your **free** Catalog Folder and full particulars regarding your special easy payment offer on the New Butterfly Cream Separator.

I keep.....COWS.

Name .....

P. O. ....

State.....R.F.D.....

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Why not get one of these big labor-saving, money-making machines while you have the opportunity to do so on this liberal self-earning plan? Let us send you our big new illustrated Catalog Folder showing all the machines we make and quoting lowest factory prices and easy payment terms. We will also mail you a book of letters from owners telling how the New Butterfly is helping them to make as high as \$100 a year extra profit from their cows. Sending coupon does not obligate you in any way. Write today.

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