KANSAS FARMER For the improvement of the Farm and Home

Volume 50, Number 11.

TOPEKA, KANSAS, MARCH 16, 1912.

Established 1863. \$1 a Year

THE AMERICAN self-made aristocrat, born with a silver knife in his mouth, is too much our exemplar of success.

In business, in school, the church, the home, children are taught that success means money and that only, yet the winner of a vast fortune has used only one of his talents, developed one side of his character and gained one thing in the world. A horseshoe pitcher does that.

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Whether rich or poor, savant or simple, the death rate is the same everywhere—one for each person.

—I. D. G.

ing ing the rou



A living model of what is best in humanity the teacher wields more influence over childish minds and character than any save only the mother. Her heart and mind are reflected in the child





Fine Automobile at Sacrifice

Owing to sickness I will sell my fine new HALLADAY 50-h. p. five-passenger touring car at a sacrifice. It cost me \$2,750, but I will sell for a great deal less.

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If interested in owning a specially fine and reliable car, at a specially low price, write me by return mail. I will send full detailed description, answer any questions you may ask, and give you the price I will take for a quick sale. Address 215, care Kansas Farmer, Topeka, Kan.



Shall Oleo Destroy Your Market?

VERY farmer should take notice that at this session of Congress and probably within the next thirty days some oleomargarine legislation will be enacted.

Advices received by me from Washington within the last few hours indicate that if the present program is carried out the farmer is very likely to get the short end of this lawmaking. Without taking the time and space on this short notice to prepare for KANSAS FARMER readers a detailed statement of the situation, I now want to urge every reader to write his Representative and each of his United States Senators, asking them to support the Haugen House Bill No. 21225, which is the farmers' bill and which, in my opinion, is ample to take care of his interests.

The packers, who are the principal manufacturers of oleomargarine, have been busy for a year. They have carried on an active campaign among retail grocers, retail grocers' associations, laborers, labor organizations, women's clubs, etc., and by misrepresentation of the facts have elicited a lot of sympathy, resulting in letters, telegrams and petitions, which have caused Congressmen to feel that the Lever bill, which is the oleo manufacturers' bill, if made into law is the only thing needed to reduce the cost of living.

A woman's club here in Topeka last week petitioned Congress to remove the tax from colored oleomargarine.. Are the farmers of Kansas going to be legislated for by the women's clubs of the cities? Is it not time that the farmers do some writing and reso**l**uting?

If you are a member of the Grange, Farmers' Union, Farmer's Institute or any other organization, get such organization to petition your Congressman to support the Haugen bill.

One of the points of misrepresentation made by the oleomargarine manufacturers in their campaign is that the 10 cent tax on colored oleomargarine works a hardship on the consumer, and they want the tax removed

to give the poor spread for his lacy is shown oleomargarine seven per cent garine sold last uncolored, so on the colored tle to do with cost of oleothe consumer

WRITE TO YOUR CONGRESSMAN **TODAY**

man cheaper bread. The falby the figures on sales. Ninetyof the oleomaryear, 1911, was the 10 cent tax product had litadvancing the margarine to last year. Here

is what Swift & Company say in an advertisement: "The high price of butter puts it beyond the reach of thousands of families who could afford oleomargarine with the 10 cent tax removed."

With only three pounds of colored oleomargarine sold to ninety-seven pounds of uncolored, this statement is absurd and shows the extreme to which the oleomargarine manufacturers go in their appeal to the consumer for aid.

The desire of the oleomargarine makers is to color all oleo and to sell it for and in the place of butter. With oleo colored it is practically impossible for the consumer to know whether he is buying oleo or butter. Every pound of oleo sold to the consumer under the belief that he is getting butter displaces one pound of your butter and narrows your butter market just that much.

The 10 cent tax on colored oleo has been the only safeguard against the sale of oleo as butter. Ninetyseven per cent of the oleo sold in 1911 was uncolored, showing that people will buy oleo when they want oleo. Why is it necessary to permit all oleo to be colored and cause every pound to become a deceiver of the consumer and a deceitful competitor of butter?

To color all oleo makes that product a thief in the night which steals from you the value of your butter and the value of your cows.

Write Senator Charles Curtis and Senator Joseph Bristow to support and work for the Haugen bill. If you live in the First Congressional District, write D. R. Anthony, Jr.; if in the Second District, Joseph Taggart; if in the Third District, Phil Campbell; if in the Fourth District, Fred Jackson; if in the Fifth District, R. R. Rees; if in the Sixth, I. D. Young; if in the Seventh, George Neeley, and if in the Eighth District, Victor Murdock. Address senators and congressmen, Washington, D. C.

When you write these men tell them you want a reply. If they do not say they will support the Haugen bill, write them again. If they will Jakonnen not support this bill, send their let-

ter to Kansas Farmer.

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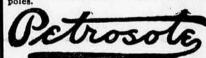
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OUR GUARANTEE

THE AMERICAN FARMER.

The farmer of the old world is most frequently a tenant who does little or no work. He is the brains and the financier of the farm and the work is done by peasants who are not paid for brain work and who succeed each other, from father to son, on the same farm for generations. The land is owned by the capitalists, it is operated by tenant farmers and the labor is done by

To American eyes this does not look like a desirable state of affairs. The American land owning farmer is at once the basis of our social order and the bulwark of our institutions. He pro-duces the bulk of the wealth of the most wonderful country on earth, upon his prosperity the world of business de-pends and his vote controls the political destiny of the nation. There is no class of citizens so important. Not only does business success, but our very existence, depend upon his prosperity.

To such a man the change of condition to that of the European farmer or peasant would be most violent and in-tolerable and yet, what is he doing to prevent it?

During the last hundred years, when our farming area has so rapidly expanded, it has been the common practice to take from the soil all it would give and then move to virgin land and continue the rebery. The land worn by this method has sold for what it would bring, and naturally fell into the hands of the men who had surplus money to invest. The result of this has been the increase, in mumbers, of the very targe farms and of the very small ones. The last of the very small ones. The last census of the United States shows the greatest percentage of increase in the number of farms of 19 acres or less. The next greatest increase is in the numbers of farms of from 175 to 499 acres and those from 500 to 999 acres, while these of 50 to 90 seres and those of 100 to 174 acres have decreased in numbers in the 10 years covered by the ceasus.

Are these figure significant? They seem to indicate that successful farmers, seem to indicate that successful latmers, capitalists, business men who play at farming as a side line, and the "ide rich" are getting increasingly larger holdings, while the real farmer, or the man who "retires to the farm," is obliged to do with less land. It might also seem a threat that, if this condition continues and farmers been on moving to tinues and farmers keep on moving to town, the land would gradually pass into the ownership of the few to be operated by tenants or "hired help," while the real, land owning farmers will be forced into the class of track gardeners or small dairymen.

There is but one remedy—better methods. Better methods mean better live stock, better machinery, better home conveniences, better seed and better training for the young. They mean the use of more brains and less brawn. They mean the making of farming a pro-fession and not a job, and they mean the salvation of the country from this possible threat of becoming one of land-lords and peasants. In the last analysis it means that "it is up to you" as an individual. The welfare of the nation is involved, to a large extent, in the course which the farmer of the next generation will pursue for himself and his children. No country can retain its maximum prosperity unless its farms are operated by the men who own them. Upon the action of the individual depends the welfare of the community.

10 N N GIVE ADDRESS WHEN WRITING.

Will T. S. Rankin, who wrote KANSAS FARMER on February 24, please write again, giving his post office address? Please be sure to give address when writing. On Kansas Farmer mailing list are more than 60,000 names, and it is a big job to locate a name when post office is not known.

WASTING MONEY ON ROADS.

There is a feeling among Kansas FARMER readers that the present read laws of Kansas are not good, and farm-ers are dissatisfied with them. We will be glad to hear from farmers on the subject and to assist in securing the passage of such laws as seem to best meet the state's demand. The Kansas Good Roads Association has in mind a revision of the Kansas road laws as indicated by H. S. James, the president, who says Kansas is spending \$3,000,000 a year on road work, nearly half of which is wasted because of the lack of a systematic good roads plan and the fact that some of the work is of a tem-

porary character.
Mr. James says his organization hopes to have a new road law passed at the next session of the Legislature. Some of the features which they hope to secure is a state highway commission, with headquarters in Topeka, and a state good roads engineer, with headquarters in To-peka. All road work done in the state, whether by county or tewnship, weald come under the supervision of the commission and engineer. In such a way the officers of the association believe that some comprehensive scheme of highway improvement could be worked out and more effective road work secured by the co-operation of different road districts and counties.

The good roads association is conducting a campaign for the organization of county good roads associations in every county of the state and through these local associations expects to crystallize the good roads sentiment of the state so that the proper kind of road laws may be secured.

INITATED AND COPIED.

It is said that "imitation is the sincerest flattery." Karsas Farmer is flattered, then, by numerous publications which are imitating our seed corn articles, our front page cartesas and corr front page epics. These features of KANSAS FARMER are increasingly popular. Almost daily the mail brings com-mendatory tetters, while personal ex-pressions of approval are numerous. The ics have been queted very front page epics have been queted very widely by other papers, and at least one of them is attempting a similar feature. One of these epics was made the subject of a feature in a mabine school entertainment. They are found mently framed and hung on the walls of trust-ness houses and in residences all over the state. Scrap books contain them, live stock sale catalogs quete them, and no less than three of them are found in an official state report of another state.

In another place in this paper is printed a letter from a swine breeder who tells of the conversion of a former Iowa man from corn to alfalfa as a heg feed. Old breeders who were in the busiin 1901 will remember how their hogs had alfalfa only to live upon and of what strong, vigorous litters the brood sows produced the next spring. Our correspondent is making a gain of three pounds per day on his hogs by feeding alfalfa and Kafir oern stalks left by the cattle. He states that he never could make such gains before. Experience everywhere teaches that our hogs get too much corn, and necessity occasionally enforces this knowledge.

Last week in our editorial on investing surplus money in bringing the farm up to the highest degree of efficiency and comfort by way of improved methods of cultivation, improved machinery and up-to-date buildings, we failed to mention the value of paint. A coat of paint will add a hundred dollars' worth of value to a house or barn, if the farm is for sale, and if not for sale well painted buildings will last at least one-third longer than unpainted. Do not neglect the painting. It pays, and pays

AN AGRICULTURAL BILL.

As has already been stated in these columns a bill has been introduced in Congress and known as House Bill No. 18160, for the establishing and support of agricultural extension departments in connection with agricultural colleges, to give instruction and demonstrations in agriculture and home economics, in other words conducting farmers' institutes, farmers' short courses, educational trains, field and domestic science demonstrations, exhibits, bectures, etc. This work heretofore has been supported by state funds only.

The bill anticipates the payment of \$6,000 aimmally to such departments, with an additional sum of \$300,000 arnually for each fiscal year, and a like annual increase every year up to an annual budget of \$3,600,000 for the purpose set forth in the bill. The amount is then to be paid out to the various state departments of agricultural extension, proportionate to the state's ratio of agricultural population with reference to the entire agricultural census of the United States.

The whole matter is in the hands of Congress, and Kansas representatives and senators will quite likely vote on it as the people want. The bill has the approval of the American Association of ricultural Colleges and Experiment Stations, and we presume has the en-domental of the Kansas Agricultural College. Ten million dollars are annually appropriated for the maintenance of the soldiery and we say nothing about it, now let's say something about \$3,-1000,000 for the progress of agricultural affairs in this country. If farmers fail to get what they want it is largely due to their failure to go to the fountain

This country does not need more farmers, but better ones. There is already enough competition in the country, and the use of modern machinery makes the man from six to ten times more efficient than he was when Kansas became a state. The effort to induce working people to go from the cities to the farms to better their condition springs from interested motives. Farmers don't want this kind of help, and such people could not hope to win a livelihood on the farm except in the capacity of hired help. The only thing that will drive the city man to live in the country is an empty stomach and if he has this it is evidence that he has failed, through fault or misfortune, and will be a failure on the farm. Changing the courses of study in our public schools so as to inject a little common sense into them and make of them the means of training our young people for their future basiness and fives, is the solution of the matter. K K K

The decision of the officers of the National Dairy Union, in consultation with other organizations representing the agricultural and dairy interests, to unite in favor of a bill designed to prohibit the manufacture of oleomargarine in imitation of yellow butter, is a logical one. This has been accomplished in the Haugen bill. In no other way can there be any assurance that oleomargarine will be consumed under its own identity and upon its own merits by those to whom it is served at table. The dairy interit is served at table. The dairy interests, in spite of the common assertions to the contrary, have no wish to impose upon oleomargarine the burden of any tax beyond what is necessary to place its manufacture and sale under supervision, to the end that fraudulent sale and substitution may be prevented. They desire only that the substitute for but-ter shall be not only sold but consumed as such. None can deny the righteous-ness of this purpose. Write your two United States senators and your congressman at once to protect your butter and the consumer against fraud.

INSTITUTE INSTRUCTION.

The farmers' institute is becoming mere and more a factor in the preparation of the farmer for better farming and live stock methods. This is so because the institutes are today more practical in their teachings than ever before. Speakers are learning that their talks must be adapted to the conditions of soil and chimate in the community in which the institute is held. More than this, however, is that the institute lec-turer of teday better understands the fundamentals of agriculture than ever before. The institute lecturer, like ev-

erpone else, has had a great deal to learn. He is learning constantly.

The demonstration in stock judging, resulting in horse, mule and cattle shows and exhibits of farm crop products, is an important leature in practical in-struction. These demonstrations are val-uable. They have been made possible by co-operation of farmers and business men in the institute idea. Often the business men of the town in which the institute is held ofter liberal prizes for the best exhibit of come or wheat, or for the best horse or new. These prizes have the effect of bringing out a show and give the institute lacturer a good chance to illustrate his talk. A horse show in connection with the farmers' institute recently held at Clearwater, Kansas, proved exceptionally interesting. Prizes amounting to \$360 were contributed by merchants and staffion owners. Twelve stallions, 60 celts and 20 mules were shewn. Five hundred persons attiended the institute, and more than that mam-ber were present at the dams show.

P. 101 101

Kafir is coming into its proper place in the recognition of the Kansas and Oklahoma farmer. It is a vindication of the long time preaching of Kansas Farmer. The editor has for 20 years known the value of Kafir. Its value was impressed upon him by the uncertainty of corn and the ability of Kafir to supply plenty of grain and forage during years when corn failed. The ver-tainty of a Kafir yield justifies every farmer in the western two-thirds of Kansas in planting an acreage which will take care of his grain and forage needs. After this has been done, plant the remaining acres to corn if he wants to take a little gamble on the weather. We would use Kaffir as we would a life insurance policy. Every western farmer, banker and merchant should whose it up for Kafir. It is the nearest sure thing in the feed crop line.

The continued cultivation of cotton has ruined the agriculture of the south-ern states. The southern press is making a desperate effort to build up a suc-cessful diversified farming, but cetton growers hesitate to give up the cotton. The press is urging that growers keep tab on the cost of growing cotton and ascertain for themselves the loss or profit in its cultivation. Those in a position to know claim that the cotton is grown at a loss or at least at a small margin of profit. If a cost tab was kept on a good many of the crops we grow in Kansas there would be less growing of grain for market and the growing of more feed to be marketed through live stock.

It costs a billion dollars annually to pay the bills of the federal government, and of this \$10,000,000 are used in expenditures directly toward the upbuilding of agriculture and \$10,000,000 more used in a manner which indirectly benefits the farming public. One-fifth of our entire population is angued in farming. On that vocation more than upon any other does our business pros-perity depend. We daim that it does not get its share of the government's expenditure. We are for more money to help the agriculture of the country and less for navies and the like.

SELECTING THE

Silo inquiries have been coming thick and fast the past few months. Inquiries, until recently, pertained to the value of silage as a feed, the methods and manners of feeding silage, crops for silage, methods of filling silo, etc. All these have been answered by Kansas Farmer in a manner not even approached by any other agricultural publication in this western country.

Recent inquiries have nearly all been

Recent inquiries have nearly all been directed to the kind of silo a farmer should build. It is my judgment that salesmen are urging upon Kansas farmers every kind of a silo ever constructed. Silo manufacturers have learned that the Kansas farmer is in the market for silos, and the best as well as the poorest structures are being offered. Some of these structures are those which years ago were discarded in other sections. The relative merits of the different structures, as presented by salesmen, are so confusing as to leave the farmer in doubt as to the kind of silo he should

It is the purpose of this article to give my opinion of the value of these different structures. Be is understood that what is here written is my opinion, based on what I have been able to read and hear and reason therefrom and from what I know by experience.

H. S. C., Garnett, Kan., writes: "Give me information on silos built of 2x4's, mitred and cribbed as the old grain elevators were; also those built square in the same manner except that 2x6's or 2x8's are used and blocked apart, then cut across the corner with 2x6's and lined by flooring put on vertically. Would like your opinion as to the efficiency in keeping the silage and the different methods of making them air-tight. Would also like to know if this type is displacing the stave silo in localities where both have been used for a number of years."

In this inquiry, are involved the corner.

In this inquiry are involved the same questions presented in a large number of inquiries, and in commenting thereon will answer numerous readers.

The two kinds of silos mentioned in the above inquiry are being pushed by local lumber yards as an offset against the Washington or Oregon fir stave silo. These two types are not claimed, I believe, to be any more, if as efficient, in the preservation of silage than the stave silo, but are represented as costing less money and less liable to damage by wind. In my conversation with farmers who have considered the building of the 2x4 cribbed silo I find the farmer has an idea that it can be built from the poorest kind of lumber—culls and refuse —and lined with building paper, and become a good silo. This, I say, is the impression I gain from farmers with whom I have talked, and I feel safe in saying that such a structure will prove a disappointment and an unnecessary and expensive experiment.

In presenting the matter in this light In presenting the matter in this light to one dealer who is selling such silo, I learned that it was regarded by him as necessary that clear, straight and sound 2x4's be used; that the inside be lined with matched lumber nailed up and down, the lining treated with a preservative, and treated every few years, and that the exterior be covered with drop or lap siding or metal siding. I have obtained at this writing no figures on cost of this silo finished in this manner, but I am confident it will cost as much but I am confident it will cost as much as the best stave silo, and I do not be-lieve it will be so durable. A cribbed silo erected in this manner will absorb moisture, the moisture penetrating every one of the 3,000 or more joints therein and, not readily drying out, will rot. Such sile should not blow over. The doors as cut and placed are not convenient. The hexagonal or 8 cornered slope, too, will result in greater loss from spoiled silage than in a round silo.

The erection of such silo, even in the

best possible manner, cannot be other than an experiment, and built in the cheapest manner, with paper or roofing for lining and with no outside covering, cannot prove other than a makeshift and disappointing.

In Kansas a few of the 2x4 cribbed silos were built last year in the neighborhood of Tonganoxie. I understand it is claimed that 30 were erected. I have been able to locate only three. They have been used only one season and how built and with what results, I cannot say. When roads are passable I will visit these silos and may have something further to write.

Comment Suggested By Numerous Inquiries Regarding Most Every Phase of Construction

By T. A. BORMAN

The type of silo mentioned in the above inquiry wherein 2x6's or 2x8's are framed up in an octagon and lined, has been, in days past, used and regarded as the best silo of their time. This is what I read, never having seen one. A strong frame is built. The 2x6 or 2x8 lumber framed in sets or girts, each girt to occupy on the silo a position relatively the same as a hoop on a stave silo. These girts are spaced by 2x6's upright at the corners, the frames being closer together at bottom than at top. The girts should be of the best lumber obtainable. The silo book from which I take the facts says they should be of oak 3x8's and 16 inches apart at bottom third of silo and 2 feet apart to the top. If 2x6 pine girts are used, I would recommend spacing only one-half above distance. Each of the eight corners is blocked out on inside to make a less sharp corner and to more nearly approximate a circle.

On the inside, this frame is lined with the best matched lumber, the shift failed the farmer, would buy a good silo. Fifteen years ago I gave "Buff Jersey" \$100 to lecture before the Kansas Dairy Association and make his talk. I was secretary of the Association and it was the Association's money I spent. The expenditure was worth while, too, because the first silos built in Kansas were the result of his talk.

Pine is not a good lumber for a silo, regardless of the kind of structure in which it is placed. I am confident experience has proved this. Some stave silo manufacturers are supplying yellow leaf to customers who desire a cheap silo. It is tongued and grooved, is straight and free from knots, and I believe ranks next to the Oregon or Washington fir staves. In a frame silo I am confident that Oregon or Washington fir is the best there is. Such lumber has proven the best for the purpose. It does not warp and does not easily rot. There are grades and grades of fir. Buy the No. 2 clear; it is the best grade

In the language of the show fakir, "Pay your money and take your choice." But choose between the best fir stave sile and the best re-enforced tile or concrete—all

to be guaranteed by responsible builders. But, erect a silo. You are silo each year losses, and you build the best



paying for a good through your can afford to you can choose.

boards being put on up and down. One thickness of matched flooring is nailed onto the girts. Over this a thickness of tarred paper is carefully placed. On top of this a second thickness of matched lumber lining is used. The inside is coated with tar or other wood preserva-tive. The entire exterior is then finished with siding. Care should be taken that the carpenter understands his job; that he gets the sides vertical; that the girt joints are well matched and thoroughly well nailed; also, that proper spacing is given girts to assure the desired strength.

This silo appeals to me as probably the best of the home-made frame type. It will be remembered, however, that the responsibility of securing good lumber, acquiring proper strength, etc., lies with the builder, and he assumes his own risk in proper construction and consequent durability and efficiency of the silo.

Another reader wants to know about a silo made of two thicknesses of 2x4's nailed together, with broken joints, set on end and hooped up as a stave silo would be. I have not seen such a silo and do not know that any such were ever built. I would not recommend it; think such silo would be troublesome to erect, almost impossible to keep together and practically impossible to match joints to prevent great loss of silage. I think it would fall down when empty.

A subscriber who remembers reading of the Buff Jersey sile years ago asks why he never hears of it through the papers of these days. Our reader does not hear of such silo because it proved an expensive makeshift. Such silo was of the stave type, but built of 2x6's, not tongued and grooved, and not even the edges made straight. Knotty and sappy pine lumber was used, and it soon rotted out, the knots fell out and frequently the silo tumbled down. "Buff Jersey" was an Illinois dairyman. He did as much to interest the western farmer in the silo as any other one man. He urged a silo of any kind. He figured that a makeshift like his, without roof, only a door or two, and barbed wire for hoops, would give a farmer a taste of using silage, then when the make-

milled. A responsible silo concern will deliver any length of stave up to 40 feet, with no staves showing sap or loose knots, and a silo of such staves painted outside and in and the hoops and one hour tout will lest a long length. anchors kept taut will last a long, long time. It is my guess that 75 per cent of all the silos in use are such.

Some inquiries are made with reference to the tile silo. This is a structure built of hollow tile and laid up as stone or blocks. I know of none of these silos in Mansas. The manufacturers of such silos in Kansas. The manufacturers of such silos claim they are efficient. I have photograps of such silos showing them cracked, one side fallen out, etc. I have no doubt tile structures can be built in such way that they will not break. An occasional inquiry is received as to the building of brick and stone silos. I do not find that such structure have come not find that such structure have come into general use, and for that reason assume that there are objections to them. I do not believe that stone or brick structures are sought by Kansas farmers and have given little study thereto.

By far the largest number of inquiries received regarding the various structures apply to the 2x4 cribbed silo. I take it that this is because this type is new, at least in Kansas, and because the stave and concrete silos are better understood -especially, I think, is this true of the stave silo. Farmers as a rule desire to build permanently when possible, and on this account the concrete or cement silo attracts attention. Beyond any question a concrete silo is as durable as it is possible to build. This is a type of silo in which mistakes in building frequently occur. Cement and concrete are such good and useful things that they are frequently abused with disappointing and disastrous results. The man who builds such necessarily takes chances on failure. If he builds himself he expects to assume the responsibility of failure. If a contractor builds, make him guarantee the structure against failure. Not every farmer will build a cement silo any more than every farmer will build a concrete barn—although cement and concrete are equally good and durable for

There are several types of concrete or

cement silos. There are the solid and hollow wall silos built of cement blocks. The hollow wall type should be chosen in preference to the solid black type. The dear air space is advantageous. I know of these types of silos breaking and on such account rendered of no value. If the structure fails the breakage is due to faulty construction. The metal lath type of cement silo has been built in considerable numbers in Kansas, the idea being that of the Kansas Agricultural College, which has supervised the building of quite a number of these silos. This is a silo formed out of metal lath and then plastered inside and outside, coat upon coat, until it is built up to the deupon coat, until it is built up to the desired thickness which, in the case of a silo 30 feet high, would probably be four or five inches thick at the bottom and two or three inches thick at the top. Some of this type have cracked and been rendered useless. This, too, has been the result of faulty construction, and not the fault of the general plan. I cannot say that any of those, except one, the building of which was supervised by the college, has failed.

Some concrete silos have been built in

Some concrete silos have been built in Some concrete silos have been built in Kansas. A form is necessary for the building of such silos. In some instances home-made forms are used, and in other instances patented forms. The material is a mixture of cement, sand and crushed stone. I understand that the contractors who build such silos recommend the use of Joplin grit instead of stone.

In the erection of a silo built of cement or concrete, particular attention must be given to the use of clean, gritty sand. A cement salesman not long ago told me that next to the use of too little cement, the use of the wrong kind of sand was responsible more than anything else for the failure of all kinds of ce-ment structures. Clean, sharp river sand should be obtained for use in silos. Bank or sandbar sand is not believed to be

Insofar as the structure itself is con-Insofar as the structure itself is concerned there is no disputing the fact that a cement or concrete silo is more durable than the best wood. When it comes to the initial cost I believe that a first-class reinforced concrete silo will cost more money than the best wood. It is argued that the concrete silo, when built by the farmer himself, costs less than wood. The farmer can figure any way he pleases—whether his time is worth nothing or whether it is worth \$1.50 or nothing or whether it is worth \$1.50 or \$2.50 per day. As a rule, in silo building the help and teams are needed either in or caring for the crop. Unless men and teams are idle it costs something to work on the silo, and the farmer is justified in charging his labor against the cost of silo. If the farmer builds his silo himself and the silo fails, he loses the entire amount of labor and money invested. I recommend employing a computant cament and congrete worker competent cement and concrete worker as supervisor. Better still, I believe, employ a contractor to do the job and make him guarantee it.

It would seem that cement silos, like-It would seem that cement silos, likewise steel and galvanized iron—the latter two of which seem to be in the experimental stage—would be permanent and satisfactory silos. The quality of the ensilage coming from such silos is, of course, a matter of great importance. There is quality in silage just as there is in feed taken care of in any other way. Roughage cut and cured and placed under cover has greater feeding value than the same roughage stacked in the than the same roughage stacked in the field and allowed to bleach and deteri-orate as a result of the elements. This roughage put into a silo should be placed in a structure which will preserve its value. There seems to be a belief that the steel, concrete, brick and tile silos do not preserve silage as does the wood silo.

The experiment station of Storrs, Connecticut, has recently gone into the question of silage preservation very thoroughly in a recent bulletin which is by all odds the ablest and most complete work written on the subject of preservation of silage. The bulletin treats principally on the changes which corn undercipally on the changes which corn undergoes after it has been placed in the silo, and explains the curing process minutely. From this bulletin we learn there are two acids developed during the curing process of the silage, which are lactic acid and acetic acid. These acids serve not only as a preservative but also as

(Continued on page 22.)

ETHIERT GARLES

Over in southwestern Iowa, just a few miles from the Kansas line, there were recently held two hog sales on the same day. These sales were at different towns, held in the midst of the snow blockade, and one of them was held at night after the other one closed. One of these sales averaged over \$88 per head and the other over \$85. Only a few days prior to these sales there was another hog sale held in Missouri, in which other nog sale held in Missouri, in which one litter of pigs sold for over \$800, and other sales in other states have attained to almost as good results. Such sales are getting more and more numerous, while some greatly exceed the figures here given. Another Iowa breeder just held a sale in which the average per head was nearly \$105 but the price per head was nearly \$105, but the sale reports from states further west do not show such averages.

Why is this true? Why is it that the breeders of other states who use the same blood lines and feed the same high priced corn, can get such averages high priced corn, can get such averages as those quoted above, while the breeders of the west side of the corn belt must sell on a lower level? There can only be one answer to this question. Buyers are willing to pay these prices because the animals bought are profitations. And this ble to them at such figures. And this is just the difference between breeders. is just the difference between breeders. Those who know their business and pay these high prices do so because of the real value of the hogs as money makers. Those who are forced to sell at lower averages are simply taking their own medicine. When they attend a sale or send a bid they select the cheapest animals and when they make a sale of mals, and when they make a sale of their own, the greater majority of their buyers do the same thing. This puts a premium on the cheap stuff, and this cheap stuff will produce cheap stuff. As a breeder says in a letter printed in another part of this paper: "Breeders should be more particular about what they sell for breeding purposes. I seldom attend a sale in which there is not eight or ten head, and sometimes half the offering, which ought never to sell for breeding purposes." Good hogs bring for breeding purposes." Good hogs bring from \$50 up, and the farmer who buys a cull for \$25 or \$30 advertises that he has a hog of certain lines of breeding, when he is simply a registered scrub.

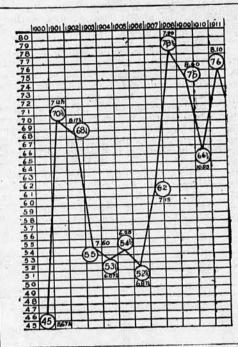
Kansas has good hogs of all breeds and many of them, but the breeders do not get enough money for the good hogs which they sell and they often get too much for the poor ones. The time has come when, with the high price of feed and the increasing price of land, this condition must change and there is only condition must change, and there is only one way to change it. There is no animal on the farm that responds as readily to good care as the hog, and this care must be given by the breeder himself. In very few cases can hired help be depended on to give the care and at-tention to the hog breeding business that the farmer himself must give if he sucthe farmer himself must give it he succeeds. The stock on the small farm must be of the kind and quality which will bring the most profitable returns, and here is where the small farmer has the advantage over the large one. He can and does give his hogs personal attention tention.

And this brings up the question of feed. In the accompanying chart is shown the fluctuations in the price of corn on the Kansas City market for the years 1900 to 1911, inclusive. The corn years 1900 to 1911, inclusive. The corn prices are shown in the circles and are the top prices reached in the several years. The other figures represent the top prices of hogs for the same years, though these prices do not coincide with the prices of corn in the same months. It will be noticed that the general trend of prices for corn is upward, and it does not get as cheap as it has been in some former years. The top prices for corn are easily explained by the season, but they show an upward tendency. But the real information contained, and the real purpose of the chart is to show the real purpose of the chart, is to show the margin between the price of corn and of hogs each year. Excepting 1910, when the price of hogs attained an abnormally high figure, and 1908, when the other extreme was reached, there has always been a margin in favor of the hog, which shows comparatively slight variations. These figures prove that, with good methods and good stock, it is possible to feed hogs at a profit every year, and that the man who has good stock and uses good methods will make money on

AND THEIR

Breeders of Pure-bred Hogs Not so Much Affected by High Cost of Feed

By I. D. GRAHAM



TOP prices for corn on the Kansas City market are shown in the circles. Top prices for hogs for the same years are placed adjacent. These do not always coincide in months, and corn prices vary much more widely than do hog prices. Note the margin is always in favor of the hog except in unusual years, and they are few. Left hand column shows cents for the corn chart.



hogs more often than he will lose. Under our present conditions and those

which are likely to confront us for years to come, success in the hog business cannot be insured without good blood. The pure-bred hog is the most economical machine for converting the crude grains and grasses of the farm into a product for which there will be a market as long as mankind eats pork. The pure-bred hog is the poor man's friend, and with him in the pen the question of price for feedstuffs need not cause concern. It will settle itself. With the pure-bred hog of quality the high priced feeds are more economical than are low priced feeds with the scrub.

At the Nebraska Station it was found that by the proper feeding of pigs they can be made to pay a profit even at the present high price of corn. Corn worth 60 cents brought 80 cents when fed to growing pigs. Pigs fed on corn alone cost \$4.35 per 100 pounds of gain and made a daily profit of 16 cents per pig. These pigs required 518 pounds of grain for each 100 pounds of gain. Pigs fed on corn and alfalfa hay in racks consumed only 448 pounds of grain for each At the Nebraska Station it was found on corn and alfalfa hay in racks consumed only 448 pounds of grain for each 100 pounds of gain and cost \$3.81 per hundred, with a daily profit of 26 cents per head, as compared with the daily profit of 16 cents made by the corn alone lot. Another lot was fed on corn, 9 parts and chopped alfalfa, 1 part. These consumed 441 pounds of grain for each 100 pounds of gain; cost \$3.94 for each 100 pounds, and made a daily profit each 100 pounds, and made a daily profit of 25 cents per pig. Another lot fed on half corn and half alfalfa meal only, ate 346 pounds of grain for each 100 pounds of gain; cost \$5.49 per 100 pounds of gain and made a daily profit of only 4 mills per head. Although a part of the same experiment the last result is quoted only to emphasize the absolute necessity of proper feeding. Both corn and alfalfa meal are good feeds, but when they are improperly combined they become poor feeds. These hogs that had the half-and-half ration were not in marketable feeds. These hogs that had the half-and-half ration were not in marketable condition when all the others were ready

and it seemed impossible to fatten them on such a ration.

The importance of these feeding ex-periments lies in the fact that they were conducted during a series of years and that each year brought practically the same results, thus showing that it is possible to make money, even when hog feed is high. They also show, in no uncertain manner, that it is possible to uncertain manner, that it is possible to waste money when the feeding is not properly done. The combination of corn and alfalfa hay in racks required 7 pounds more grain per 100 pounds of gain, but the cost per 100 pounds of gain was 13 cents less and the daily profit was 1 cent more than with the lot fed 9 parts corn and 1 pert showned lot fed 9 parts corn and 1 part chopped alfalfa, while the lot that was fed half each of corn and alfalfa meal ate only 102 pounds of grain less per 100 pounds of gain; cost \$1.68 more per 100 pounds, and showed a daily gain of 25.6 cents less. In other words, the man who feeds corn and alfalfa hay in racks is producing pork at a cost of \$3.81 per 100 pounds. If he uses 9 parts corn and 1 part chopped alfalfa he makes pork at a cost of \$3.94 per 100 pounds, while if he feeds one-half each of corn and alfalfa pork product costs him falfa meal his pork product costs him \$5.49 per 100 pounds, and his hogs are not in good condition.

In another experiment where sorghum seed was used as an element in the ration, it was found that when corn alone was fed to hogs it brought 80 cents per bushel; 9 parts of corn and 1 part of chopped alfalfa made the corn bring of chopped alfalfa made the corn bring 82 cents per bushel; 9 parts of sorghum seed and 1 part of chopped alfalfa brought 50 cents per bushel for the sorghum, while a ration of 45 per cent each of corn and sorghum with 10 per cent of chopped alfalfa, made the grain part bring 55 cents per bushel.

A ration of barley and corn with alfalfa does not give as fast gain or as much profit per hog during the growing and the fattening periods as a ration of corn and alfalfa.

of corn and alfalfa.

The substitution of 5 parts tankage, 5 parts bone-meal, or 25 parts shorts,

for corn, in a ration containing 90 parts corn and 10 parts chopped alfalfa, in-creases the cost of gains and decreases the profit per pig during the fattening period.

period.

The substitution of 25 parts emmer, barley, wheat, or milo, for corn, in a ration containing 90 parts corn and 10 parts chopped alfalfa, increases the cost of gains and decreases the profit per hog during the fattening period, except-ing emmer, which in this test only increased the profit per hog. The wheat increased the gains but decreased the profit. The emmer also increased the gain. Barley and milo decreased the gain as well as the profit. Milo was worth the same price per bushel as barley in this test.

These results are given in some de-tail, not because they are final, but be-cause they agree with results obtained in other states and because they show that any farmer who will equip himself with good hogs and feed them properly can make them pay him 82 cents per bushel for his corn, but he cannot do it with poor hogs. No feeder can afford to waste his high priced corn and corn serve stock for any length of can afford to waste his high priced corn on cheap, scrub stock for any length of time. High priced feed compels the farmer to use well bred stock or none. If he would make a profit he must have the right kind of hogs or go out of business, and it is doubtful if it is ever profitable for any farmer to be without hogs at any time. Besides supplying the farmer with the best possible market for his corn, the hog will buy, and pay for, much of what would become waste material without him, while the fertility he brings to the farm will reduce the actual cost of his keep. Also, the treactual cost of his keep. Also, the tre-mendous marketing of hogs from all parts of the corn belt on account of the cholera scare has forced the price down to about 6½ cents when conditions, in all other respects, would now indicate a 9-cent value. This low price with high a 9-cent value. This low price with high priced corn can only mean one thing: Hogs will be high priced before another year rolls by, and the man who does not have on his farm, a goodly number of these money making machines should buy now. buy now.

The breeder does not need to worry himself so much over the high price of feeds. His prices will be remunerative if he has the right type and quality of hogs for sale. And he will never want for a market. If any breeder or farmer needs the best hog the genius of man has been able to develop it is the man on the small farm, where every acre must be made to produce the greatest possible revenue. Under present conditions no man can afford to "fool" with scrub stock. It is simply a handicap which prevents him from getting on and which, in too many cases, fools him till he wonders why this is so. The breeder of pure-bred swine has a world of op-portunity before him which is not ex-ceeded by that of any other breeder. But he can only aspire to the top of his profession when he breeds and sells only top-notcher hogs. Kansas needs better hogs and more of them. There are few herds where the general average of quality cannot be raised. This is true in any state or country, but Kansas cannot reach the prices that are attained in other states until she gets the hogs and the buyers which they have. Breeders of these other states have reached their success by a careful study of their business and an equally careful study of the methods and successes attained by other breeders.

In reaching the successful plane to which the breeders of these other states been have attained, they have been im-measurably helped by the state fair. Kansas has as good hogs as any state, but not nearly so many of them, and the young or inexperienced breeder is sorely handicapped by having had no state fair in which he could learn the lessons he so badly needs, by comparing the results obtained by other breeders. Iowa breeders make money with their hogs on high priced lands and high priced feeds. Kansas breeders do not yet get such prices for breeding stock as they should because the public appreciation of their real value is not what it should be and because there are not enough of the right kind of hogs. A good, well managed state fair, supported by the state, would do much to correct this, educate the people up to the real value of pure-bred stock and bring the breeders such prices as they should have.



GOOD HOGS PAY MORE FOR CORN THAN DEALERS, AND THEY ALWAYS BUY.

Oleo Congressmen on

On the afternoon of March 4 the edi-tor of Kansas Farmer telegraphed United States Senator Charles Curtis, as

"Are you supporting the Haugen bill, House Number 19338? Answer." On March 7, Kansas Farmer editor

received this reply from Senator Curtis:
"Haugen bill has not yet been considered by the House and has not reached the Senate. Have had no eppertunity to read or consider it. I supported the Grout bill, which pretected the producers of butter. The measure that will best protect consumers and dealers in dairy

products and substitutes therefore against fraud will have my support."

When the Grout bill was being made into law some 11 or 12 years ago Senator Curtis was representative of the First district. district. He not enly supported the Grout bill but worked hard for it. The Grout bill became a law and, under that law, the butter consumer and butter producer is now being protected against the fraudulent sale of eleomargarine, al-though the law is not sufficient to pre-vent entirely the fraudulent sale of elec. This is the law oleo manufacturers are now striving to everthrow by the passage of the Lever bill. The Haugen bill is the bill of the farmer and dairyman, and of the consumer as well, be it will enable him to buy butter as butter and not oleo as butter.

It is plain from the above where Sena-tor Curtis stands. Write him a letter backing him up in his position. Such letters will help him. The more urgest the demand of Kansas people that he sup-port the Haugen bill, the stronger he can defend it.

On March 4 the editor of Kansas FARMER wired United States Senator Joseph Bristow as follows:

"Are you supporting the Haugen bill, House Number 19338? Answer:"

On March 7, Senator Bristow wrote this letter:

"I have your telegram of the 6th instant. The bill you refer to (H. R. 19338) had never been brought to my attention until I received your wire, therefore I have given it no consideration."

The inference from the above letter is that Senator Bristew, upon receiving the above telegram, obtained a copy of the Haugen bill and while, before writing he may not have had epportunity to study it carefully, he nevertheless must have known by reading its title, that it was a bill to protect the consumer and the producer of butter against fraud, and he could have stated whether or not he was in favor of such protection.

It is apparent that KANSAS FARMER readers have some missionary work to do on Senator Bristow. Write him as this paper in this issue urges yen to do. You cannot afford to leaf on this jobwrite Senator Bristow at once. The editor is writing him and hapes by the date of another issue of Kansas Farmer to

tell its readers where the Senator stands.
On March 7 the editor of Kansas
FARMER wired D. R. Anthony, Jr., Representative of the First district, as fol-

"Are you supporting Haugen bill, House Number 19998? Answer."

To the above, Congressman Anthony replied by letter, dated March S, as fol-

"In reply to your inquiry of March 6th in regard to the Haugen Bill, will state that my information is that this bill has not yet been reported to the House. Not being familiar with the exact provisions of the bill, am unable to advise at this time whether it would re-ceive my support; it would depend upon the wording of the bill and upon having the opportunity to inquire into all the

On February 2 the Haugen bill was intreduced into the House, given Number 19338, was referred to the Committee on Agriculture, and ordered printed. The editor has a printed copy on his desk and from this printed copy the above in-formation is obtained.

Congressman Authory, if he read the first three or four lines of the title of the bill, could not help but know the purpose of the bill. Our telegram gave

Legislation him an opportunity to say in his letter whether he was opposed to the fraudu-lent sale of oleo and in favor of the pro-tection of the farmer's butter and in favor of protecting the consumer.

Is it to be inferred that Congressmen Anthony is loading on his job when he says he has not looked into this hill?

The Haugen bill was introduced into the House—his body.

First district farmers must get busy and write Congressman Anthony. Tell him that you want him to stand for the sale of eleo for what it is. He will do what you tell him to de, if you say it in enough letters, strong enough.

On March 8 the editor of KANSAS FARMER wired Congressman Taggart, of the Second district, as follows:

"Are you supporting Haugen bill, which prohibits coloring oleo same shade as butter, and which prohibits use of butter in manufacture of oleo, and which protects the farmer's butter; also, the consumer against fraud? Wire answer."

On March 9, Kirk Prather, secretary to Congressman Taggart, wired:

"Congressman Taggart is out of the city. Will call his attention to your wire on his return."

Congressman Taggart is a member of the Agricultural Committee of the House. His committee is considering both the Lever and Haugen bill at this very minute. That committee will recommend one or the other of the two bills. If the majority recommends the Lever bill the Haugen bill is sure to be reported by the minority. Write Congressman Taggart at once. In the committee his work will count doubly either for or against your interest.

On March 8 the editor of Kansas On March 8 the editor of Kansas Farmer wired Congressmen Phil Camp-Bell, Fred Jackson, I. D. Young, George Neeley and Victor Murdock, as follows:

"Will you support the Haugen bill and oppose the Lever bill, thereby protecting the farmer's butter; also, the consumer, against fraud? Wire answer."

Note that we asked each to wire his answer. No wires to this date have been received, but it is our grees that each

received, but it is our guess that each, not hearing from his agricultural constituents, has given very little attention to this legislation. You see the real situation in so far as

it has been possible for Kansas Farmer

to ascertain it during the past few days.
You must get busy with your letters
and petitions. Kansas Farmer will
furnish you with blank petitions free for the asking.

Send for some of these free petition blanks and circulate them among your neighbors, your town people, at your Grange and Farmer's Institute meetings.

Here is what George M. Whitaker, secretary of National Dairy Union, who is spending all his time in Washington

on this matter, wires Karsas Farmen: "Oleo hearing opened 28th. Judge Hainer, of Nebrasks, made strong argument for dairymen. Commissioner of Internal Revenue made points for oleo interest along color lines. Opposition to farmers is very strong. Urge every one to write, telegraph and petition Sena-tors and Congressmen. Hearing con-tinued until 15th. Situation acute."

Here is what Prof. George L. McKay, secretary of National Buttermakers' Association, who is representing dairymen and who is spending his whole time in their interest, wires KANSAS FARMER:

"If Lever bill becomes a law, the dairy business will largely pass into the hands of the packers. It permits cleo to be colored the same shade as butter. It permits them to use any amount of butter with oleomargarine. Haugen House Bill 21225 probibits both. Urge

you to support Hangen bill."
Prof. McKay's message and that of George M. Whitaker sets forth the situation and these men, representing their associations, are located for the present in Washington looking after this legis-

The legislative committee of the Patrons of Husbandry, National Grange, composed of Oliver Wilson, Peoria, Ill., T. C. Atkesen, Morgantown, W. V., N. P. Hull, Dimondale, Mich., also has an effice in Washington and will maintain that office until oleo legislation is disposed of. This committee recently spent \$200 a day for several days telegraphing Grange afficers to got heav with letters Grange efficers to get busy with letters

North-Haugen House bill 1933 has been changed to Haugen House bill 21225.



Harvesting and having machines and tools, as sold today, are the result of over fifty years of careful work by trained experts. Through every harvest season these men have followed our machines in the field in every grain-growing country, correcting all difficulties as they appeared or developed. The binders which are the result of such thorough work are now offered to you with the fullest assurance that when you use these machines

fullest assurance that when you use these machines your harvesting will be well done. Whatever the conditions under which your crop must be harvested, whether the grain be short or tall, standing, down or tangled, there is an I H C machine which will reap and bind it all; easily, surely, and with

no annoying and expensive delays.

I H C harvesting machines as sold today, are a finished product as much as any machine can ever be finished. All the difficulties that have developed up to date are overcome. Our experience is your safeguard. You have no experi-ments to make. You take no risk when you buy a machine bearing one of these famous names: they belong—quickly in time of emergency. I H C harvesting machine owners know that if by accident any part of their machine should happen to break, an exact duplicate of that very part can be obtained quickly from the I H C local dealer. This point is of the utmost importance when the grain is ripening or the harvest begun. It does away with all delays, all risks, all possibility of losing part of the harvest profit.

many years of constant improvement place I H C harvesting machines in a class by themselves. Whether you choose a Champion, McCormick, Osborne, Milwaukee, Deering, or Plano binder, you are assured of getting a ma-chine built right and tested under every condition that you will ever have to meet at harvest time.

The I H C local dealer handling these machines

is the man for you to see. From him you can get information that will help you to make up your mind as to which binder will best insure the full profit of your season's work. Decide only after the most careful consideration and you will surely buy an I H C machine.

Champion Deering

H

E

McCormick Milwaukee

Osborne

US

Take plenty of time to consider, compare all the points of all the machines you know of, before you buy a binder. If you do this thoroughly, you will become convinced that an I H C binder will do the best work for you, be the most dependable, efficient, and durable of all the ma-

chines you investigate.

There is quality in the material and construction of IHC harvesting machines that only a half century of experience can assure. There is a sim-plicity in the design which makes the working of the machines easy to understand and makes it safe to trust them in the hands of unskilled help.

Last, and most important, I H C binders are backed by an organization that insures your getting interchangeable repair parts — parts that fit where

When you have decided upon your binder, you will need a supply of binder twine. To get through the season with the least waste and trouble, buy one of the seven perfectly dependable brands of twine—Champion, McCormick, Osborne, Deering, Milwaukee, Plane, or International—in Sisal, Standard, Manila, and Pure Manila grades.

Your most important work new is the selection of machines for this season's harvest. See the I H C local dealer handling these machines. He can help you decide. If it is not convenient for you to see him now, sit down and write for catalogues. A post card will bring you full information.

International Harvester Company of America

Chicago

The purpose of this Bureau is to furnish, free of change to all, the best into better farming. If you have any worthy questions concerning soils, evens, has festilized, etc., make your inquiries specific and send them to I H C Service Building, Chicago, U.S. A.



\$1200 worth for \$900

HE several important things that you demand in an automobile are power, performance, service, wear and appearance. You must have a car that has all of the practical things—one that will serve your purpose (both for pleasure and work) for as little money as possible.

Let's start with some of the higher priced cars made—say those selling from \$1250 to \$1500—and see if they give you any more practical or useful value than this \$900 car. We have not the space to go over the entire car, but take the five fundamentals — power, speed, capacity, durability and appearance.

Practically every \$1200 to \$1500 car in America has a 30 horsepower motor. Our \$900 car has a 30 horsepower motor. They all seat five passengers. Our \$900 car seats five large passengers. In fact, it is just as roomy and comfortable as you could possibly want it to be. Those higher priced cars seldom develop over forty or fifty miles an hour. Our \$900 car will go forty miles an hour with ease and will take your toughest hill with just as much ease.

Nor can the \$1200 to \$1500 give you a better made car. In fact, in some instances it cannot be as well made, for most of the other factories are so small that they are forced to do work by hand that we do by machinery, and everyone knows that machine work is better and more accurate than hand work.

This \$900 car has a pressed steel frame. Same as the \$1250 car. The front axle is a drop forged I section—drop forged in our own forge plant. Same as the \$1250 car. The transmission is selective—three speeds forward and one reverse. Same as the \$1250 car. The

transmission is fitted with F. & S. annular bearings, which are used on the most expensive cars made. You get a fine Splitdorf magneto. Same as the \$1250 car.

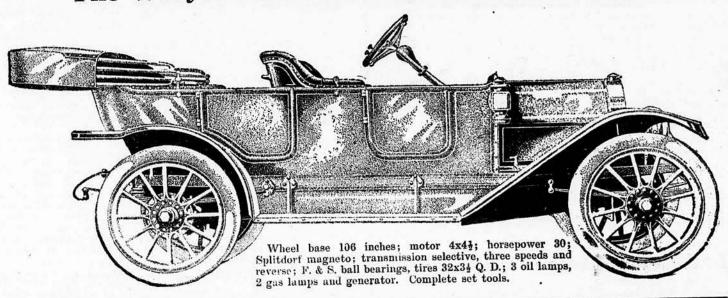
The motor itself is a beautiful job. It will never give you a particle of trouble. Just as true and sound as any of those big powerful engines you see on famous racing cars. It is of the most modern design, and as simple in operation as ABC. All the gear and crank casings are of pure aluminum, which are found only on very expensive cars. The gears are of Vanadium steel, found only on very expensive cars.

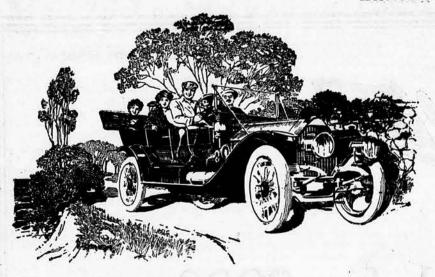
In appearance it is just as carefully and thoroughly finished. The body is in dark Overland blue. The upholstery is of good leather hand stuffed with fine hair. A car could not be made more comfortable. The body design is graceful, pleasing and right upto-date in stylish appearance. Why should you pay \$1250 for a 30 horsepower five-passenger touring car when you can get a car like this for \$900?

And remember, this car is built by the greatest organization of skilled men — 5000 of them—in the largest automobile plant in the world. Our enormous manufacturing and financial facilities enable us to do what is impossible for the smaller manufacturers.

Our handsome and well-written book gives you the detailed value of this car. It tells you all about our great big factories—shows you interior views of every department and contains a colored set of illustrations showing the complete Overland line for 1912. It is free. Write for your copy today. Please ask for book R33.

The Willys-Overland Company, Toledo, Ohio





ONE of the first things a farmer wants to know about an automobile is—who makes it?

Farmers have learned by buying wagons and such things that a great deal depends on the manufacturer. Ask any farmer what kind of wagon the Mitchell wagon is, and he will say—"There isn't any better wagon than the Mitchell."

Same way about Mitchell automobiles, made by the same people, in the same honest way. Mitchell automobiles are built to give long and steady service without much expense—the ideal car for the man who can't afford to make a mistake.

Send for a catalogue of Mitchell automobiles and get full particulars; the more you learn about these cars, the more reason you'll see for buying a Mitchell in preference to any other car.

For 77 years our vehicles have given satisfaction; they'll continue to do so for another 77 years.

Buying a Mitchell means knowing what you are getting.

The new Six-cylinder—48 Horse Power—is a great country or city car; carries five comfortably; and gets there; \$1750.

The Six-cylinder—60 Horse Power—is a big 7 passenger car for the whole family; \$2250.

The four cylinder, five passenger Mitchell, 30-H. P., equipped, \$1350

The four cylinder, four passenger Mitchell, 30-H. P., equipped, \$1150

The four cylinder, two passenger Mitchell Runabout, 30-H. P., equipped, . . \$950

Mitchell-Lewis Motor Company
Racine, Wisconsin
Kansas City Branch: Sixteenth St. & Grand Ave

Grain Dealer and Agriculture

Abrstract of Address By J. H. Miller, Director College Extension, K. S. A. C., Before Kansas Grain Dealers' Association, Kansas City, Mo.

Our census returns for 1910 and 1900 show in very many states and in hundreds of counties an alarming decrease in our rural population and show at the same time a marked increase in our town population, a distinct increase in size of farms and a decrease in practically every state of the yield per bushel of all grains. This would be an alarm-ing situation if people will only stop long enough to see it in this right light and in its tendencies. The other day I selected out 18 counties of Kansas representing different soil and climatic conditions without knowing exactly what the wheat yield had been nor how the record was being maintained. Upon a study of the state grain report, how-ever, I found that 17 of these 18 counties had shown very marked decrease in the average yield of wheat from 1900 to 1910. Only one of the 18 counties had the same average in 1910 that it had in 1900—14 bushels per acre. In 1902 and in 1907, however, that county had an average yield of 7 bushels of wheat per acre, les sthan the average cost of producing. harvesting and marketing. These are the records, notwithstanding the fact that the farmers of Kansas are reading more agricultural literature and studying methods of farming more than before; notwithstanding the fact that the Agricultural College is spending a good many thousand dollars every years to bring to the attention of the farmers the importance of better agriculture. This does not mean that what has been done in this direction should not be continued, but it does mean that we must spend a good deal more money and exert far greater effort, and we must have co-operation of more organizations. I come to this association, therefore, not with a plea, but with the plain suggestion that as a business investment money should be spent by this association in this great campaign.

Somehow we have continued to delude

ourselves with the idea that Kansas is the greatest wheat state in the world, and have bragged about it so much and our real estate men have used so many isolated facts and so much imagination that we, ourselves, have been made forgetful of the fact that the present methods of farming are wasteful and ruin-ous. The growing of wheat the last 20 years has not yielded to the average farmer in western Kansas even teamster's wages, let alone the interest on his investment. There is need today of more active co-operation of this splendid body of men, not only in the greater annual yield but in the building up of the soil that is the basis of permanent prosperity. There is need of co-operation in many ways, whether we know it or whether we believe in it or The idea of co-operation in business is developing in this country with wonderful rapidity. In the most pros-perous countries in Europe it has practically taken possession of the agricul-tural business. It is bound to come here, gentlemen, and whether it takes possession of your business or not will depend upon whether you accept it or fight it. It strikes me that the sane thing to do is to meet it half way. May I suggest a few of the lines of co-opera-

(1) Why should not every grain dealer become a careful student of this science of agriculture, a student of soils? Why should he not personally investigate the work of every good farmer in this territory and carry the ideas of one good farmer to others not so successful? Why should he not become an authority and gain the respect of those whose business it is to grow wheat in order that they may grow the right kind and deliver it in the right condition in order that he may market it the right place and for the right purpose and at the right price? Why should not every grain dealer become a milling expert by careful study of the milling business in order that he may know just what the wheat in his territory will do in the mill? The Agricultural College maintains a department of milling industry, with a most capable man in charge, and his services are offered free for all kinds of instruction when it is so desired, relative to the handling of wheat for the right kind of product.

(2) The permanent prosperity of Kansas is going to depend more upon our live stock interests than upon any-

thing else. You ask how that has anything to do with your business. Unless we grow more live stock we cannot maintain our soil fertility; unless we maintain the fertility of our soil you cannot get grain to ship, and you might as well begin to close up half the elevators.

(3) The study of the agricultural history of European and Asiatic countries will be a revelation to any thoughtful man. Every country that has persisted in being a cropping country, whether nation, state or province. has shown a decrease in prosperity as the decrease in fertility became more apparent. China, with its hundreds of millions of people subsisting for centuries mainly on one crop and that a soil robbing crop, is but to be compared to Denmark, that maintains the largest population per square mile in Europe and with probably the greatest degree of individual prosperity, of any country in the world.

(4) We want your help in discouraging the shipping out of corn and alfalfa hay. The farmers should be urged to feed that corn and hay to cattle and other stock and then the wheat that we grow should be shipped and milled in Kansas mills in order that the byproduct—bran and shorts, containing a large proportion of the elements of fertility taken from the soil may be shipped back to the farm at the least possible expense, fed out to the stock, and ultimately returned to the land whence in came.

(5) Then, we want your co-operation in our farmers' meetings, farmers' institutes—we want you to attend, and we want you to urge farmers to attend. we want you to make such a study of wheat growing and soil fertility as te become an authority and recognized by the farmers of your negihborhood as worthy of being recognized as authority. We want you to be the first to come forward with prizes for boys and men for a big yield of wheat and corn. The grain dealers of North Dakota and Minneapolis and the bank-ers and millers of North Dakota have undertaken the greatest piece of agricultural work ever undertaken by a commercial organization. They have subscribed \$100,000 for a five-year campaign among the farmers of North Dakota for better farming. The business men's organizations and the farmers' institutes of DeKalb County, Illinois, has recently pledged a sum of \$10,000 for three years and have employed an expert from the agricultural college to become "soils and crops advisor" for that county. Alabama has a farm advisor for every county, and the province of Ontario, Canada, one of the most progressive states in the world, now employs 16 farm advisors and will add four each year until there is one for each county.
Why should not this organization get

Why should not this organization get behind a movement in Kansas, a great campaign for changing our low standard of wheat production from 14 bushels to 30; our low standard of corn production from 22 to 40 bushels per acre?

And finally, gentlemen, I wish to remind you of what you as clear-headed business men know full well, that the prosperity of Kansas depends upon a square deal all around. The farmer must give his land, his soil, a square deal; he must give those who handle his produce a square deal; he must give the merchants a square deal, and you who buy his produce must give him a square deal—yea, more than a square deal, because your opportunities of knowing the wider markets of the world give you an unfair advantage if you don't give him a little of what you have learned. In other words, why not take the producer a little more into your confidence and become not only his agent, but his friend and his advisor.

Every reader of Kansas Farmer should write his congressman and each of our United States senators telling them to vote for the Haugen bill, which is the farmers' bill protecting butter against the sale of oleomargarine. The Haugen bill does not in any way restrict the sale of oleomargarine, but if it becomes a law will prevent its sale as butter. Take it from this editor that you should now write your congressman and senators telling them to support the Haugen bill.

Stop! Read!

I Ask You to Stop and Read—

BECAUSE I have something to say of vital importance to you. I have offers to make that will save you 40% to 60% on Gasoline Engines, Manure Spreaders and Oream Separators of the very highest quality. It will pay you big to stop and read every word of this page carefully. I pledge you my personal word that you have everything to gain—nothing to issue—by reading this great money-saving announcement from start to finish.

You Know William Galloway The Farmer's Manufacturer

Yes, I believe that you and farmers all over the land know me, even though you may never—as yet—have done business with me. My "ads" have appeared in this and practically every other good farm paper for many years. You know that I am an actual samufacturer, operating the greatest chain of factories in the world selling direct from factory-to-farm at one small prefit. You also probably know that

My Plan Hits the Middleman -Wipes Out Competition

Thousands of farmers have come to know this from actual experience—there are over 100,000 satisfied Calloway customers now! It's simple enough: Remember, you must buy one of two ways—direct or indirect. You must pay either three profits or lone small profit on your Engine, Spreader or Separator. Your dealer buys indirect. And pays two profits before he uncrates the goods. If you buy from a dealer you pay three profits and three sets of expenses. My price to you is actually less than the dealer can buy for spot cash in car load lots. By dealing with tens of thousands of Farmers, I am able to sell Engines, Spreaders and Separators direct at a very small marsin of profit. Because of my great buying power (authorized capital stock of \$5,500,000), improved automatic machinery and splendid factory organization, I can easily undersell all my competitors and make good my claim to save you \$00 on an Engine, \$50 on a Manure Spreader and \$45 on a Cream Separator.

WONDERFUL!

"Streak of Gold"-FREE

Figures of increased crop yields prove that Manure, properly spread, is just like a Streak of Gold in the soil. I have written a Book around this idea, in which I give facts, information, advice and experience of priceless value to every Farmer with manure to haul. I have a Free Copy for you that would cost you not less than \$1.00 if bought at a book store. Write for it. Read it. Apply its teachings—and if you are not fully convinced that "A Streak of Gold" enables you to make much greater gently for the profits for 1912, return it to me and I will send you \$1.00 cash in exchange.

A Streak of Gold

LET ME HEAR FROM YOU

Send for My Big Spreader Book, My Free Oats and Spreader Offer to 10 Men in every Town-ship. I will convince you that I can and will save you up to \$50 on the best Spreader made.

William Galloway, President

Think! Act!

Want You to Think and Act—

BECAUSE I know that if you carefully consider what I say and then send for my Big Free Descriptive Books and Special Offers, you and I will "hook mp" for a life-time of mutually profitable dealing. Galloway Prices are bed-rock. I allow no one to give more real value than I give you. Galloway Quality is top-notch—so better goods can be made—because I have corything that goes to produce Quality—Best Materials, Highest Skilled Workmen, Finest Automatic Machinery. And you can believe me, Friends, when I tell you, with all the emphasis at my command, that

Galloway Selling Methods Are the Fairest on Earth

I challenge all competition on Quality and Price. I defy any Manufacturer.

Catalog House, Dealer or Agent to meet the extreme fairness and liberality of
my way of selling goods. Under my plan every Engine, Spreader and
Separator must sell itself—or no sale! I have no Dealers, Personal
Salesmen, Agents or Solicitors of any kind. I send you—FREE—my
Big, Splendidly Illustrated Catalogs! with complete descriptions. I
quote you my low, wholesale factory prices—then I give you a

60 Day Approval Test—Your Own Time to Pay

Remember, Galloway Products are never sold until you say so! Try them first on your Farm. Test them out fully for 30 or 60 days. Operate them alongside any others and let the test be your proof!! Then—when you KNOW you know—simply say to me 'Yes' or 'No.' It 'Yes', keep the Engine, Spreader or Separator and make your own terms on any one of my five plans of payment. It 'No', return goods to me and I stand freight charges beth ways. You see it is plainly impossible for you to take the slightest chance of loss in dealing with me. I protect you fully before you buy with my Free Test Plan, and after you buy I give you a \$25,000 Guarantee Bond backed by cash deposited in the Blackhawk National Bank of Waterloo. Could you ask for fairer, more liberal terms?

MY WORLD BEATER



GALLOWAY'S Bath-in-Oil SEPARATOR

Lowest Prices Ever Made on Equal Quality

As my Separators must sell themselves, I figure that the sooner I place ten or more of them in every township, the sooner I will be able to do the Separator business of this country. Therefore, to the first 10 or more Farmers who answer this "Ad" I will send a Special Price Wrecking Cream Separator Offer that is as good as a gift to you of \$21.25 to \$45.

Here's How I Save You \$21.25 to \$45

Sooner or

You'll Buy a Galloway Spreader!

Yes, Sir-I can and will save you money on the best Manure Spreader made—my new No. 5 shown below—with Famous New Mandt Gear. This machine has Il distinct and separate patented improvements, any one of which would give the "Galloway" a big advantage over any other spreader. Yet, these exclusive patented features cost you not a penny extra—they are FREE with the "Galloway"—you pay only according to capacity—lowest factory cost plus the usual one small Galloway profit.

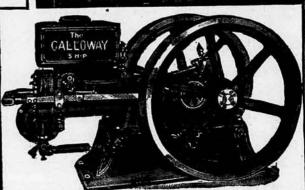
Test My Spreader Against Others

I know what my Spreader will do. 1 am a farmer myself, operate six Galloway Spreaders on three of my own farms right now, and know by actual experience what it means to put a spreader to every possible test.

And I want to say that when we were perfecting the Galloway Spreader we put her over the high jumps, right! We loaded the 'Galloway' with two tons of sand and gravel, tosted it with two toughest, coarsest calf-yard manure and piled it up over a foot above the sides, then started the team up on a trot and threw in gear while in motion. We tested the conveyor. We tested to ratchet wheel. We tested eyerything. We piled it full of comes to the chains jump off or break any castings. We tested to in every way conceivable and from my past manure spreader experience I know that the average spreader made and sold today in America would have been smashed to pieces under the tests we gave the 'Galloway' Spreader. That is why I offer you a

60 Days' Free Trial On Your Farm

Send for my Free Spreader Book, illustrating and describing everything. Get my money-saving prices then pick out the size machine you need. Let me ship it on approval. Try it for 60 days. Test it any way, you like. If it is absolutely satisfactory—if you say you want to "buy"—let me know and tell me how you want to pay for it. Make your own terms. One of my five plans will suit you. If not satisfactory you are nothing out.



EVERYBODY"

Can Afford A Gasoline Engine With Galloway's New Lowest Prices Ever Made on Equal Quality.

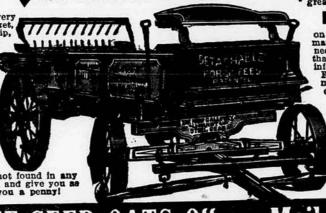
You never before heard of such startling engine values—
I've never offered anything like them before, and you know full well that no one else has ever come anywhere near my regular prices. But this time I have a very special reason—I want 10 men or more in every township in this country to own and operate a Galloway Engine—I've decided to double my factory capacity by increasing the sales twice and sell two where I formerly sold one—this calls for unusual values—hence, the greatest offer I have ever made is yours for the asking.

BEST IN THE WORLD

If Galloway Bath-in-Oil Separators were not equal at every possible point to the highest-priced machines on the market, would I dare to guanantee them as I do? Would I dare to ship, freight prepaid, on 30 to 90 days Approval Test? Could I afford to let you run my Separator alongside all others, at my risk, and pay freight both ways, if my Bath-in-Oil Separator failed to "make good"? Common sense says "NO!"

NOW LOOK HERE! I know that I am right on my bath look here! I know that I am right on my tested out on my three big farms every standard make of Separator on the market. In actual trials, side by side with high priced machines, I have proved beyond all doubt that there is no better make than Galloway's Beth in Oil

MY BIG OFFER Any Farmer in the land can take advantage of my wide open Cream Separator Proposition. I don't eare where you live, I will send you my Bath-in-Oil for a competitive test. If it doesn't prove that it has special advantages not found in any other separator and if it doesn't skim as closely, as easily, and give you as perfect service as any at any price—the trial will not cost you a penny!



I Can Save You \$25 to \$300

on an engine according to the H. P. needed. It doesn't matter what sized engine you want, I've got the one to fit your needs and do more work and better work at less actual cost than any other engine in the world. Write at once for full information of the Greatest Offer Ever Made To American Farmers—don't delay but send me your name and address now, hefore you do another thing. Let me prove to you by cold facts why I can put \$25 to \$300 in your pocket.

Make Your Own Terms

Let me ship you an engine—whatever you needfrom 1% up to 15 H. P. Try it 30 days. If you think
is the best engine you ever saw or heard of at any
price, let me know how it will suit you to pay—I'll
arrange it to suit your convenience. Your credit is
good with Galloway. Don't delay! Just get my
Big 50-Page Engine Book and prices now—I will
do the rest. Either mail the Free Coupon or send
your name in letter or on postal card today.

Write For My Big FREE SEED

Just check off what you want on the Free Coupon and mail at once; or if you prefer, send me your name on postal card or in personal letter. I want you to have everything right before you in plain, easy reading and pictures, facts, figures and proof of my claims from your Fellow Farmers. When you mail the Free Coupon, or wite in for more information about the Spreaders, Engines and Separators I manufacture for you, I am going to tell you all about how to get—FREE—a supply of Imported, Big, New, Northern Grown S-E-E-D O-A-T-S, that I have been growing for you on my 1,920-acre Canadian Pure Seed Farm. I want you and every one of my Farmer Friends in this country to know about these truly remarkable O-A-T-S and how they double and triple your crop. My Brother J. W. and I, with Prof. M. L. Bowman, the Famous Seed Expert, are making a Vigorous Fighting Campaign for MORE AND BETTER OATS and we want you to join us. We have organized The Galloway Bros.-Bowman Co., and I have arranged to offer these Seed Oats FREE to all who write me. You know full well the old story of half-crops at threshing time from the ordinary, small "mbred", run out seed oats. Here is your opportunity to get Big. Clean, Hardy, Imported Seed Oats—full of life and vitality—that germinates nearly 100%—every Oat sprouting and doing business that yielded 75 to 141 bushels to the acre in this country last year. Send for our Wonderful Oats Book and offer of Free supply New Seed Oats—See Coupon!

WILLIAM GALLOWAY, President, Wm. Galloway Co., 1381 -KP Galloway Station, Waterloo, Iowa.

Mail This FREE Coupon Now!

wm. Galloway. President,
wm. Galloway Co., 381 - KP Galloway Station, Waterloo, Ia.
Please send me following FREE. I have checked what to send:
Galloway's World Beater 50-Page Engine Book in four colors,
and Special Offer to 10 Men or More In Every Township. Galloway's Latest Manure Spreader Book and Special Offer to 10 Men or More in Every Township and "Streak of Gold."

Galloway's Wonderful Bath-In-Oil Cream Separator Book and Special Officr to 10 Men or More In Every Township. Galloway's Big Free Canadian New Seed Oats Offer & Oats Book

NOTE-Put an "X" in any one or all of the above [] squares.

State

R. F. D.

If you send name and accrees for any of the above articles you also get FREE, our New, Beautiful, 5-Color, 140-Page General Line Catalog, Post Paid.

Send no money—simply write and tell me to send you one of my new Galloway High 38-inch Wheel, All Steel Harrow Carts with dust proof boxes, and I will at once ship it to you by freight. You pay freight charges. Then when the Cart arrives examine it, try it, compare it with any to be had at pay freight charges. Then when the Cart arrives examine it, try it, compare it with any to be had at pay price. If satisfied in every respect send me \$6.50 and keep the Cart. Otherwise return Cart to me any price. If satisfied in every respect send me \$6.50 and keep the Cart. Otherwise return Cart to me and I will stand freight charges both ways—that's fair! You need the cart and you want the best for the least money. I'm the original Harrow-Cart manufacturer and know how to make them right. Get my complete catalog of All Steel Flexible Harrow—the only flexible harrow made that can be adjusted with levers. Get my lowest wholesale prices.

William Galloway, Pres., THE WILLIAM GALLOWAY COMPANY, 381-KH Galloway Station, Waterloo, Iowa.

Thousands Running

Year-In-and-Year-Out

Long Test of Use Proves Satisfaction, Low Cost of Up-Keep and Fuel Economy

Since first introduced, the Fuller & Johnson Farm Pump Engine has been making good on every claim we make.

It has been through the test of severe winters—and hottest days of summers. Its low cost of up-keep and economy of fuel have amazed the engine world. In comparative work tests with other pumping engines it has always come out ahead. In all this time the little demand for repair parts has been remarkable. You get the minimum of repair expense when you buy this high quality engine.

The Fuller & Johnson **Farm Pump Engine**

It stands for service, convenience, quality and completeness



PLANT CATALPA SPECIOSA

FULLER & JOHNSON MFG. CO., 31 Knight St., Madison, Wis. (1846)

IT PAYS \$30 TO \$50 PER ACRE PER YEAR.

IT IS A SURE CROP. Grows forever with one planting, and requires but little cultivation to start.

But only the Genuine Catalpa Speciosa will do this. The common scrub kind, seen in so many places, is worthless. The two pictures here are drawn from real life. The common kind makes only an indifferent shade. The genuine makes fence posts, telephone poles, bridge piles and lumber in a few years—lumber equal to oak and mahogany.

An acre of Catalpa fence posts is worth \$156 to \$250. It takes only four years for fence posts—six years for telephone poles. Catalpa posts outlast all others in the ground. They don't split or let loose of nails or staples.

Catalpa will grow anywhere in the corn belt. No trouble to get it started, or to cultivate and keep growing. We tell you how to do it.

Send for Our Free Bulletin of Information.

This Bulletin tells how we grow our FOUR MILLION CATALPA TREES. (We are the lorgest growers of Catalpa Speciosa in America.) It also tells how other growers in Kansss are making from \$30 to \$50 net per year from each acre they have.

Some Kansas growers have 400 acres and have had large incomes for ten years. Costs you only a postage stamp to get all we have learned about Catalpa in the last 15 years.

Send for our Free Bulletin right now. Costs only a post card.

WINFIELD NURSERY CO., BOX 2, WINFIELD, KAN.



HE FARM



Seed and the preparation of soil are the two important items determining the yields of crops. In grain crops the preparation of the soil and the seed usually amounts to between \$2 and \$3 per acre. Oftentimes a little additional effort and care in seed selection or in the preparation of the soil, costing per-haps \$1 or \$2, will increase the yield a great deal more than that amount

The steel wagon wheel has been on the market for at least ten years, but has not come into such general use as it deserves—especially the low wheel. Every farm has need for a knockabout wagon, and the low-wheeled steel truck fills the bill admirably. Such truck is exposed to all sorts of weather and serves a variety of uses quite severe on the wood frame and wheels. Investigate the low-wheeled steel truck if you have not already so done.

The land speculator is not a good man for the community. When he deals in improved farms he leases for short terms only and drives the best possible bar-gain with the tenant. He gets all out of the land he can. He makes his investment as small as possible and is not interested in the building up or in the maintenance of soil fertility. It is legitimate to invest in land with the idea of later selling at an advanced price, but the investor owes something to the community and to the soil he owns. These two debts are very rarely paid by him.

We believe in spring plowing following winters of unusual snow or rainfall. The excessive saturation leaves much of The excessive saturation leaves much of the soil compact and soggy, particularly that soil short on humus. If in such fields the spring crop is disked or culti-vated, the compact ground beneath will not permit the roots to grow deep . into the soil below. Such soil and cul-tivation prevents the rains from soaking deep into the ground. This compacted condition of soil is sometimes relieved by late spring freezes but not often is by late spring freezes, but not often is this the case in this latitude. An examination of the soil will enable the farmer to decide whether deep spring plowing is necessary or whether favorable results may be expected from seeding by surface cultivation.

The tendency of many of us is to keep an eye open for new crops or plants the growing of which in this section are still in the experimental stage. We admire the man who is keeping his eye peeled for the new thing or new idea. He should, however, be able to discriminate between the fad and the practical. Experiment with what might seem the impractical in a small way only at the beginning. Wheat, corn, Kafir, sorghum, alfalfa, millet and oats are standard grain and feed crops for Kansas. Varieties of each are particularly adapted to the conditions of the state. Find those varieties and stick to them. The use of the silo will reduce the number of crops needed for feed to corn or Kafir and alfalfa, and this alone seems to us as one argument for the silo.

In Kansas we do not grow as many oats as we should. Kansas Farmer believes that a crop of oats can be grown with as great certainty as a corn crop. We think the oat crop is handled more carelessly than any other crop we sow or plant. Very rarely are we careful to select good seed. Then we do not treat the seed for smut and rust. The seed bed is too often poorly prepared. We favor thorough disking if the surface and subsoil is loose. If compact, plowing is necessary for greatest assurance of a crop. We do not believe in broadcasting and harrowing in the seed. The drill is the best method of seeding. The seed oats should be well cleaned, removing all weed seed and light grains. Oats should be seeded on clean ground.

The Bermuda grass articles recently printed by Kansas Farmer have prompted several inquiries, each of which is answered by the following: Bermuda grass is of southern origin and is extensively used in the latitude of Oklahoma and in sections where the rainfall

is somewhat limited. The Oklahoma station, which has recently issued a bulletin on this grass, does not recommend growing it where alfalfa and similar crops can be grown. The grass does best on a sandy loam and is admirably adapted as a grass to prevent soil ero-sion and for a pasture on rough land not well suited to agriculture. Except in the southernmost parts of the country the grass does not mature seed and is best propagated by planting the roots, which is done in the spring and which is not laborious. It is believed that Bermuda will do well in Kansas south of a line drawn from Kansas City to the southwest corner of the state.

When the frost is surely out of the ground for the season and the surface is dry enough, do not neglect disking the alfalfa field. The disking of alfalfa is now good practice—particularly fields three years old or older. The disking puts the ground in good condition to take up the spring and summer rains, the splitting of the crowns has the effect of giving the plant renewed life and vigor and results in thickening the stand. You have seen many alfalfa fields in which the ground was so com-pact that you wondered at the alfalfa plants doing as well as they did. The plant is extremely vigorous and accomplishes wonders under adverse condi-tions, but with favorable conditions of soil and cultivation it will well pay for the extra labor. Our theory, too, is to plow up the alfalfa field after it has passed its prime. Give another field the advantage of growing alfalfa a few years. Wheat, corn or other crops on fields formerly in alfalfa make a surposing showing prising showing.

The editor at a farmers' institute recently was talking with a farm hand. This man had been with his present employer four years at \$22.50 per month and seemed pleased with his wages and job. He must be giving his employer good satisfaction or he could not have stuck so long. The hired man said if farmers would employ help regularly—the year around—and keep a man as long as he gave satisfaction, he thought a long step would be taken to-ward the solution of the hired man problem. He said many men now in the cities—not making any more money than he, but employed 12 months in the year would be glad to go to the farm and would give good service. We are won-dering if there is not wisdom in this man's talk. Of course if the farmer is to employ labor the year around he must have a means of converting his hired man's time into money during the winter season. This suggests the necessity of more live stock to feed, more cows to milk and more manure to haul. Will some of our readers express themselves on this matter? Tell us how you employ your help. Your plan may help other Kansas Farmer folks. If a hired man chances to see this, will he please

A KANSAS FARMER subscriber who lives in town and rents his farm contemplates building a silo for his tenant and wants to know on what basis he could afford to lease or rent to the tenant a wood silo. We commend this subscriber for his action. He will help his tenant, improve his farm equipment, and bring about a condition favorable to the maintenance and upbuilding of his soil's fer-tility. The plan on which we figure out this silo rental proposition is in line with the idea of our inquirer. It is his purpose to charge the tenant about 5 per cent on the cost of silo and enough more per year to wipe out the silo invest-ment in ten years. The land owner does not apply this method of business to other farm buildings or to the farm itself. The land owner in these instances shuts his eyes to depreciation and pockets his loss when it comes. If the silo cost \$300 the tenant could reasonably be expected to pay 5 per cent on the investment, or \$15 per year. Figuring that the life of the silo is 10 years—as our correspondent suggests, but which is too few years for the life of a first class fir stave silo-a rental of \$30 per year



KOW-KURE, the great cow medicine, is the only doctor the herd needs for most of the allments peculiar to cows. A positive cure and preventive for BARRENNESS, ABORTION, RED WATER, SCOURS, BUNCHES, LOST APPETITE, MILK FEVER, GARGET and BLOATING.

KOW-KURE is not a "food." It is a specific remedy for diseases of cows, and the only one in the world for cows only. Used according to directions, it will make sick cows well and keep well cows in the best of condition. Regulates the digestive and generative organs and tones up the entire system.

No dairyman or farmer can afford to be without KOW-KURE. J. R. Steel of Goff, Pa. writes: This medicine has saved me hundreds of dollars worth of cows. It saved a \$75 dollar cow this

Write for free book, "More Money from Your Cows." It is full of information you ought to

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A Safe, Sane Hoist that LOCKS ITSEL

JUMBO Safety Heist and Wire Stretcher

Earns Cost—Costs Little. It lifts loads like ordinary block and tackle. But the minute you let up or pull rope the automatic locking device of the Jumbo gripe onto the pull rope and it's fast. There is the load the tighter that grip. It's the grip that cont's stip! It treats all ropes all it's fast. The heavier the load the tighter that grip. It's the grip that cont's stip! It treats all ropes allies, whether they're old, now, wet or frazzled. Adjusts itself to size of rope. Made of best steel, critically tested and inspected of best steel, critically tested and inspected for State of the steel o

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Wind Mill \$99.70 Complete with Anchor Posts Sold Direct At
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Kills Praisie Dogs and Gophem of all kinds. Endorsed by State Experimental Stations. 1400

Ask druggist or send direct. Booklet Free. F. D. Chemical Co., Ft. Dodge, Ia.

VETERINARY COURSE AT HOME \$1200 year and upwards can be made taking our Veter-burn of the standard of t

will accomplish the land owner's pur pose, and is the item the tenant will to pay. So it would seem that \$15 plus \$30, or a total of \$45 per year, is what the tenant should be charged. If the tenant has dairy cows and other cattle sufficient to consume 100 tons of silage during the winter feeding season, the tenant can well afford to pay \$45 per year for the use of a 100-ton silo.

Build Cement Bridges.

The people of the state must decide whether they will have good, substantial, permanent bridges, built under the super-vision of men who know their business, or light, shaky, dangerous bridges, put up by a foreign contractor. W. S. Gearhart, the state highway en-

gineer, has been urging the people to build cement bridges which will be safe, build cement bridges which will be safe, and a credit to the community, and the bridge companies have been doing their best to defeat his plans. Reason it out. Which is the better, a cement bridge which will last for a century and cost nothing for upkeep, or a tin bridge which will be a constant expense to the taypayers? taxpayers?

Washday Abolished in Allen County.

Often we go away from home to learn the news. This comes by way of a Cali-fornia paper. Kansas Farmer asks its Allen County readers who are interested in this laundry to tell of their plans

through this paper.

"Washday is to become a memory on the Kansas farms. In Allem County an experiment is being tried which is to provide a laundry for the farmer. The idea of a rural laundry which would go from farm to farm and gather up the clothes originated with Miss Frances Brown of the State Agricultural Col-Brown of the State Agricultural College at Manhattan. Miss Brown had noticed how the city housewives were escaping the drudgery of washday, and decided that a rural laundry would pay as well as any city laundry. The plan is not to have a money-making onterprise, but merely to pay expenses of op-

Trees and Fruits for Western Kansas.

V. W. Goodrich, a successful fruit grower of Goodland, Kan., in answer to a KANSAS FARMER inquiry mames the following trees and varieties of fruits as adapted to the western third-of Kansas:

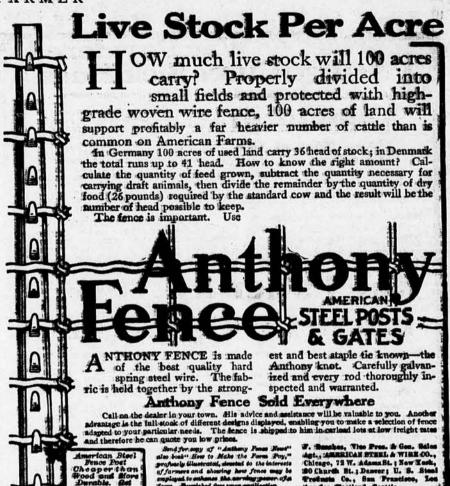
Forest trees for groves and wind-breaks: Honey locust, black or yellow locust, elm, hackberry and Russian olive, Osage orange hedge and Russian mul-berry. Cottonwood and willow on low wet soil.

Fruit trees: Apple—Red Astrakhan, Duchess, Wealthy, Winesap, Missouri Pippin, Ben Davis, Jonathan and Gano. Cherry—Early Richmond, Montmorency, Dychouse, Wray, English Murillo. Pears —Kieffer, Duchess, Flemish Beauty, both standard and dwarf. Peach-well, just plant some more cherry trees and let your neighbor plant peach trees. Plum—Forest Garden, De Soto, Wolf, Wyant, Miner, Weaver, Surprise.

Those new fine delicacies, grand highpriced varieties, don't buy or "bite" just now, but wait two or three years and let the other fellow experiment with the fancy high-priced varieties. His method of planting he will write later.

Potato Half Acre Preparation.

As a rule people neglect their potato ground, plow it too late and too shallow and either work it too much or not enough, or put too little or too much manure on it, or put it on too near planting time not letting it rot, or keep the same patch in potatoes year after year, or cultivate it too seldom or at the wrong time. Disc early, plow deep, work often, don't plant all at same time, rotate, keep the half acre under control for draining if too wat or in moist trol, for drainage if too wet, or in moist condition if the season is dry. In western Kansas big yields have been obtained by mulching with straw, hay or trash after the first or second cultivation. In western Kansas a half acre can be made to produce 200 bushels by irrigation from the stock well, using the overflow from the tank or by night-flooding. Why not flood the "potato half acre" and the whole garden, now-right away? What if we have had "lots of moisture"? As soon as surface is dry, disc the ground and then flood it for one or two days, and then as soon as possible disc it again and plow in a week-way down deep, and then work it occasionally until planting time. But let's raise "spuds" for the family this year. Won't the institute and Grange officers announce an "honor roll" for this "potato half acre"? J. H. MILLER, Director College Extension, Kansas Agricultural College.









Let Me Show You How

Merry War Powdered
Lye Cures Sick Hogs

All the talk in the world won't kill one single hog wormwon't cure one single sick hog-but if I, by personally presenting
these facts to you, can but persuade you, Mr. Hog Raiser, to give
MERRY WAR POWDERED LYE a fair, common sense feeding
trial, I will have done you the greatest favor any one man can
do another by putting you in touch with the best hog conditioner, cholera and worm cure the world has ever known.

This sounds like "big talk", but I know whereof I speak
because I have spent years in untold experiment and test after
test has resulted in unanimous, enthusiastic praise from thousands of Farmers and Hog Raisers all over the United States who
have fed MERRY WAR POWDERED LYE regularly every day
with their hog rations—and with wonderful results—proving beyond all shadow of doubt that MERRY WAR POWDERED LYE
WILL DO THE WORK—AND THAT NOTHING ELSE WILL
st is But a Trifle Important Warning

Important Warning

Some commercial lye makers try to persuade dealers and hog raisers thatany lye will do what Merry War will for hogs—but it will not, it can't—because no other lye maker knows the secret process that makes Merry War Powdered Lye safe to use in Hog Feed—they don't know the combination in Merry War Powdered Lye that produces the fat, healthy hogs.

Merry War is the only Lye which is absolutely safe to feed your hogs—the greatest Hog Remedy the world has ever known, and Hog Raisers who make the mistake that any lye will do the work claimed for Merry War Powdered Lye—fail to obtain results—pay the penalty in loss of hogs and are sorely disappointed.

Merry War Powdered Lye comes in 10c cans; full cases of 4 dozen cans for \$4.90—at Grocers', Druggists' and Feed Dealers'—there are no substitutes.

Follow These Directions

The Cost is But a Trifle

The Cost is But a Trifle

Merry War Powdered Lye is NOT
ONLY the BEST protection against hog
losses ever discovered—preventing Hog
Cholera; killing worms; rendering hogs
immune from infectious diseases; keeping them on their feed, with hearty appetites; toning them up; making them
fat and sleek; insuring prime condition
in the shortest possible time for topnotch prices—BUT it is the LEAST EXPENSIVE AS WELL.

For Hog Cholera

The following letter is but a sample
of hundreds that come every week, telling how happy hog raisers are with
Merry War Powdered Lye.

H. G. Acker, Chickasha, Okla. "I have
been feeding Merry War Powdered Lye
some two months, and it expelled worms
after the first few feeds."

I can show you all the proof you want
—as many letters like this as desired.

Feed Merry War Powdered Lye Daily

Follow These Directions

Feed Merry War Powdered Lye Daily

and begin today—the sooner you begin, the sooner I will prove to your complete satisfaction that Merry War Powdered Lye makes good every claim—and low will make the test.

Kettle Powdered Lye For Soap

disinfecting, etc., use my famous Kettle Powdered Lye—it makes dosp-Making, seconting, cleaning, disinfecting, etc., use my famous Kettle Powdered Lye—it makes the best soap you ever used—but DONT feed it to your hogs. Feed Only Merry War Powdered Lye—it makes the best soap you ever used—but DONT feed it to your hogs. Feed Only Merry War Powdered Lye To Your Hogs.

At All Leading Dealers Most dealers handle Merry War Powdered Lye. If yours will see that you are supplied and will also send you, free, a valuable booklet, on "How to Get the Biggest Profits From Hog Raising."

E. MYERS LYE COMPANY.

Follow These Directions

Mix one tablespoonful Merry War Powdered Lye with slop for ten hogs, or a half can with barrel of swill. Stir well and feed EVERYDAY, night and morning. If your hogs are on a dry feed are layed to each barrel drinking water.

War Powdered Lye with slop for ten hogs, or a half can with barrel of swill. Stir well and feed EVERYDAY, night and morning. If you hogs are on a dry feed are layed to each barrel drinking water.

War Powdered Lye with slop for ten hogs, or a half can with sharrel of swill. Stir well and feed EVERYDAY, night and morning. If you hogs are on a dry feed are layed to each barrel drinking water.

War Powdered Lye with slop for ten hogs, or a half can with sharrel of swill. Stir well and feed EVERYDAY, night and morning. If you want the best lye, exclusively dered Lye or taken with sharrel of swill. Stir well and feed EVERYDAY, night and morning. If you want the best lye, exclusively dered Lye on a dry feed and will also send you free a valuable book let. On "How to Get the Biggest Profits From Hog Raising."

E. MYERS LYE COMPANY.





Follow These Directions

The Astounding Record of GOOD FYEAR Rubber Carriage Tires

The Goodyear "Wing" Tire
Note this patented "Wing." How it presses



No more carriages were sold in 1910-11 than in the previous season. Yet the sales of Goodyear "Wing" Carriage Tires increased 24% in that same period. And for 1911-12 we estimate an increase of 81% over 1910-11.

Of the 200 carriage makers in the U. S., 148 now equip their carriages with Goodyear "Wing" Tires—almost 75%.

Goodyear "Wing" Tires have become the most popular carriage tires in existence.

All because thousands of carriage owners have used and tested them for 13 years and learned their superiority.

The Goodyear "Wing" Tire brings the same big saving to carriage owners that the Goodyear in the considering owners of automobiles. Stop and consider these facts before you buy rubber tires for your carriage.

The Goodyear "Wing" Tree that the Goodyear is life. Being of tough, springy rubber, it is exceptionally easy-riding.

Our "Eccentric" Cushion Tire is especially designed for lighter vehicles—run-abouts, etc. Note the wire hole is below the center. This increases wearing depth of the tire one-half.



Write a Postal Goodyear Carriage dealers sell than any other kind. Sond us your name on a postal and we will give you the name of the dealer in your town who sells "Goodyears." Our Carriage Tire Book can be had for the asking.

The Goodyear Tire & Rubber Co., Akron. Ohio "Wing" Tire Branches and agencies in 103 principal cities





LIVE STOCK



If Howard Pendleton will send us his postoffice address we can communicate with him regarding the matter of which he recently wrote.

The best way to inoculate alfalfa land is with a manure spreader. No crop responds better and the value of manure is no greater anywhere than on an alfalfa field.

Alex Philip, an old-time cattle grower at Hays, Kan., writes that this has been the worst winter, by far, that he has ever seen. He is feeding heavily on cot-tonseed cake. There has been but little loss thus far, though, in some instances, the cattle are thin.

We want good pictures of live stock. If you have a photograph of some animal or a group of them, even of it is only a kodak, just think how well they would look in KANSAS FARMER. But there should be a little story telling something of interest about these ani-mals. Try it once.

The next 60 days will tell the story of cattle. Stock has wintered well and the loss has not been above normal, but the feed is now running short and the cattle are thin. The changeable weather of March and April is al-ways the most severe on cattle, and extra precautions will have to be taken to avoid losses from now on.

There will undoubtedly be a cessation in the flood of hogs that have been going to market during the winter and then the prices will begin to rise. Every-thing points to this raise in the price of hogs and everything indicates that now is the time to buy breeding stock. It is down and corn is high, and the only way to combat this condition is to use only pure-bred stock.

The information given by Mr. Philip in regard to the cattle situation in Ellis county is confirmed by other farmers in other sections of the western half of the state. Information had gone out through the daily pres sthat suffering in western Kansas during the severe weather was dire and the loss of stock very heavy. There was no more of human suffering than there was in Topeka, if there was as much, and thus far the loss of stock has not been above

The silo has a value for the summer steer as well as for winter feeding. Progressive cattle feeders are realizing this, and are building silos. When it is realized that enough silage to keep a steer can be grown on one-fourth the ground required to pasture him, the economy of the silo is at once seen. economy of the silo is at once seen. This country needs and must have more cattle, and their profitable production on the farm is a necessity. The silo affords the only means of solving the problem of beef production that is available to every farmer alike.

Community Breeding.

Ten new community breeders' associations were formed in Wisconsin during 1911 through the efforts of the Animal Husbandry Department of the College of Agriculture of the University of Wisconsin. The Waukesha County Guernsey Breeders' Association, organized through the efforts of the college in 1906, now has 80 members who own 1,500 pure-bred cattle. The association claims that the demand and the price for pure-bred cattle has doubled as a result of the organization. The Waukesha Holstein Breeders' Association has 110 members, and since its organization the number of pure-bred Holstein sires in the community has increased 25 per cent.

Swine Conditions.

In speaking of the hog situation in Mitchell and adjacent counties, Mr. Leon Carter, breeder of Duroc Jerseys at Asherville, Kan., says that he believes the demand for breeding hogs will be good this spring, and this demand will be much better later in the season.

He writes: "I have received a num-

ber of inquiries for bred gilts recently, one party wanting 10 and another six, which shows there is a demand for them.

"Should there be a good corn crop over the corn and hog belt this year, I think prices for pure-bred swine will be good this fall and the demand will far ex-

ceed the supply.
"In this immediate neighborhood purebred brood sows are very scarce, as are also the common kind, and there are no stock hogs of any kind for sale around here. It seems to me these conditions can mean only one thing, high prices later on."

Here is a clear statement of one of the best possible arguments for buying breeding hogs right now, when the con-ditions point to a sure raise in value, when the prices for pure-bred brood sows are not yet high and when both the history of the past and every indication of the future point to a big crop year just ahead of us.

For Bacon Hogs.

Animal improvement not only means higher development, but a stronger constitution and a better animal in every particular. If this improvement consists in developing beef animals which require nurse calves to raise their young, it is a positive detriment. Nature shows the true type. Improvement means greater development and faster growth. It is a law of nature that the developing of one function more than another means a weakened constitution, and in the long run, of animals of less worth to man. We can only thank the All-wise creator for the benefit of the improved type. Otherwise, we would long since have been run out, especially of milking stock, over 90 per cent of which would have been diseased beyond repair.

Take the "corn scoopshovel" breed of Take the "corn scoopshovel" breed of hogs with heavy jowls and short legs. Would anybody expect them to compete in size, health or quality with swine that were really improved? They do not do it, regardless of all the talk about high type, medium and show type. big type, medium and show type. Anyone would think they did not know where they were at themselves. Breeding, according to my standard, would be more easily kept true to type, while your scoopshovel hog will always be sporting back to the original type. Some may think I am an advocate of scrubs or hard feeders. Not on your life! If an animal will not feed out at any age he has not been properly improved or he has not been properly improved or else he is not healthy. One healthy hog will get as much nutriment out of a bushel of grain as another, but no more. Animals should be fed according to their requirements for best development, regardless of any man-made rule or notion .- HOWARD PENDLETON.

Selecting Breeding Stock.

To one intending to go into hog raising the selection of breeding stock is one of the first questions to be considered. It doesn't make much difference what breed is chosen, for any of the pure breeds well cared for will be satisfactory in the large majority of cases. The choice of breed is more a matter of fancy than anything else. Select the breed that appeals to your fancy, writes T. T. Smith in the Review.

After having made your choice, don't allow anything to tempt you to cross with some other breed, expecting to retain the good points of both and get rid of defects, for disappointment is sure to follow. We have always been par-tial to Poland Chinas, but are free to say any other breed is just as good and can be raised just as successfully. But we want to emphasize the need of sticking to the breed you have chosen. We have one case in mind where a young man had been brought up on a farm where Poland Chinas had been raised to the exclusion of other breeds. But he had always had a liking for Berkshires and on going into business himself chose them as the hog best suited to his pur-

After about fifteen years he succeeded in having a herd that was a pleasure to look at. So much was this the case that there was considerable demand for his breeding stock. This young man had

Prevents Sheep Scab

At the first signs of Sheep Scab start in immediately and use Dr. Hess Dip and Disinfectant. This parasite and skin remedy is very effective, meeting the requirements of the U. S. Government as an official dip for scab and is always uniform in strength.

DR. HESS DIP **And Disinfectant**

destroys vermin of all kinds-prevents skin diseases—keeps horses, steers, hogs and sheep in a clean, thrifty condition. Splendid remedy for mangy dogs. Spray your stables, henneries, sinks, troughs, etc., with Dr. Hess Dip and Disinfectant—it purifies the air and wards off disease. Send for free Dip booklet.



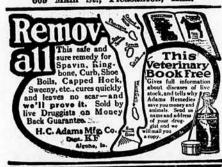




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The Tuttle combined power hay press saves you MONEY. New side self-feed and the self-tyer does it. Two men can run it. Three men is a full crew. Fully guaranteed for 12 months, SELF-TYER AND ALL. TUTTLE HAY PRESS CO., 609 Main St., Pleasanton, Kan.





a close friend who was an admirer and breeder of Duroc Jerseys. By some means he convinced him if he would use one of his males to cross on one of his Berkshires, he would retain all the good points of the Berkshire and the advantages of the Jerseys.

One cross was all that was needed to convince him of his mistake. But he didn't like to give up so easily. Another friend was very successful with Hampshires, and he concluded to try them, this time using a Hampshire male. The result was a conglomerate mass of stuff that would be a discredit to any wellconducted farm. Then his lesson was well learned and it is not likely he will ever undertake a job like this again.

Beef of the Future.

A writer in an exchange wonders where the beef of the future is to come from. It will come from the small farm, as KANSAS FARMER has often said. It must be produced cheaply, though, or a nust be produced cheaply, though, or a lot of town people who are eating beef now will be compelled to leave it off their tables. Beef can be produced at a profit to the farmer and at living prices to the consumer. Silage and alfalfa hay will produce it in this state, and the colver will be from conver which and the calves will be from cows which produce cream for sale. We are told that as far west as Ohio for a small farmer to feed out a carload of his own steers has been the custom for years.

Silage and Milk Taint.

An occasional Illinois farmer who has moved to Kansas writes that the Borden Condensing Company of Illinois prohibited the use of silage by their patrons. The Bordens did this not because they considered the use of good silage detri-mental, but because of its indiscriminate use by many uninformed, unscrupulous

As dairymen become more educated in the method of storing and feeding of silage, packing it well around the edges while filling, and feeding about two inches off the top, keeping the surface level, the Borden Company relinquished their restriction on the feeding of silage to cows from which their milk was obtained until there is now no restrictions imposed by them upon the feeding of silage, with the possible exception of a few localities where silage is not judiciously fed.

As a matter of fact any man who cannot feed silage to cows without produc-ing taints in their milk is not onto his job. It is the fault of the feeder, not the feed, when taints are produced in fresh milk by silage. Where milk ac-quires taints after milking the cause is due to bacteriological development or absorption from the air, and the fault lies with those who handle it.

Good silage, judiciously fed to healthy cows, never imparted an unpleasant flavor to milk.

Red Polled Cattle.

Red Polls are natives of Norfolk and Suffolk counties, England. Hornless or polled cattle have existed in the county of Suffolk, England, from time im-memorial. The eighth edition of the memorial. The eighth edition of the Encyclopedia Britanica, speaking of this old breed, says: "The county of Suffolk has for centuries been celebrated for its dairy produce, which is chiefly from a polled breed of cattle."

On the Norfolk strain of the breed,

Mr. Euren, in the account prepared for the Herd Book, says: "The files of the Norwich Mercury show that as early as the year 1778 there were whole dairies of polled cows in Norfolk."

The year 1846 may be taken as the date from which the Norfolk and Suffolk varieties merged into each other, so as to be spoken of as one and the same breed.

There seems little doubt that our socalled native muley cows are descend-ants, more or less mixed with other strains, of the Norfolk and Suffolk cows brought over by the early emigrants from that section.

The first regular importation was made in 1873; since this date many importations have been made, and today we find Red Polls in larger numbers in the United States than in their native

Red Polls are a dual-purpose breed. Their standard calls for such an animal, and the breeders who have given this breed a thorough trial find they

uphold the name given.

The adherents of the breed do not claim the cows will equal or surpass in dairy production the special dairy breeds, nor do they claim they will equal or surpass the special beef breeds in beef production; but they do claim they

will produce a substantial profit to the farmers.

The cows are good milkers, giving a good flow of milk which contains an average amount of butter fat. They are easy keepers, strong and vigorous, being able to care for themselves under conditions where less vigorous animals would fail.

When milking they will often work themselves down in flesh, but as soon as dry, flesh up very quickly, making a smooth animal, which many of our professors would pronounce a beef animal.

The steers are fine growers and feeders. While they do not, as a rule, lay on quite as thick a coat of fat as some of the special beef brands, they make a fine butcher's carcass. The meat is well marbled, and they dress a high per cent.

The majority of Red Polls in the United States are owned by farmers of limited means, that make their living, raise their families and pay for their farms from the earnings of the farm.

We wish no better testimonial than the indorsement of such sturdy men.

We find many times the conditions under which one is placed are such that some breeds would be more profitable than others.

If you wish to get a breed in which the cows will produce a profitable flow of milk and raise a calf that will make a first-class feeder, investigate the merits of Red Polls.—H. A. MARTIN, Secretary Red Polled Cattle Club.

Bacon Hogs.

Swine breeders of the corn belt laugh at the bacon hog, and they surely do have an ungainly appearance to one who is not accustomed to them. But, then, so does the dairy cow to the beef breeder, and the race horse to the draft horse man.

Bacon breeds are the products of methods of breeding and feeding, and are found almost exclusively in countries which produce but little corn. England, the Netherlands and Canada are the great bacon producing countries. As neither of these countries produces much more than is necessary for home consumption, and as bacon is eaten everywhere, it would seem as if the corn belt farmers are overlooking a fine oppor-

tunity to make money.

Our packing houses pay a premium on bacon hogs, but cannot get many, so they are compelled to select the thinner animals from among those which they do get. They state that they are wholly unable to supply the demand for break-fast bacon and that, if bacon hogs were raised in sufficient numbers to become a factor on the market they would com-mand a premium over the lard types. One Kansas breeder of Tamworths states that he has never shipped a load to Kansas City when he did not top the market, and a northern packing house has, for several years, bought pure-bred Yorkshire boars and distributed them among the farmers for the purpose of securing bacon hogs for their trade.

Both the Yorkshire and the Tamworth breeds are very prolific and belong to the large breeds. They are thought to be much less liable to attacks of cholera and other swine diseases and, although they mature later than the lard types, their products are strongly in demand throughout the world.

Canada breeds Yorkshires almost exclusively and England strongly so, but they are not common in the United States, though they are reckoned the best bacon breed. They grow rapidly in size, but do not lay on fat like the lard Their great size, with long and deep bodies, indicate their bacon producing ability and their ability to easily carry and produce large litters. They are of the type which the local butcher is always glad to get.

In view of the great and growing demand for bacon it would seem that very many farmers are overlooking a rare opportunity in not getting into the bacon hog class of breeders. There are a few herds of Tamworths and Yorkshires in Kansas, but these are not large, and their surplus breeding stock has not been widely disseminated. Those who breed the bacon types are very enthusiastic about them, and call them the perfect

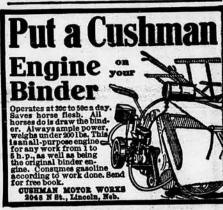
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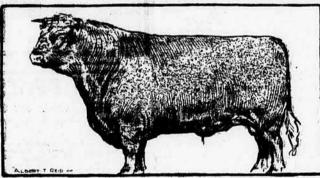
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DAIRY

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'Aim at better dairying. If you aim at the mark the chances are you'll shoot near it.

The essential point in handling large producing cows is intelligent management and feeding.

Diversified farming is sure to impress itself upon us more and more as time wears on. The dairy cow must enter into this kind of farming.

A cow in Kansas is profitable when producing 200 pounds of butter fat per year. But a 300-pound cow can be had almost as easily as the 200-pound cow, and the dairy farmer should not stop short of 300 pounds, and when that is attained keep right on climbing.

When cream is separated by the hand separator it should be kept cool and in a clean place to be delivered to the creamery in the best condition. The separator should be thoroughly washed, steamed or scalded immediately after using, so that it will be perfectly clean and sweet.

The amount of inferior butter on the market is often charged to the more extended use of hand separators. It should be charged to the abuse, rather than the use, and more especially to the manner in which the cream is handled before it reaches the creamery and the length of time it is held before delivery.

A 14-year-old farm boy writing an exchange says: "I like farming and don't see how anyone can think farming to be any more tiresome than go and work in a shop with a boss over you all the while. I like the farm because you can shoot and hunt all you want to. I like to do chores and husk corn best of all."

We do not buy a surplus of farm machinery. We buy that up to date and use it for all it's worth. Why have a dozen inferior cow machines? Why not a half dozen good ones, and get out of them as much as from the dozen and save on the investment and save wear and tear on our muscles and dispositions—and save the farm, too?

There is skill in dairying, as in anything else. But, the greatest skill is not required to make good money from the cow in connection with general farming. The exclusive dairyman is the man who has the real skill—he needs it and makes good with it. There is a chance for real skill in every department of the farm work.

A subscriber asks how to break a cow from sucking herself. There are several humane methods. One is that of using a halter with a rein fastened to a girt just back of the forelegs. This prevents the cow from reaching her udder. Another is to use one of the several calfweaning devices, preferably the one fastening in the nose and falling over the mouth. If the editor owned a self-sucking cow he would sell her.

It is safe for the dairy farmer to figure as an invariable rule that dairy performance follows dairy type—dairy conformation. Occasionally there is an exception to the rule, but these exceptions are so rare that they are not worth considering. Learn the dairy conformation—select cows having that conformation and breed for it. It is found in the dairy breeds, and in dairy-breed herds is the place to find it—either by buying the cows or by the purchase of a bull and breeding for it.

An exchange says there exists a deeply rooted prejudice among farmers against paying more than \$50 for a cow. This is due to the fact that they consider one cow about as good as another, that is if they give any thought whatever to the subject. They do not appreciate the fact that a good cow may return 50 or 100 per cent on the investment, while the poor cow may return a positive loss. As a man learns the comparative values of cowe his prejudice disappears and he

figures more upon what profits will come from his investment than upon the price of an individual animal.

One of the demonstration cows at the International Dairy Show, Milwaukee, at one milking produced 16.1 pounds of milk testing 14.1 per cent butter fat. This is the highest test of authentic record. The previous day she gave 13.2 pounds milk, testing 5.8 per cent, and the succeeding day 21.6 pounds milk, testing 5.8 per cent, showing quite a fluctuation in the flow of milk. Thinking perhaps the abnormal test was due to a feverish condition, a veterinarian made an examination, and found her temperature in a normal condition, and otherwise right as far as could be seen. Truly, the methods of the dairy cow are shrouded in darkness. We have learned a few things about her, but not all.

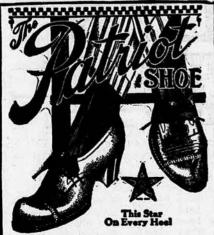
There is no end to silo inquiries. Kansas farmers are sure enough studying the silo question. J. C. A., Ottawa, Kan, wants to know if it is feasible to feed cows the year around on silage. Such plan is feasible and it is often done. In such practice it is necessary that the farmer have two silos—one empty to fill when the com is ready, and another filled and out of which to feed. The size of silo will, of course, depend upon the cows and other stock to be fed. The two silos need not necessarily be the same size—in fact it would be economy that they be not. Let the principal silo hold two times as much as the other. Out of this you would feed say eight months of the year, and the other four. The Illinois Experiment Station found that 1.34 acres of land raising corn and alfalfa would supply enough feed to keep a cow 365 days, and that such land in pasture would feed her but 78 days.

For 18 months dairy farmers have been resting easy on oleomargarine legislation. All this time the packers have been busy promoting their game. They have induced merchants, women's clubs, etc., to petition representatives in Congress to take down the bars and let oleomargarine be sold to the unwary consumer in every deceptive way possible. Every pound of eleo sold as and for butter displaces one pound of the farmer's product. You are willing that the consumer buy oleo if he wants it. You are not willing that he should buy oleo when he asks for butter. The Haugen bill puts oleo on its own reputation and in no way restrict its sale to people who want it, but it will protect the man who wants butter. Drop a line to your congressman and senators today to support the Haugen bill—it is your bill.

It is scarcely worth while to attempt improved dairying by breeding or selection until the shelter and feed questions have been settled. The dairy cow must be properly sheltered and feed—unsheltered and unfed the best dairy cow is as poor as the poorest scrub. The barn need not be expensive—let it be dry, ventilated, sun-lighted and convenient. The dairy barns of the millionaire farmer are orten not so well adapted to successful dairying as hundreds of barns we have seen on Kansas farms. No hard and fast rule can be laid down for barn construction. Use your judgment, guided by reading and observation, keeping in mind the requirements herein named, and you will not go wrong in barn construction. Alfalfa and the silo furnish the easy means of solving the feed question.

Pontiac Clothilde Bekel 2d.

It was only a few years ago that the famous Holstein cow, Colantha 4th's Johanna, made her phenomenal record of 998 pounds of fat in a year. This was by far the largest record ever made up to that time. She has held the honor of being the champion dairy cow of the world until Pontiac Clothilde DeKel 2d appeared on the scene and last year produced 1,017.3 pounds of butter fat, 25.819 pounds of milk, producing 1,271.6 pounds of butter. Her average test was



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a trifle over 4.01 per cent fat. The cow has been kept in a roomy box stall dur-in the year, but in the warm weather she ran with a number of other animals in a small pasture near the barn. Besides her grain ration, from November 20 to some time in June she had roots, beets, or mangels, green alfalfa, silage and mixed hay.

Kansas and Illinois Dairy Herds.

We may be led to the belief that Kan-sas dairymen and farmers are about the poorest in the world when it is pointed out how we may improve in practically everything we do. But Kansas farmers can rest assured that farmers of other states are lagging in some particular or other. Kansas does not possess all the bad practice, nor some other state all the good. Here is what an Illinois dairy-man recently wrote of his state, and in this particular Kansas dairy herds are no worse off than those of Illinois:

"Illinois contains dairy herds of every conceivable degree of efficiency, from those which produce over 400 pounds of fat per year per cow down to those which do not produce enough to pay for their keep, however low the cost of keep may be. Lack of uniformity is also characteristic of the herds of Illinois; in even the very best the variation is as great as in the poorest. This emphasizes the importance of selection from the higher part of each herd."

Breeding Cows and Horses.

The editor has several times thought along the lines of this article by the Pacific Dairy Review, and which, it appears to us, is applicable to Kansas in the same degree as California:

"It is hard to understand why in many communities dairymen will join a stallion association and pay \$100 or more for stock in the organization when they have but a few mares to breed to him, while at the same time they will refuse to pay a hundred dollars for a regis-tered bull that can be used on fifty or a hundred cows. We have in mind a certain dairy section in California in which the dairymen subscribed \$3,000 to pay for an imported coach stallion, but not one out of ten of them ever thought of buying a good bull to head their herd.

"Of course, if you are going to breed horses, breed good ones, but why not apply the same rule in case of cows? Suppose the \$3,000 had been invested in thirty bulls, what a showing they would have made in that community in the way of better cows by this time; and how their combined effort would have overshadowed that of the stallion, who was sent out on daily trips with his keeper soliciting mares for service, while the cows were being bred to inferior bred and native bulls. It is a poor policy

that takes the money that cows earn and invest it for the improvement of some other line on the farm. They should have the first consideration when it comes to making improvements."

Plans for Dairy Buildings.
Blueprints have been furnished to farmers during the year for 236 barns, 113 silos, 124 milk houses, 45 ice houses, 8 dairy schools, 5 manure sheds and 105 miscellaneous structures. This work has been received with much appreciation by the farmers and the bureau has been obliged to refuse many requests for plans to suit specific requirements, also for plans for peculiar conditions in the west, owing to the pressure of work.

Assistance has been given during the year in the erection of 140 silos, 36 of which were of concrete reinforced with wire fencing, one was of metal lath and cement, two were of brick and the rest of wood, either stave or modified Wis-

consin type.

This work of encouraging the use of silos is very fruitful. The advantage of using silage is well recognized; still the average darryman is included to regard the silo as an experimental venture unthe silo as an experimental venture un-til he has seen one used successfully. Therefore, whenever one silo is built in a community where there are none, others are usually built later.—From Report of the Bureau of Animal Indus-

Wire New Home for Electricity.

With the gasoline engine become a part of the equipment of every well-equipped farm, and with electric lighting appliances being made for farm use, it is not a dream to believe that in the is not a dream to believe that in the near future many farm homes will be lighted by electricity. It is well to think of wiring the new house for electric lights. This can best be done when building, and so to do is to take time and convenience by the forelock.

A competent man should be hired to de the work. This man can be obtained

do the work. This man can be obtained, probably, from the nearest point where electric lights are used. The wiring Galley 4—Kansas Farmer Rich should be done just before the laths are nailed to the joist and studding. The usual cost for this work is between 70 cents and \$1 an opening. An opening is required for every point where lights or switches are to be installed. To do the rough wiring for a house of eight rooms, twenty-seven openings will be needed, costing not to exceed \$27, the contractor

furnishing all material.

If the wiring is not to be used at once, the ends of the wire may be plugged flush with the plaster and their location marked. In this way the appearance is left as a possible with the plaster and their location marked. ance of the room is left as usual until the fixtures are put in.

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POULTRY

Here it is the middle of March, with snow on the ground, in place of young

The delay in the spring-like weather has a tendency to make poultry raisers despondent and sore at heart.

But we must possess our souls in patience, for many a fine day is in store for us, and the chirp of the newly-hatched chick will be heard all over the land before many days.

The quickest way to get a start in fancy poultry is to buy a pen of full grown fowls this spring, from which a large flock of chickens can be raised ready for next season's work.

The cheapest way to get a start in pure-bred poultry is to buy a few set-tings of eggs from a dealer in the breed of poultry that you admire, and have a flock of thoroughbreds ready for next

Never begrudge a few dollars for fresh blood each year, either in the shape of a new male bird or a setting of eggs, for it will always be worth more than it cost you, if you get the right stuff.

All things being equal, buy your stock from breeders that live nearest to you, for expressage is high and there is just as good stock in the west as in the east. High prices are not always a criterion of the quality of the birds.

In answer to a subscriber, would state that the standard weight of White Ply-mouth Rocks is a pound heavier than white Wyandottes. Cock, 9½ pounds; hen, 7½ pounds; cockerel, 8 pounds; pullet, 6½ pounds. White Plymouth Rocks have a single comb; White Wyandottes a rose comb.

A correspondent wishes to know which is the best incubator. We have frequently stated that we cannot answer such questions in the columns of KAN-SAS FARMER, for even if we did know which was the best, to state so publicly would be manifestly unfair to the mamufacturers of the other incubators that advertise with us. But we do not know which is the best incubator, for we have not tried or tested all the incubators that are advertised, and without test-ing all and giving all the same treat-ment, no one could decide which was the best. Suffice it to say that we do not believe there is a poor incubator advertised in these columns, and that all of them will do good work if properly run. The best thing to do is to send for the catalogues of the different incubators and compare them. Read up on incubators, and decide in your own mind which you prefer—a hot air macaine or a hot water machine. Then study the prices of the different makes. These vary a great deal. The size of your pocket-book ought to decide that. Then look at the testimonials of those who have already tried these machines, and be guided to a great extent by them. If you have neighbors who have used incubators, it would be well to call upon them and see what success they have had with the machines they use, and if they have been very successful with a certain kind of machine, that would be a good incubator for you to buy. The manufacturers, of course, are interested in their own machines, and think there are no others as good, but get a disinterested person's opinion, and you are likely to get the truth. This is the best advice we can give you about choosing an incubator.

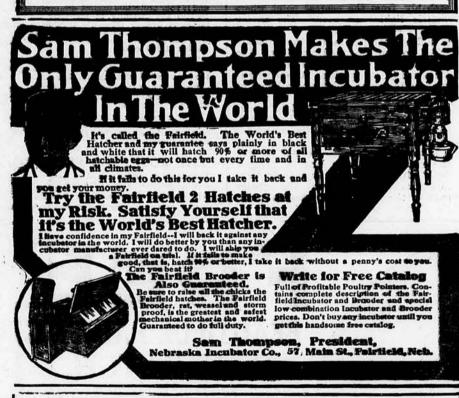
Lice, like the poor, are with us always, though not in as great numbers now as they will be in warmer weather. But now is the very best time to fight them. By killing hundreds now you will anticipate killing millions in the near future. Though the most efficacious way of killing lice on poultry is to dust each fowl individually, it is a very tedious way and where there are great numbers of fowls an almost impossibility. Another way is to use liquid lice killer. This can be poured in the bottom of a large box, the fowls confined

therein for an hour or two. This usually proves a good job, much better than painting the roosts with lice killer, though the latter method will help to destroy a great number of lice. If a good dusting place is provided for the hens they will cleanse themselves of most of the lice. The best dust bath that can be provided is fresh earth, either dry or a little moist. We notice that hens prefer a moist soil to dust in, and that it sticks to their feathers better than when too dry. Any kind of dust is fatal to lice. The dust box should be in front of a window where the sun can shine upon it. If no dry earth is available, coal ashes will prove a good substitute. Wood ashes are not so good, for if they get damp the lye that is created thereby would prove injurious to the hens. By taking up this lice questions and the statement of the hens. tion at once, and attending to the ex-termination of the enemy, it will prove of immense advantage in the rearing of young chicks later in the season. While old fowls can stand a lot of lice without succumbing entirely to their ravages, young chicks will not thrive at all when pestered with lice. Old fowls will lay much better after they are rid of lice, for the sustenance that goes to maintaining parasites will go to the making of eggs.

Don't Breed from Immature Stock.

The custom of breeding chicks from cockerels and pullets of immature age has been too prevalent of late, and a halt should be ordered. For quite a number of years the demand for good stock from standard breeds of poultry has been so enormous, in nearly all varieties, that they have been sold off so close that the remaining pullets have been placed in the breeding pens before they had fully matured. Then again, from the fact that the pullets will usually lay more eggs than hens two years old, many writers recommend that the old hens be sent to market and to use pullets in their stead. Thus we have two causes for finding so many pullets in the breeding pens. It is all right to have early hatched pullets to lay eggs in the winter, but some of the best hens ought to be saved for raising the chicks in the spring. The progeny from mature stock will be much larger, as well as hardier. In the large breeds neither males or females fully mature until they are a year and a half old, and by following the advice of sending all the hens to the market, they are sent there when they are just entering their best age for producing vigorous offspring.

Fowls will reproduce at an early age, before they have their growth in size or vigor in vital forces, and such being the case, they are unable to transmit to their offspring a degree of strength and vigor which they do not possess themselves. The consequence is that the eggs produced by such fowls must of necessity be deficient in the same important requisites. In the first place the germ—the life principle—is weak and imperfect, and the chick cannot develop to the proper stage and with the necessary strength to make its way through the shell, and must of necessity die; and if perchance it survives the and feeble and will not be able to live through the first stage of feathering. The continued practice of breeding from immature stock is fraught with great evil, and must result in the end, by the laws of heredity, to a progeny dwarfed in size as well as in constitutional strength and vigor. Some of these results can often be seen at our poultry shows, where some of the Leghorns and other non-weight classes are no larger than a good-sized pigeon. In fact we have seen some pouter pigeons that have outweighed the Leghorns. The weight clause in the standard for the Asiatic, American, English and other classes compel the breeders to keep them up to standard weight or risk losing prizes for being underweight. This also emphasizes the superiority of one phase of the scorecard system of judging over the com-parison method. Under the scorecard the lowls must weigh a certain standard or they are docked two points for every pound they are below standard weight. In comparison shows the birds are not





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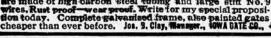
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We can help you. Send names and addresses of ten poultry friends and receive our 32-page book on WHITE DIARRHOEA, the greatest foe to chick life. This book makes poultry profits possible. Gives care and feeding of chicks; also gives cause and guaranteed cure for bowel trouble. Above book and sample of F. K. Tablets FREE, postpaid, for the names. Write today. The value will surprise you.

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What is the use to go to the trouble hatch chicks and then let them die? The other forms of the first them der from sands of chicks have been saved by feeding "THE OTTO WEISS CHICK FEED." Why don't you save yours? It is a scientifically prepared balanced ration, not an experiment, but on the market for over ten years. Insist on your lealer furnishing you with the best.

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weighed and the breeders do not care if their birds do deteriorate in size. If we have to adopt a course of breeding from pullets and cockerels, a strain would eventually be established identical with the conditions of these immature parents, even at maturity, dwarfed in size and in constitutional strength and in size and in constitutional strength and vigor, and they would continue to degenerate as long as such a course was continued. The law of heredity maintains in every direction, seeking to produce the like of its parentage, whether it be upward or downward.

The reason that the effect of immature breeding is not more universal than it is rests upon the fact that mature fowls are still being used by breeders, and their progeny is so thoroughly mixed up that we are unable to determine which have been bred from the one or the other, and consequently the degeneracy is uncousciously retained, but nevertheless gradually retrogressing. In standard-bred poultry we may rest assured that more deterioration is produced by the causes named than from any other source, and lend their influence by effeminacy and lack of vigor to help the arguments of the enemies of The reason that the effect of immahelp the arguments of the enemies of fancy poultry. If breeders will all strive to breed from mature stock there will be less opportunity for anyone to say that pure-bred stock is smaller or less hardy than scrub stock, as many now do. The custom of breeding cocks to pullets and cockerels to hens, while it will help the matter to a certain extent, is not so good as to have all inmates of the pen of mature size and mature age.

Poultry Advertising Pays.

Poultry breeders who are advertising in Kansas Farmer write to say that the present season promises to be a very good one for selling eggs for hatching, and baby chicks as well as breeding stock, though most of the breeding stock business has been done for this winter and spring. These advertisers also write that KANSAS FARMER is bringing them excellent results.

excellent results.

Mrs. C. H. Myers, of Fredonia, Kan., writes, March 5, "that it seems that about one out of every four of Kansas Farmer readers has written to us to inquire more about our Indian Runner ducks. It is getting to be too much of a job to answer all the letters."

Mrs. Elien Sherbonaw, also of Fredonia, Kan., writes, March 4: "I am only running my ad in Kansas Farmer, and that is bringing all the orders I can handle. I sold out all my surplus cockerels and pullets through that ad at a very low cost of selling. I am more than pleased with returns."

John Ditch, Galva, Kan., writes, March 4: "I have used Kansas Farmer for five years to advertise my poultry, and I have never found a better medium. It is sure to bring good business. My little ad this winter sold out all my stock in three weeks."

Every mail brings similar letters, all proving that Kansas Farmer is a most efficient help to sell poultry and eggs, as well as to produce them.

Write the poultry editor for free booklet, "Profitable Poultry Selling."

Good Success With Ducks.

Writing of her experience with pure-bred Indian Runner ducks, Mrs. Annie E. Kean, Route 1, Carlton, Kan., says: "Last spring I saw an ad in KANSAS FARMER of the Golden Rule Poultry Farm, Clarinda, Iowa, and sent and got me a pen of fine ducks—a drake and four ducks, the pure fawn and white colfour ducks, the pure fawn and white corored. I got them for my own use, not thinking of more than selling on the market the eggs and surplus ducks I would not need for my own use. Those ducks just kept on laying and laying, and I kept on setting the eggs until I had 70 nice ducks, besides a number of drakes. I sold some of the drakes on drakes. I sold some of the drakes on the market and expected to sell all of them in that way. But somehow my ducks got advertised and I began to get orders from different places, even from as far away as New Mexico. So I sold all I had to spare for good prices, and could have sold more if I had had them.

"This season I am putting a small ad in Kansas Farmer to sell what eggs I don't need for my own use. I find the pure white eggs these ducks lay are preferred by many people. I am convinced pure-bred poultry pays well, especially Indian Runner ducks."

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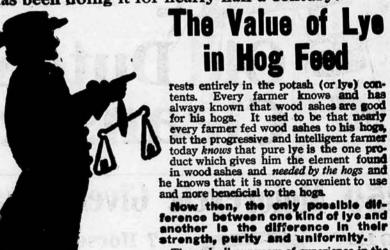
A reservation of fertile valley land is now open in Mexico. Homesteads free. Only requirement is to have five acres planted within five years. An authorized Improvement Co. will plant the bananas and market them on shares. Your share should bring \$200 per acre annually. Apply immediately. Address the Rio Tonto Land Co., Block 421, Greensburg, Pa. They are distributers for the U. S. The land lies between the river and railroad. Climate fine eternal spring, never hot—never cold. Abundant rainfall. Three crops a year. You need not go to Mexico.

When writing advertisers, please mention KANSAS FARMER.

Feed LEWIS' Lye to Your Hogs

Feed Lewis' Lye not just lye but Lewis' Lye, because Lewis' Lye is best for the hogs. Now when we say it is best we are not simply making a claim. We are stating a fact which thousands of hog-raisers know and say is true. You ask why it is best? Well this is why. Because it is the purest and strongest and most uniform lye made in the world. If anyone questioned this statement we would prove it. This greater strength, greater purity and greater uniformity makes it the safest, surest preventive of hog cholera and worms.

Use a little Lewis' Lye in your hog feed regularly, and keep cholera and other diseases away from your drove. Keep your hogs fat and healthy. Lewis' Lye will do it. It does do it. Has been doing it for nearly half a century.



Through all our years of experience in the manufacture of lye and with all the resources we have had to work with, it is only natural that we should have developed the best manufacturing processes; it is only natural that we should have learned how to make the strongest, purest and most uniform be in the world and we have learned how and we are making the strongest and purest and most uniform lye in the world and that is the only reason we can come to you and say that Lewis' Lye is the best lye to use on the farm, whether for feeding hogs, making soap or for any other purpose.

Lewis' Lye is NOT specially prepared for hogs, nor specially prepared for soap making nor for any other one of its several uses, and let us here clearly, definitely and finally wipe out any impression which may have been created in your mind by the statements of some packers of advertised lye to the effect that they prepare by "secret processes" a "special" lye for hogs.

There is no special lye for hogs.

If there were any reason for making a special lye for hogs or if there were any way

If there were any reason for making a special lye for hogs or if there were any way of making a special lye for hogs, the Pennsylvania Salt Manufacturing Company would have marketed such a product long years ago. We could have prepared a special label for hogs but the contents of the can would have been just simply Lewi's Lye—and that's all you want for your hogs.

You want the best lye your money can buy. That means ou want the strongest and purest and most uniform lye, the lye that's always the same, whose high quality never varies, the lye whose makers back it themselves, put their name on the package and stand back of it as a guarantee of its superiority, and there is just one lye that answers to that description. It's Lewis' Lye, standard for half a century.

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The Quaker is on

Every Can

Read the instructions for feeding Lewis' Lye to hogs-one quarter can to every barrel of feed. Now read the instructions on the "Specially prepared secret process" lye for hogs—"One-half can to a barrel of feed."

Figure it out and decide which lye you want to use.

Lewis' Lye is backed by the responsibility of the manufacturer, in whom you can put every ounce of faith. No premiums, no schemes. Just the best lye in the world. Order it from your grocer. The Quaker is on every can.

PENNSYLVANIA SALT MANUFACTURING COMPANY PHILADELPHIA, PENN'A **Manufacturing Chemists**

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urns Kept Sweet and Clean There's nothing that will keep the churn so thoroughly clean, sweet, and sanitary as Old Dutch Cleanser. The fine particles cut away the grease and "butter-rims" instantly. Saves half the time and work. Many other uses and full directions on large Sifter-Can 10c. ld Dutch Cleanser

\$250 Motorcycle Given Away



isior Motorcycle, 1912 model. 7 horse power, with wonderful speed. Rides easily, climbs the steepe asily operated. Just the machine you want. WE ARE GOING TO GIVE IT AWAY or on ever heard of. Four bloycles, hundreds of steds, base ball outfits, rifles, and many other fit Just think what it will mean for you to have this motorcycle and be able to travel as fast as yo ay for our free offer. PEOPLE'S CO.. 561 Popular Bidgs. Des Moines, lows

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My Seed Corn is grown under special contract by one of the best known and most successful growers in the West. Write quick for circular and prices. Quantity limited this year. Get your supply before the BEST is all taken! MY TESTED seed corn brought first prize State Corn Show at Manhattan, Kan., last two years; first at State Fair, Topeka, Kan., two years; Capper Ear Prize at Topeka, Kan. I sell the very best and most carefully tested seed corn at lowest prices. My prize-mining stock consists of "Boone County White." "Silver Mine," "Reid's Yellow Dent," "Perfect Golden Beauty," and "Zimmerman's 80-Day"—the earliest large corn in the world! Write today for illustrated catalogue. Address

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Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from pure inherited tock; every stalk bearing one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid inspection. Also all other leading standard varieties at FARMER PRICES. OUR BIG BLLUSTRATED FARM AND GARDEN SEED CATALOG mailed FREE. A postal card will bring it to you. Write for it today. Address, RATEKIN'S SEED HOUSE, Shenandoah, lows. Box 69

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You can't afford to risk your crop of corn by planting inferior seed corn nor buying it
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100 bushel an acre. We grow every bushel on the world's greatest seed corn farm—150
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Pure, Genuine and Unadulterated. Get our pure seed catalog today. It is something New, Different and Original. Imported Canadian Seed Oats and Wheat, also American grown barley, wheat, clover, alfalfa, timothy, grass seed, cow peas, rape, sugar cane, mangels and corn. Only one variety—the best—no second or third seeds. Get our New. Different Seed Catalog Free Post Paid. Galloway Brog.-Bowman Co., Box 382, Waterloo, Ia.

GRANGE The

DIRECTORY OF THE KANSAS STATE

OFFICERS.

"Let us close the door behind us and look forward; and with one common purpose strive for the good of all."—Oliver Wilson.

Shawnee Pomona Grange.

The Shawnee County Pomona Grange met in the beautiful home of the Y. W. C. A. of Topeka. Seven of the eleven subordinate Granges were represented. The time of the one session was devoted to discussing co-operative business for the county, and a plan was discussed whereby each subordinate Grange may have a representative on the board of directors under which all county business may be done. A resolution was passed to the effect that we must avail ourselves of the privilege of buying in car lots for our members such commodities as can be readily divided at the car and, if necessary, there may be se-cured a warehouse for the purpose of storing some of the standard commodi-ties. The details of this plan are to be left to the representatives of the subordinate Granges.

The following was unanimously adopted: "Resolved, that we farmers should elect as representatives men from the agricultural class, and not depend on lawyers, bankers or doctors to represent the farmers in our legislature." sent the farmers in our legislature.

The discussions were thorough, and as everyone had, as good Patrons have, an opinion and the ability to express it, there were many opinions offered. The Grange has maintained that the difference of opinion is no crime, and so the discussions were all in a friendly spirit. Ofttimes some of us are opinionated, and by coming in contact and mixing to-gether we get the corners rubbed off and realize that perhaps the other fellow's idea has some little merit in it, and thus we make progress.

Good Work Benefits All.

For the purpose of better instilling into the minds of our members the principles of our order, the lecturer should devote an evening now and then to the study of the Patrons' Declaration of Principles. There is nothing better, nothing in Grange literature that furnishes better material for thought than these Principles.

Take up the obligation and see if there is not something in it which has been forgotten by some of our members. The Ten Commandments and the Patrons' obligation have the same general principles and the identical object—the elevation of mankind. The charges delivered by the officers of a Grange are great lessons in themselves, and each officer should commit his or her part and become thoroughly familiar with the form of initiation.

Did you ever attend a school exhibi-tion and not feel sorry for that unfortunate pupil who forgot the lines? That is the way the initate feels for you when you stumble over the beautiful in our ritual. think how much more impressive the charge will be when you can repeat it word for word and look at your class rather than take all of your attention to the mere reading and focusing your book to a dim light with which many of our halls are supplies.

We rightfully boast of our order being an educational institution. Let everyone help to make it so. We have many young people in the Grange, and it would be a great benefit to them if someone were selected to teach parliamentary practice, something that will be a help all through life. Did you ever hear someone arise and say, "I move you, Mr. Chairman"? You and I know what a difficult task it is to move some of our chairman. It was not for the purpose of moving the chairman that the party arose, he merely wished to make a motion. Let us improve this branch of our service. Cushing's Manual is prescribed as authority by the National Grange.





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A package of our Famous Oats, together
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ples, as also our Mammoth Catalogue
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10c Offer! 50 pkt. mixed colors Petunias
100 pkt. extra fine mixed pansies
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written with my 28 years experience—for buying Vege table, Flower, Grass and Farm Seed, Upland grown Alialfa, Clover and Field Grass Seed, Seed Potatoes, Corn and Grain, Fruits and Flowering shrubs. Freight paid on \$io tree orders. All Seeds Nebraska Standard. None better.



Over 700 illustrations of vege-tables and flowers. Send yours R. H. SHUMWAY, Rockford, Illinois

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For Only Ten Cents We will send packet Tomato Fig Seed and a Sur-rise Packet of other new seed in a 100. rebate envel-pe, which when emptied, will be accepted as 10c ayment on any order for seeds in our 1912—3 color atalogue which is included FREE. Order today. SMITH BROS. SEED CO., Box 637, Auburn, N.Y.

ZILLER'S PURE-BRED SEED CORN
LEADS.

I have found out by years of work and experience the best varieties for this country and the best methods of producing and taking care of seed corn properly. Five leading varieties—Hiawatha Yellow Dent, Reid's Yellow Dent, Boone County White, Legal Tender and Farmer's Interest. Also full line of garden and field seeds, raised and gathered under my personal supervision. Write

John D. Ziller, Hiawatha, Kansas.

BARTELDES for 1913 is now ready,105 pages hundreds of illustrations. We handle only pure bred, highly germinating, Kansas grown seeds, tested by expert trained in U.S. Government Laboratory. Bartelides Seeds for field, farm or garden have been famous for 45 years. Write for our Cultural Guide and Free Book on Alfalfa, Our PINK LIST gives current prices of Field Seeds in quantities. Issued weekly. FREE BARTELDES SEED COMPANY, 307 Hauschussels Street, Lawrence, Kansas. 807 Manachusetta Street, Lawrence, Kanses. Oldest Seed House West of Mississippi River. Est. 1805.

PURE-BRED YELLOW SEED CORN. Early Monroe, Mammoth Drouth roof, Sunflower, Hildreth, Hiawatha, Big Yielders, grown by me successfully for past five years in Central Kansas. Write for prices and other information.
ARTHUR WHITZEL,

Sterling, Kan.

Tested and graded, Fancy Seed Corn Manhattan College test, 96, 98 and 100. Catalog free. J. F. Haynes, Farmer-Seed Corn Grower, Box 94, Grantville, Kan.

Good Work.

It was our privilege a short time ago to visit a Grange which had been organized only eight months, and it was with pleasure and admiration that we watched the officers execute their part in the beautiful ceremony of conferring the degrees. Each officer gave the charge as if it was a part of his being, and acted and looked the part which was represented. The two assistants never so and looked the part which was represented. The two assistants never so much as halted in their leading, and you Patrons know how well that is appreciated by the other officers. All parts that were given by their elected officers were very nearly perfect but the loc were very nearly perfect, but the lec-turer was very proficient. Many of you know the lengthy charges that are given by this officer, and all of you would have admired this lady's efforts. Never once did she falter or hesitate for the right

word.
What this Grange does can be done by all of our 140 subordinate Granges. You newly elected officers, get busy now. You who are holding over for another year, brush up and see if you can not improve a little on your last year's

We had a theory in our own Grange— and we believe it to be one of the best Granges in the state—that when we had elected to office an elderly sister or older brother that we should excuse them from committing their parts in the ritualistic work of the order, but observation proves that we should not make any exception, for if you excuse one the others think they are also excused, and the result is not progressive. Age does not bar any-one in our order from intellectual prog-

Fair and Reasonable.

A member of Congress recently com-menting on the Grange influence in legis-lation, made this significant assertion: "The Grange has been very successful in its legislative undertakings, because in my observation it has always been emi-nently fair and reasonable."

nently fair and reasonable."

This significant remark, from a man who has been on the ground for years and in a position for thorough observation, touches the keynote of success and reveals the exact truth. Trace the efforts of the Grange in legislation back through the years to the beginning, in national and state circles, and to a noteworthy degree the words "fair and reasonable" may be applied to its undertakings. During those years the Grange legislative work has been directed by many different men, of widely varying opinions, yet the same underlying purpose has been present.

Many victories have crowned Grange legislative efforts, yet no flush of tri-

Many victories have crowned Grange legislative efforts, yet no flush of triumph has been permitted to bias further undertakings or to impel endeavors that were not worthy the best judgment and continuing good sense. While from such defeats as have been encountered the Grange has emerged determined and hopeful, and has immediately marshalled its forces for a new try. The marshalled its forces for a new try. The legislative record of the Grange achievements is one of the phases of its work

most to be proud of.
Unselfish in its fundamental purposes, Unselfish in its fundamental purposes, the Grange has ever sought in legislative endeavors to promote the interests of the farm and the farm people—for their welfare and improvement it has assumed a large responsibility. But never has a Grange legislative enactment brought benefit and improved conditions to them without bringing it also to account and without bringing it also to scores and hundreds of others not members of the order and perhaps not even tillers of the soil. There is no place in the Grange platform for class legislation and its efforts are never directed towards narrow ends. But to best serve rural life, its interests and its people, by legislation and by education, this is the true Grange program. And in legislation, as well as elsewhere, its work, its policies and its demands succeed because they are indeed "fair and reasonable" to all.

Farm and City Wages.

The farmer is often charged with re-fusing to pay his hired help as much money as the same man could earn as a laborer in the city. In defense of the farmer we deny the charge. The laborer rarely makes more than \$1.50 a day in the city, and during rainy days and winter weather he lays off. When labor is scarce he may get \$1.75 per working day. If he works hard, which he does usually, he requires substantial food, and \$4.50 to \$5 per week is what board and room will cost him. Besides he hires his washing and ironing done, and we do not know what that costs. Do your own figuring, though, and see how he comes out at \$25 per month with board, room, washing and ironing. On the farm he

The popularity of "Bull" Durham is not confined to any one section. It is smoked everywhere—and, whether smoked in a pipe or "rolled" into a cigarette, it is the favorite everywhere.

Not a rich man's tobacco-not a poor man's tobacco. It is the tobacco for every man who wants a pure, mild, sweet smoke-regardless of price

GENUINE BULL DURHAM SMOKING TOBACCO

Forty "rollings" in each 5-cent muslin sack

This famous old tobacco is packed in a plain, homely, muslin sack that has become familiar to smokers the world over. It is not handsome or showy, but its cheapness permits just that much more goodness to go into the tobacco itself.

The Purest Form of Tobacco

"Bull" Durham is simply the gran-ulatedleaves of bright golden Virginia and

North Carolina tobacco. The purest form of tobacco human skill can produce.

Try a sack of this grand old tobacco today. See why more men smoke "Bull" Durham than all other high-grade brands combined. See why for three generations men have gone on smoking this glorious tobacco year after year, and will not be satisfied with any-thing else.



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NEW MAJESTIC: Earliest, biggest and best in the world; Early Ohio, Early Rose and Early Six Weeks, the standard of all varieties. Also Carmon No. 3 and Rural New Yorkers No. 2 and all other best sorts. All our seed grown in Red River Valley of North Dakota from strictly pure varieties. Write for high illustrated catalogue to Dakota from strictly pure illustrated catalog of Seed Pota RATEKIN'S SEED HOUSE, She

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The best Silo that can be built. Write for prices for 1912.

HOPPER & SON, Manhattan,

will miss some entertainment and chances to spend his money, but by so doing he will close the year with more money in the bank.

SEED CORN Hildreth Yellow Dent Commercial White

Two best varieties, yielding 10 to 20 bushels more per acre. Write for prices, and place orders early.

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SEED First prize six consecutive years at Manhattan—State Corn Show—proves I have best strains Seed Corn in the West. Reid's Yellow Dent, Beene Co. White. Write for free catalog. S. G. Trent, Box K, Hiawatha, Kansas.

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For the farmer and breeder for sale at this office. Send for catalog. Address

KANSAS FARMER, TOPEKA, KAN.

SEED CORNECOUNTY WHITE

This is good stuff. We suarantee it to please you. Our supply is limited. Price, shelled and graded, per bushel, \$2: in the ear, crated, per bushel, \$2.54.

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Most seed of 1911 crop will not grew. Have four varieties; can furnish ear or shell corn. Have tested my seed and will guar-antee it. Write for my circular and price list. Frank J. Rist, Humbeldt, Neb.

50 Concord Grapes \$1 Harty Vigorous
10 Dudded Cherrye \$2 Stock Susmated.
but has a reputation for low prices and sequandenting. Send for our Free Chalogue and Sie Due Bill.
FAIRBURY NURBERIES, Box y Fairbury, Neb.

TEN ASSORTED APPLE TREES, 10 peach, 10 cherry, 5 pear, and 5 plum trees prepaid to all points in Kansas and adjoining states for \$5.00. Fine catalog of fruit trees, berry plants, shrubs and flowers. Holsinger Bros., Dept. 58, Recedale, Kan.





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thing is more beautiful for the home than ferns. We you a beautiful collection of four ferns if you send mly 36 cents for one year's subscription to People's alar Monthly and 15 cents additional (46 cents in all), reddy and you will receive the ferns charges paid. Se's Popular Monthly, Dept. 10, Des Moines, Iowa

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Best All-Pur-

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Existence.

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GOOD TO EAT
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never been approached by any other variety. I have bred W. P. Rocks exclusively for 20 years and have some fine specimens of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45, and I prepay expressage to any express office in the United States.

THOMAS OWEN, Sta. B, Topeka, Kan.



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FREE Booklet by E. W. Philo, entitled "A Little Poultry and a Living." Or 18c. Both books and the new enlarged edition of the Philo System text-book, \$1.00, or all three books with our monthly magazine, Poultry Review, one year, \$1.50. E. R. PHILO, 63 North Ave., Elmira, N. Y.

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Hen Fruit.

I've fed 'em lime, I've fed 'em hay; I have a time to make 'em lay. They do not seem To kindly take To custard, cream Or angel-cake.

They fill their crops, They eat away, But there it stops; They never lay. When I get vexed, I'm pretty mean; I'll feed 'em next On Paris green.

—Louisville Courier-Journal.

Our greatest glory consists not in never failing, but in rising every time we fail.—Goldsmith.

Name Wanted.

Have a pattern order from Muncie, Kan., 9096, size 8. No name given.

"Ma, do cows and bees go to heaven?" "Mercy, child, what a question! Why?"

"Cause, if they don't, the milk and honey the preacher said was up there must be all canned stuff."

A Hopeless Case;

"Harold, dear, can't you mind mama? What makes you so naughty; don't you ask God every night to make you a

good boy?"
"Yes, I ask Him all right, night after night, but he don't seem to pay no 'tention to me."

Dropped Biscuit.

One quart of sifted flour, 1 teaspoonful of sugar, one teaspoonful of salt, and 4 level teaspoonsful of baking powder, all sifted together four times. Rub in 2 tablespoonsful of butter, and mix with 1 pint of milk. Beat vigorously for one minutes; drop by tablespoonsful into hot iron gem pans and bake 10 minutes in a quick oven. These may be made with rye or graham flour.

Nut Doughnuts.

One cupful of sugar and 1 cupful of mashed potatoes stirred together, add 1 mashed potatoes stirred together, and I cupful sour milk, the yolks of 2 eggs, ½ teaspoonful soda, ½ teaspoonful baking powder, 2 tablespoonsful melted lard, a little salt, nutmeg and cinnamon. To 1 cupful of flour add ½ cupful of chopped nut meats and mix all together. Add flour enough to roll out in a stiff dough, cut in short, narrow strips and fry in cut in short, narrow strips and fry in deep, hot fat.



9078. Infant's Set—Cut in one size. It requires ¼ yard of material for shoes. The skirt will take 1½ yards and the barra coat 1½ yards of material 36 inches wide. The little shirt will require ½ yard of material 27 inches wide.

9060. Girl's Dress—4, 6, 8 and 10 years. It requires 2½ yards of 44-inch material for the 2 year size. for the 8 year size.

9184. Misses' Waist—Sizes, 14, 15, 16, 17 and 18 years. It requires for the 16 year size, 3 yards of 36-inch material for the waist and 2 yards of 27-inch material for the

size, 3 yards of 36-inch material for the waist and 2 yards of 27-inch material for the tucker.

8892. Misses' Dress—Sizes, 14, 15, 16 and 18 years. It requires 4% yards of 44-inch material for the 16 year size, with 1½ yards of 27-inch material for the tucker.

9125. Ladies' Costume, with Tucker—Cut in sizes 34, 36, 38, 40 and 42 inches bust measure. Requires 6½ yards of 44-inch material, with 1½ yards of 27-inch material for the tucker for size 36.

9202. Ladies' Dress—Sizes, 32, 34, 36, 38, 40 and 42 inches bust measures. It requires 6½ yards of 36-inch material for the medium size.

9198. Ladies' Apron—Sizes, small, medium and large. It requires 3% yards of 36-inch material for the medium size.

9183. Ladies' Skirt—Sizes, 22, 24, 26, 28 and 30 inches waist measure. It requires 4 yards of 44-inch material for the 24 inch size.

9190. Boy's Suit—Sizes, 6, 8, 10 and 12 years. It requires 4 yards of 36-inch material for the 10 year size.

965. Girl's Dress, with Tucker—Sizes, 4, 6, 8, 10 and 12 years. It requires 2% yards of 40-inch material for the dress and % yards of 36-inch lawn for the tucker for the 8 year size.

Where Many of the Well Dressed Women Come From

In almost every community in the United States, in almost every country on the globe, there are well dressed women who buy their clothes from Montgomery Ward & Co. They buy through our Women's Fashion Book, an authority for the latest, the best creations for women's wear. The fit, the fabric, the style, the wearing qualities of their clothes are of the same high grade that is found in the clothing of the most fashionably dressed women of the big cities. And yet, these Montgomery Ward & Co. customers are paying only two-thirds, and often only one-half of what other women who buy from retail stores are paying.

And madam you, too, can have the best

other women who buy from retail stores are paying.

And, madam, you, too, can have the best quality of clothing that money and brains can manufacture if you will buy them through the pages of our WOMEN'S SPRING AND SUM-MER FASHION BOOK. You need only put your name and address on the coupon below and the number 30, which is the number of this book, and it will be sent to you at once, free of charge. Remember that we quarantee the fit, style, fabric, workmanship—overything—about each single garment, to please you perfectly. If for any reason you are not entirely pleased, you may return your purchase at once and we will refund your money and any transportation charges you have paid.

Put the numbers of the other books you want on the coupon also.

2. Planos.

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Samples,
27. Baby's Dress and
Tollet.
30. Women's Spring
Fashion-Book. nt the numbers of the books you need on s coupon, and your name and adress, and d it to us immediately.

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Splendid Coffee Growths



blended to bring out the full richness of the fragrant berry, roasted to the exact point of perfection, scientifically cooled — then into the box that keeps the strength till it reaches you. That's

TONE'S OLD **GOLDEN COFFEE**

The blend that makes the most entrancing of cups—rich, aromatic, satisfying. See that the seal is unbroken. Just ask your grocer. 35c A POUND

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There are two kinds of Spices, TONE'S and "others"

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to operate and repair (automobiles in our fully coupled modern shop.	N Company
giving training in vulcan- izing, drill press and lathe practice, qualifying	

you in 6 weeks. Free cat-alog. Lincoln Auto School, 2354 O St., Lincoln, Neb

BLUE RIBBON POULTRY FARM
The Home of Egg Producers.
We have Leghorns (8 varieties), Minorcas
(3 varieties), Blue Andalusians, Mottled Anconas, English Red Caps, Black Hamburgs, and Dominiques, all high class birds and big winners at Kansas state fairs and state show. Stock for sale, also plenty of eggs from pens containing our winners. Prices very reasonable.
Mr. and Mrs. Otis H. Crow, Hutchinson, Kan.

BUFF THE STRAIN

that has made ABILENE FAMOUS. Fifteen eggs, \$5. "YOUNG'S" Strain White Leghorns, 15 eggs, \$3. "LUSTROUS" Black Cochin Bantams, 15 eggs, \$1.50.

WILLIAM SCOTT, Box K, Abllene, Kan.

March 16, 1912.



Where Many of the Well **Dressed Women Come From**

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In almost every community in the In almost every community in the United States, in almost every country on the globe, there are well dressed women who buy their clothes from Montgomery Ward & Co. They buy through our Women's Fashion Book, an authority for the latest, the best creations for women's wear. The fit, the fabric, the style, the wearing qualities of their clothes are of the same high grade that is found in the clothing of the most fashionably dressed women of the big cities. And yet, these Montgomery Ward & Co. customers are paying only two-thirds, and often only one-half of what other women who buy from retail stores are paying.

other women who buy from retail stores are paying.

And, madam, you, too, can have the best quality of clothing that money and brains can manufacture if you will buy them through the pages of our WOMEN'S SPRING AND SUMBER FASHION BOOK. You need only put your name and address on the coupon below and the number 30, which is the number of this book, and it will be sent to you at once, free of charge. Remember that we guarantee the fit, style, fabric, workmanship—werything—about each single garment, to please you perfectly. If for any reason you are not entirely pleased, you may return your purchase at once and we will retund your money and any transportation charges you have paid.

Put the numbers of the other books you want on the coupon also.

2. Pianos.

2. Pianos.
2. Pianos.
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15. Carpets & Rugs.
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19. Sewing Machines.
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Growths

Splendid TONE BROS Coffee blended to bring out the full richness of the

fragrant berry, roasted to the exact point of perfection, scientifically cooled — then the box that keeps the strength till it reaches you. That's

TONE'S OLD **GOLDEN COFFEE**

The blend that makes the most entrancing of cups—rich, aromatic, satisfying. See that the seal is unbroken. Just ask your grocer. 35c A POUND

TONE BROS., Des Moines, la. There are two kinds of Spices, TONE'S and "others"

WE TEACH YOU 😴



BLUE RIBBON POULTRY FARM
The Home of Egg Producers.
We have Leghorns (8 varieties), Minorcas
(3 varieties), Blue Andalusians, Mottled Anconas, English Red Caps, Black Hamburgs,
and Dominiques, all high class birds and big
winners at Kansas state fairs and state
show. Stock for sale, also plenty of eggs
from pens containing our winners. Prices
very reasonable.
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Fifteen eggs, \$5. "YOUNG'S" Strain
White Leghorns, 15 eggs, \$3. "LUSTROUS" Black Cochin Bantams, 15 eggs,
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This Star On Every Heel The "Society" Shoe is truly a par-

The "Society" Shoe is truly a particular shoe for particular women, but better still, it is a "Star Brand" Shoe—
Last year "Star Brand" Shoes reached the largest sale the world has ever known—
seven million pairs.

The beautiful patent leather pump above shown is style No. 5300. It has short vamp, large slik bow, high Cuban heel. Beautiful—stylish—serviceable.

All "Star Brand" Shoes are honestly made of pure leather. No substitutes for leather are ever used. That's why

"Star Brand Shoes Are Better"

"Society" Shoes are made in white buck,

"Star Brand Shoes Are Better"
"Society" Shoes are made in white buck, carvas, tans, silk whippords, and all popular leathers—all the newest styles. Prices \$3.50 to \$4.00.

Beware of impure—adulterated shoes. Insist on having the "Society" with the Star on the heel. It means as much to you as does the "Sterling" mark on silverware. If your regular dealer does not sell them it will pay you to change dealers. Your name on a post card brings book of 30 new styles. The paytment A.17 styles. Department A-17

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SOLID REINFORCED CONCRETE SILOS

ELEVATOR AND GRAIN TANKS.
RESERVOIR AND WATER TANKS.
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meter TEN FEET and up. Write for esaate, giving size. Address F. E. VAN-SANT, Gen'l Contractor, 519 West St., To-pekt, Kan. Phone, Ind. 1758 White,

MAKE YOUR HENS PAY Our two BIG FREE BOORS tell YOU how. QUR New 2 Hatcher and Brooders will give you stronger chickens will save half the cost. Write for FREE BOOKS today was will take the cost.



CATALPA SEED—Money back if not pure Speciosa; 100 - tree pkg., 10c.; 1,000-tree pkg., 50c. S. H. Madden, Box 204, Granville Summit, Pa.

Bees on the Farm "Gleanings in Bee Culture" will help you get more pleasure and more profit from Bee keeping. Six months trial subscription, 25c. Book on Bees and catalog of supplies sent free. The A. I. Root Company, Box 220, Medina, Ohio.

The secret of accomplishing our labors easily is to do each duty every day. It the accumulation that discourages. You can do five things easily each day, but if you put them off and atempt to do 50 things on the tenth day—there's the trouble!

American Womanhood.

Echoes of the great achievements of women's work in the world are continually reverberating through the multi-form effort of this wonderful twentieth century and yet the greatest and the real accomplishment is not talked of and its influence alone is felt.

From California comes the report of woman's modest entree into the politics of that great and beautiful state—an entree so distinguished by its dignity that it must always be an honor to American womanhood. It is this digni-American womannood. It is this dight-fied and gentle attitude toward the world's work in which she is taking so large a part that is the most encouraging phase of the development of femininity. It reveals an underlying current of culture and refinement which for the last half century—since the colleges and higher schools of learning have opened their doors to women—has been constantly augmented.

Leaving the farms, the crude homes with their narrow limitations in towns, dwelling places of small refinement in the crowded cities, an army of young women go to college each year-and this is especially true of those places of higher learning in the Middle West and the West—and here the principles of the higher culture are inculcated into their characters, their tastes are refined and they are given high ideals and taught to think and how to apply their thoughts.

They come to know that a well developed body is the successful basis for the operation of a good mind. Out-door life becomes a habit. They are led to realize that in a happy existence the element of beauty must always have a part. These young women leave the colleges and universities each week. colleges and universities each year and scatter all over the United States. Some go back home and in the community in which they live a change gradually takes place. Many begin in a humble way, expecting and looking for no reward.

One summer the back yards in a city were cleaned up and turned into gardens

by the children who were working for a prize offered by a local newspaper through the instigation of a college woman. The fathers of the children caught the spirit and helped in extending the work. Vines were set out to cover factory walls. Unsightly rubbish was taken from the river front and over posts and fences vines of the perennial variety climbed. The city became known all over the country as "The Beautiful although few knew of the in-City,"

fluence that was its inception.

Gently but steadily all over the United States women are changing the old conditions into those made better by cultured taste. It is the element of beauty and symmetry, of the true harmony and accord that yields the greatest happiness to the greatest number.—National Monthly.

Traveling Farm Schools.

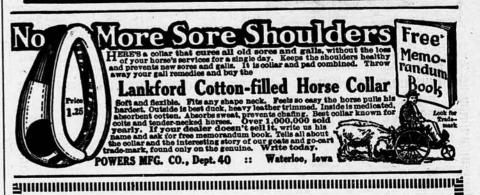
The average man who buys horses or cattle has to pay a goodly "pile" in bad trades before he becomes a good buyer or a good judge of stock. Of course it takes a long time for a man to become an expert stock judge, and he can't be made perfect in three days, but the Kansas Agricultural College will offer several "three-day schools" this spring in the following subjects: "Live Stock," "Corn and Stock," "Dairying,"

"Poultry," "Orcharding."
In the first the whole time will be devoted for three days, 9 A. M. to 4 P. M., to drills in judging horses, cattle, hogs and mules, with two lectures each day on Live Stock Improvement. A "corn school" will be offered for a class of men who want to devote their whole time to it, but it is recommended that in such communities the men combine this work with stock judging. In some places a class will be formed to devote the whole time to dairy problems, judging dairy cows, testing cream, handling separators, Babcock test, churning, etc., with lec-tures on dairy breeding, feeding, silage, sanitation, etc. Many other neighborhoods would be more interested in poultry and would want a "poultry school." Others still ought to choose an "orchard and garden school."

These schools can be held only in March and April. Persons interested should write at once for dates and terms and conditions to Mr. G. W. Conn, Superintendent of Farmers' Institutes, Man-

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One Year's Subscription to KANSAS FARMER—

The cleanest, most practical weekly agricultural paper in the Southwest. Not a line of medical, whisky or fake advertising accepted. Every line of reading matter written by actual farmers or men with experience on the farm. Special de-

partments devoted to all kinds of live stock, dairying, poultry, bees, home circle, farm, etc. A whole library of information will be found in the two thousand or more pages of KANSAS FARMER each year.

One Year's Subscription to The American Swineherd.

For over twenty-five years the Swineherd has been the hog raiser's acknowledged authority. There is hardly a farmer in the Southwest with the swine industry of the United States without the Swineherd.

One Year's Subscription to Kimball's Dairy Farmer.

Every man who keeps a cow ought to have this great semi-monthly dairy magazine. Each issue printed on high-grade book paper, containing from 32 to 74 pages of the best in-

formation on dairying and the breed-ing of dairy cattle by expert dairy-men. If you breed, feed or milk cows for profit you need this great dairy paper.

One Year's Subscription to The Poultry Standard.

The wonderful progress of the poultry industry in the Southwest has placed it on a level, if not above, in importance with any other interest of the farmer. The women and young

folks will be especially interested in the Poultry Standard, which is one of the very best publications devoted to this growing industry.

One Year's Subscription to The Fruitman and Gardener.

Fruitman and Gardener has the strongest department devoted to the growing and marketing of fruits and vegetables of any publication in the country. It carries a department entitled, "Correspondence School of Strawberry Culture," answering free all questions of subscribers who are interested in strawberries. Its de-

partment on practical spraying is edited by Mr. A. N. Brown, a man of twenty-five years' experience in spraying materials and an expert in his line. These are only a few of the special features of the Fruitman and Gardener. Its value to anyone owning even a small orchard or garden cannot be estimated.

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Each magazine is special in its particular line. The one hundred and twelve copies you get in this club for \$1.50 will equal forty average sized books. Just think of it! Send your order at once. Renewal subscriptions accepted the same as new.

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Get Ready Now to Till Deep

Fred W. Ladage, Auburn, Ill., writes: Corn from ground tilled with Spalding Deep Tilling Machine averaged 79 bushels to acre. Corn from shallow plowed ground, same field,



only 67 bushels per acre. Oats from Spalding tilled ground 40 bushels to acre; from shallow tilled less than 30 bushels. 20 acres of Spalding tilled ground yielded 807 bushels of wheat. J. W. Jefferson, Springfield, Ill.: "Corn in

Spalding tilled ground showed an increase of 25 per cent, wheat 50 per cent."

25 per cent, wheat 50 per cent."

W. B. Cole, Painesville, Ohio: "80 to 80 per cent increase in rye crop in field tilled with Spalding machines."

John Wray, Ft. Worth, Texas: "The Spalding's work produced the heaviest spring cats that ever grew on the land I cultivated with it, while not ten feet away from the furrow line cats in an ordinary seedbed were worthless."

J. H. Pinson, Greiger, Ala: "The yield of corn on land tilled with the Spalding was more than double what it had been before."

The Spalding Deep Tilling Machine

by pulverizing the ground 12 to 16 inches deep or more makes the ideal seed bed-makes more plant food available - saves moisture against drought. These men tell you so. We will send you their full statements. If the Spalding does so much on their farms won't it increase

your crops? Investigate the Spalding now so you may order before the spring rush. Get your name on our free mailing list. Drop a postal or mail coupon today.

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Send me your free deep-tilling books. This places me under no obligation.



Model 0 Quincy"

Purpose Tractor

All-

A Practical Machine for Average Size Farms

4 Cylinder Vertical Engine 30 H. P. at the Brake 15 to 20 H. P. at Draw Bar

3 Speeds Forward and Reverse One Man Can Handle Weighs Less—Pulls More

The Model O "Quincy" is the machine for everyday use on farms of 160 to 300 acres. Weight only 6000 pounds, yet it pulls four 14-inch plows and easily does the work of 12 horses. It is equally adapted to farm, road or belt work. Just what threshermen want to operate separators, clover hullers, shredders, large hay presses, etc. We have combined power and light weight and built for guaranteed service. Look into what it means for you. See your dealer or write us for Catalogue No. 19.

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Cash with order F. O. B. Stoughton, Wisconsin



MOLINE Wagon Box Spreader With Special Steel Wheel Truck

A Combination Unequaled by Any Other on the Market

ILLUSTRATED FOLDER FREE

SPREADER Positive drive from both wheels Large beater. Light Draft Spreads one to twenty-one loads per acre.

TRUCK 3½ Cast Skeiu, Hickory Axles Angle Steel Front, Full Length Rear Hounds, Steel Wheels Flange Tires. Mud Lugs.

Flying Dutchman Quality at Exceptional Prices



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MOLINE, ILLINOIS



SELECTING THE SILO. (Continued from page 4.)

an aid in digestion and as a tonic to the animal. The development of these acids is favored by high temperature which is essential to the perfect preser-

vation of the silage.

The authors explain in this bulletin why the silo should be properly constructed, and of a non-conductible material. Quoting from a part of their bulletin we have the requirements for the proper curing of silage:

"The necessary factors are, proper temperature and absence of air. The development of heat is spontaneous. The lack of air is obtained by close packing and pressure of the silage and air-tight walls. All these factors are automatic and are produced to perfection in a properly constructed wooden stave silo.'

In determining the curing of silage on different temperatures, the authors give data on the benefit derived from the higher temperatures, in the curing of silage, and conclude with the following quotation:

"This experiment explains why silage does not keep as well in cement, stone or brick silos. The cement, stone and brick conduct away the heat generated in a silo and the acid fermentation is checked unless the temperature of the acid at siloing time is much warmer than normal. Another factor is that cement and brick are porous and allow the silage to get air which causes it to spoil. The appearance of silage is not a complete

appearance of silage is not a complete guide as to its quality. It may appear to keep perfectly at the edges of a cement silo, but the acid and chemical tests are necessary to prove that it is normal silage. The odor of silage is the next best test."

In testing the silage produced by different kinds of silos they give the following comment, to explain the reasons why wood makes the best material for why wood makes the best material for

why wood makes the best material for preserving the silage:
"In the first place, wood is a poor conductor of heat. It conserves the warm temperature at the beginning of fermentation so the proper acid is formed, and prevents largely the freezing of silage. Secondly, silage keeps best against wood and nothing is lost around the edges. In some cement silos quite the edges. In some cement silos quite a loss of silage is experienced at the edges."

The testing of conduction by using a

sile having a number of different materials in the wall, alternating wood, stone, brick, etc., gave the investigator a good opportunity to note the bacterial changes which take place as enforced by heat or cold, and they conclude their bulletin by the following statement:

"When ensilage comes into contact with the brick and the cement surface of the stone and the brick, the heat generated by fermentation is conducted."

erated by fermentation is conducted away so rapidly that the temperature does not rise to the height necessary to prevent the development of the organ-isms of putrefaction; that is, to prevent rotting; or perhaps, the temperature does not rise to a height sufficient to cause the best development of the organisms of fermentation and to prevent thereby the development of the organisms of putrefaction.

What Makes Soils Productive.

"Any soil which was once rich can again be made rich," is the declaration made by the dean of the College of Agriculture, Ohio University, in a recent address. The principal factor concerned in the restoration of soil fertility is organic matter. "The destruction of organic matter, by cultivation and otherwise, is largely responsible for the depletion of our soils," said he. "This organic matter must be restored if we expect our farms to be productive. What does organic matter do? It increases the power the soil to al ture; improves the physical or mechanical condition of the soil; helps to control soil temperature, and is a store-house of plant food. How can organic matter be restored to the soil? By saving all animal manures and putting them onto the land; by making use of all crop residues, that is, putting back into the soil everything not used for feed; by turning under green manuring and catch crops." He pointed out the loss sustained by burning straw stacks and other crop residues and declared that the difference between the careful saving of this plant food and its wanton destruc-tion was "the difference between the salvation and damnation of our soils."

Lake View Farm at Greenwood, Mo., is advertising some Guernsey bulls and Poland China pigs of the best breeding. The ad-vertisement appears under Guernseys.

LAME HORSE?

Mark the Spot

E guarantee to cure your horse of or isk whatever. Just put a cross where the lameness occurs. We will send you the Best and Most Reliable Diagnosis Absolutely Free.

All you have to do is to mark just where your horse has a swelling, sore or any one of the big number of possible we will then give the coupon to us.
We will then give the coupon to our practicing Veterinary Specialist for his expert diagnosis. We then inform you of the cause of your horse's lameness and the remedy that will absolutely cure him. We do all this for nothing.

Be positive, know what you are doing and thow that you are treating the right spot in the right way. Don't disfigure your horse and reduce his market raine. Write to us. We and you a \$1000 Warrand Bend to guarantee you against her—for

MACK'S \$1000 SPAVIN REMEDY

You cannot afford to neglect this opportunity. We guarantee to cure your horse of Bone or Bog Spavin, Ringbone, Thoroughpin, Cuth, Capped Hock, Shoe Boll, Syrung Knee, Lacerated and Ruptured Tendona, Sweeny and all other forms of lameness.

Mack's \$1000 Spavin Remedy goes right to the source of the trouble and quickly restores natural, heatthy conditions in the bones, muscles and tendons of your horse. It cures lameness in just a few days and the animal may be worked as usual. Contains nothing to injure or scar the horse.

Hackmanck, N. I. Does 3, 1002.

to injure or scar the horse.

Hackensack, N. J., Dec. 3, 1911.

McKallor Drug Co., Binghamton, N. Y.

Gentlemen:—'I take pleasure in advising you that I purchased a bottle of Mack's \$51000 Spavin Remedy, and used it on one of the largest curbs I have ever seen, and which I thought incurable, but after using about one third of the bottle of your wonderful remody be has become sound, and as smooth as the day he was foaled. It certainly is the greatest remedy on the market.

Yours respectfully, GEO. MOLLOY.



WoRALLOR DRUG COMPANY Binghamton, N. Y.

Your Horses are Entitled to a Haircut Before the Spring Work Begins



Farmers and horse owners of England and Fra we done it for years and it is done now by re-easive owners everywhere in this country. No way to do it so easy, so quick or so well

Stewart Ball Bearing Clipping Machine The price of this splendid \$7.50 machine is only at your dealers direct. It is used in every civilized country, has all file hard cut steel gears, enclosed, protected and runsing in oil.

Get one from your dealer or send \$2 and we will ship C. O. D. for the balance. Send now.

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1553 acres, 400 cult., fenced, cross-fenced, good houses, water plentiful, black and andy soil, \$12. McMAHON, Conroe, Texas.

FINE 80-AORE FARM, 20 mi. from To-peka. Equity for good western quarter. O. I. Elliott, 435 Kansas Ave., Topeka, Kan.

TRADES WANTED—We want to list your roperty, and to mail you list of trades. ry us. Owners' Exchange, Salina, Kan.

Two Fine 80 a., close to good town. Equity or good clear land. O. M. Elliott, 435 Kanas Ave., Topeka, Kan.

WANTED—Farm in northeast Kansas in exchange for well improved 320 in Washington Co. Write Lock Box 71, Morrowville, Kan.

160 ACRES—Fair improvements; 130 a. in cultivation. Will trade for western land. 0. M. Elliott, 435 Kansas Ave., Topeka, Kan.

50 REPUBLIC COUNTY FARMS.
All sizes, \$40 to \$100 per acre. Write for S. M. PATTERSON, Belleville, Kan.

80 ACRES—\$4,200, IMPD., WELL watered, phone, rural route, 4 ml. from county seat, school close. D. G. Campbell, Burlington, Kan.

SOME ONE has just what you want. OME ONE wants just what you have. For unick action and satisfaction address I. A. tarper Co-Operative Realty Co., Hoising-

FARMS AND RANCHES for sale or trade. Corn, wheat, alfalfa and pasture land at from \$10 to \$40 per acre. You should buy now. Let us tell you why. Sperry & Olson, now. Let us tell ; Hill City, Kansas.

200 acres, reasonable distance from two good towns; considerable level, some slightly rolling but very little rough, well grassed. Price, \$10.50 per acre, \$800 cash; anything worth the money for balance.

MARKS & DAY, Meade, Kansas.

SAY! WATCH BARGAINS, KAY COUNTY, OKLAHOMA.

Fine 160 a., 5 r. house, new barn, silo. A bargain at \$8,500. Write your wants. I've

got it. List free. E. E. GOOD, Newkirk, Okla. 160-ACRE FARM, four miles of county seat, well improved, 100 a. in cultivation, \$7,500; \$1,000 cash, \$500 yearly payments. Also well improved 160-a. farm, \$6,000, on ways terms

J. H. FUSS (The Land Man), Medford, Okla.

RIGHT FARM AT RIGHT PRICE—Improved Dickinson county, Kan., 160, cheap. Terms. Exceptional condition. Nearby farms selling \$100 acre. Consider 80 acres, equitable exchange. Possession. Get details now. E. L. Perring, Abliene, Kan.

A KANSAS BARGAIN—160 a. fine land, level; 100 acres fine wheat goes; large 6-room house, barn 32x60, granary, etc.; \$2,-500 to \$3,500 will handle, balance 9 years time; near town. I. R. Krehbiel, Geneseo,

FOR EXCHANGE.

For Trade—80 a. valley land, 2 miles of Wheaton, in Pottawatomic Co.; 60 acres in cultivation; good improvements. Price, 34,800. Mtg. \$1,800 due in 10 years. Want income or western land. Cave Realty Co., Salina, Kan.

GREENWOOD COUNTY FARMS and well-grassed stock ranches, in the corn, clover and bluegrass county, for sale at low prices on liberal terms. Write for full information.

J. G. SMITH, Hamilton, Kansas.

SUBURBAN, NEAR HIGH SCHOOL, \$1800.

For Sale—25 acres, nice land, 2 blocks from county high school building, at Altamont, Kan. A fine place to build a home and be in town without being crowded or paying city taxes. Write for full description.

DONAHUE & WALLINGFORD, Mound Valley, Kan.

SOUTHEAST KANSAS.

Mild Climate. Rich Soil. Plenty of Water. We have bargains in farms, 80, 160 and 320 acres. Also, some good pasture land. We sell cheap for cash on good, reasonable terms. We also have tracts of different kinds and sizes to exchange for merchandise or rental property. Write us your wants. LONG BROS., Fredonia, Kan.

HARVEY
COUNTY

You have undoubtedly
heard of Harvey Co., Kan.
First class alfalfa land,
agreeable surroundings, deditions by reason of 20 years' residence here.
Descriptive pamphlet on application. Let
me know what you are seeking. Can undoubtedly fill your wants. doubtedly fill your wants.

C. M. GLOVER, Newton, Kan.

ACT QUICKLY FOR THIS.

Farm of 240 a, 7 ml. from city, all fenced and cross-fenced, 90 a. in cult., 50 a. hog-tight, bal. native grass meadow and pasture. Fine 2-story house, good barn, feed lots, cribs, etc.; large bearing orchard; plenty of good water; half mi. to school, good road to town. Easy terms. \$30 per 2. Fine bargain. Write quick.

W. A. NELSON,
Fall River, Kan.

FOR SALE

1,700 acres of my 4,400-acre ranch in Kearney County, Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alfalfa land, 100 acres in alfalfa; all fenced with three and four wires; 5-room frame house, stone basement; barn 26x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in Plag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price, \$20 per acre net to me. Can be in payments. Can be in payments. H. H. SMALLEY, Springfield, Mo.

BUY OR TRADE WITH US—Exchange book free. Bersie Agency, El Dorado, Kan.

WE TRADE OR SELL ANYTHING ANY-where. The Realty Exchange Co., 18-22 Randall Bidg., Newton, Kan.

Come to Comanche County. In the great wheat belt. Write for free list of choice bargains. P. H. Thornton, Coldwater, Kan.

LAND of the beef steer and his sister, corn, hogs wheat and alfalfa. List Free. F. C. Brackney, Burlingame, Osage Co., Kan.

40 ACRES, 4 mi. from Kosoma, Okla., clear, all plow land, to exchange for restaurant stock, clear, well located. J. A. Kasparek, Believille, Kan.

OLD VIRGINIA FARMS!. 700 bargains. Send for catalogue. Low priced lands. Mild climate. CASSELMAN & CO., (Established 20 years), 1018 E. Main St., Richmond, Va.

1,000—FARMS—1,000 Everywhere for Exchange. Get our fair plan of making trades all over the United States. Graham Bros., Eldorado, Kan.

FOR SALE—6000 a. of improved farm lands in Jefferson and Stephens counties, Okla., in tracts from 50 to 640 a., one-fourth cash, balance 1 to 10 years, title perfect. L. W. TARKENTON, Waurika, Okla.

RIVER LAND RANCH FOR TRADE—SNAP 1,000 acres, more than half river bottom, all fenced, buildings, 12 miles to railroad; fine hay meadow, shallow water. Price, \$35 per acre, one-half in income property, balance cash. R. S. COX, Guymon, Okla.

A BIG BARGAIN! A BAU BARUAIN!

160 acres rich creek bottom farm, all fine alfalfa land, 130 a. cult., 20 a. in alfalfa, 7-room house, large barn, 60x42, other improvements. Must sell quick. A big snap. Will carry \$4,700. Price, \$45 per a. M. T. SPONG, Fredonia, Kan.

100-FARMS-100

improved and unimproved, at bargains.
Desirably located.
THOS. DARCEY,
Real Estate and Insurance, Offerle, Kan.

NOTICE !

I have the exclusive agency of some of the best farms in Anderson county, Kan., at the owners' price on a straight commission. Free lists. Address, W. L. MORRIS, Own-ers' Agency, Garnett, Kan.

STAFFORD COUNTY, KANSAS. One of the best farming sections in the state; write me for descriptions and full particulars about some of the fine farms I have for sale in this section; good crops all the time, A. L. McMILLAN, Stafford, Kansas.

FARMS AND RANCHES

for sale or exchange. Wheat, corn, alfalfa and pasture lands from \$3 to \$150 per acre. Small tracts close to Wichita. The best time to buy Wichita property. \$2,000,000 union depot and elevated tracks this year. Tell us what you want to buy or exchange. PUTNEY & DUNN, Over 318 E. Douglas, Wichita, Kan.

BUTLER, HARVEY AND SEDGWICK
BARGAINS.

Genuine Snap, 160 a., near good town, 1
mi. to school, all tillable, 80 a. in cult, 15 a.
meadow; bal. pasture, all fenced, family
orchard, nice grove, good 7 r. house, all
necessary bldgs. Price only \$40 per a.; easy
terms. Write for new list and Kansas map.
Eberhard & Mellor, Whitewater, Kan.

WANT A LOCATION?

I can sell or exchange your farm for you for another farm, city property or business of any kind. If you wish to change location give me a full description of what you have to offer, what you want and where you want it. Owners only. CARL M. COOK, Limon, Colo. Colo.

THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed educational, business and religious advantages, in a city clean, progressive, where real estate values are low but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

ESTATE FOR SALE.

Buy direct and save commissions. 460 acres of fine valley land; 3 miles from county seat, best town in the gas belt. Gas belongs to land; revenue of \$250 to \$300 per year. Well improved; nice house, large barn; 160 acres now under cultivation, balance fine blue steam meadow and pasture. Want to sell by March 1. Quick cash price, \$45 per acre. Lock Box No. 926, Fredonia, Kan.

FOR SALE—480 acres, 5 miles north of Lawrence, Kan., 1½ miles from Midland. 400 acres tillable, mostly second bottom. No overflow land. Is watered by two neverfailing streams; has 8 large barns, a large house, and numerous outbuildings, all in good condition. There is no better grain or stock farm in eastern Kansas. A bargain at \$75 per acre. Charles E. Sutton, Lawrence, Kan.

ARKANSAS

We have opened an office in Little Rock for the convenience of our customers wanting land for homes or for investment in Arkansas. Land here as fine as lays out doors sells at a half to a fourth what it does in Kansas. Arkansas has not been in the path of the land boomer and land values are yithin the reach of any industrious man who desires to own a farm of his own. Reltable information about land anywhere in Arkansas will be given free to anyone who is interested. Fredonia office will remain unchanged.

terested. Fredonia office will changed. Changed. State Rock, Arkansas.

C. A. LONG, Fredonia, Kansas.

WESTERN KANSAS LANDS—In all size tracts, improved or unimproved, close to railroads, level country, good water, rich soil and plenty moisture. One crop will pay for the land. Write or call and make me prove it. Literature free. I. J. HOSTETLER, Syracuse, Kansas.

A GOOD FARM AND STOCK PROPOSITION—6 miles from Kingman, 400 acres, with 160 well improved, 140 cult., good buildings, silo, etc. Price, \$42.50 per acre. Then we will assign lease to 560 acres adjoining, grass land, not for sale. Rent, \$825 per year. Call on THE MOORE LAND CO., Kingman, Kan.

WRITE W. D. STEMMONS, GOLDEN City, Barton County, Mo., for prices on good farms.

QUICK SALES, EXCHANGES—LARGE property list. Write John L. Maurer, Omaha, Neb.

FOD SALE-80 A. ALFALFA LAND. IF interested write for list of ten 30 acre tracts near Salina. V. E. Niquette, Salina. Kansas

OKANAGAN VALLEY FRUIT LAND FOR ale by owner. C. M. Bottomley, Oroville,

SELL YOUR PROPERTY QUICKLY FOR cash, no matter where located. Particulars free. Real Estate Salesman Co., Dept. 77, Lincoln, Neb.

BEAT IT—IMPROVED LOGAN COUN-ty, Kan., alfalfa and stock farm, 160 acres, \$2,500; \$1,000 cash; balance time. Florida Everglade bargains. H. M. Davis, Ft. Lauderdale, Florida.

INVESTIGATE WYOMING—60,000 acres, completed irrigation system, abundant water. 35,000 acres Carey Act lands; rich soil; low prices; easy terms. Wyoming Development Co., Cheyenne, Wyo.

FARMS WANTED—WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property Free. American Investment Association, 42 Palace Bidg., Minneapolis, Minn.

WRITE US FOR OUR LIST OF IM-proved farms for sale. Some of the finest farms in Kansas and other states on easy terms and very low prices. We list only what we consider as genuine bargains. Garver & Co., Box 142, Topeka, Kan.

FOR THE BEST LAND IN ARKANSAS for your money, improved and unimproved, large and small tracts, nice homes, well located, write Brown & REYNOLDS, Camden, Ark.

CHEAP HOMES in the Beautiful Ozarks. Finest springs, healthiest climate, and the cheapest good lands on earth. No drouths, no hot winds, nor cyclones. Raise anything that grows out of the earth, except tropical plants. Look at these bargains: 160 acres, 8 miles from railroad, 3-room house, barn, two fine springs, 70 acres cultivation, for \$1,500. 40 acres, some improvements, \$300. 80 acres, 30 cultivation, 3-room house, fine spring, \$800. Write for list of bargains. Globe Realty Co., Ava, Mo.

IF YOU WANT TO SELL YOUR FARM—Among the more than 60,000 farm homes into which this paper goes every week, there may be a man or woman looking to buy just what you have to sell. Did you ever notice that every one who wanted to sell his farm, sooner or later found a buyer? When the offer of a farm becomes known more and more, the chances for a quick sale at the desired price get better and better. You can't make your offer known to possible buyers any more cheaply than through an advertisement on this page. The cost is small and the value big. Write for special low land advertising price. Address simply Kansas Farmer, Topeka, Kan.

THE STRAY LIST.

IN THE MATTER OF A CERTAIN stray mare, taken up by C. E. Thompson, of Greenfield Township, State of Kansas, Elk County. To E. L. Barbour, County Clerk: I, John Stockdale, a Justice of the Peace of Greenfield Township, said County, do hereby certify that on the 16th day of February, 1912, one C. E. Thompson filed before me his affidavit of the taking up of a certain stray mare, as required by law, and that the following is a true copy of the description and value of such stray towit: One bay mare 2 years old, star in forehead, and the said C. E. Thompson, the taker up, resides in Greenfield Township, said County. His postoffice address is Grenola, Elk County, Kan. Witness my hand, at Grenola, in said County, this 16th day of February, 1912.—JOHN STOCKDALE, Justice of the Peace.

FIELD NOTES.

Auld Brothers' Red Polls.

Auld Brothers Red Follows

Auld Brothers, the successful breeders of Red Poll cattle at Frankfort, Kan., ask us to change their advertising card so as not to offer females; they are all sold out on females, but have 10 young bulls yet for sale. Write them while they last.

Chapin for Duroc Sows.

Grant Chapin, the old reliable Duroc Jersey breeder of Green, Kan., djd not hold a bred sow sale this winter, but offers for sale privately 25 sows and glits bred to his great boars. Mr. Chapin's Durocs are second to none; they are strong in the blood of the Col. and Crimson Wonder families. Write Mr. Chapin for prices, etc., mentioning Kansar Permer. sas Farmer.

Ard-Righ Stock Farm Herds.

Ard-Righ Stock Farm Herds.

Attention is called to the card of Dr. S.
D. Henry of Ard-Righ Stock Farm, Excelsior Springs, Mo., which commences in this issue of Kansas Farmer. At this time they are offering a high-bred, high-class Guernsey bull calf and a number of high-class Duroc Jersey gilts and boars. The Guernsey herd is one of the very select herds in the country, and Henry's Ard-Righ of the Preel is not only bred right, but is an excellent individual in every way. The Duroc Jersey herd is headed by Missouri King X, by Missouri King II, prize winner at the Kansas City Royal, and he is assisted by 3rd Climax, by 2nd Climax, dam by Missouri King out of Neille Wonder 2nd. The sows of the herd are a very fine lot, and it is composed entirely of representatives of the best blood lines of the breed. A feature of the farm that will appeal to all lovers of good horses is the registered Belgians and saddle horses will be made later. They also breed Shetland ponies. Visitors are always welcome. Please mention Kansas Farmer when writing.

-FIELD SEEDS-NURSERY STOCK

PURE-BRED SEED CORN—SELECTED, graded, tested. Harry Haynes, Meriden, Kan.

SWEET POTATO PLANTS—Chas. Stroh-schein, Sargeant, Minn.

YOU NEED A BERMUDA PASTURE. Free booklet. Write F. A. Mitchell & Son, Route 5, Chandler, Okla.

SEED CORN—HILDRETH'S YELLOW Dent. Write originator, breeder. C. E. H. Hildreth, Altamont, Kan.

ALFALFA SEED — EXTRA QUALITY, \$9.50 per bushel. Mrs. John Campbell, R. F. D. No. 1, Smith Center, Kan.

250 STRAWBERRY PLANTS, \$1. BEST three varieties. Fruit trees at wholesale. Free list. John F. Dayton, Waukon, Iowa.

CLOVER SEED FREE FROM BUCK-horn, and a full line of field seeds. D. O. Coe, 119 E. 6th st., Topeka, Kan.

FOR SALE — SEVERAL THOUSAND hedge posts, extra fine. Alex Spong, Chanute, Kan.

FLOWERING PLANTS AND BULBS— 100 gladiolus bulbs, \$1, postpaid. Send for price list. Orongo Flower Gardens, Carthage, Mo.

GIANT-BLACK-HULLED-WHITE KAFIR corn. Selected 15 years for early ripening. Guaranteed pure. Chas. Mitchell, Route 1, Lafontaine, Kan.

ALFALFA SEED — OFFER EXTRA quality alfalfa seed, non-irrigated, \$9.00 bu., delivered any station in state Kansas. Sack free, Sample sent on request. L. A. Jordan, Winona, Kan.

1,000 BUSHELS PURE KANSAS SUNflower seed corn. This corn is pronounced O. K. by corn experts and is as good as the best. Price, \$1.75 per bu. Write for circulars. A. L. Brooke, Grantville, Kan.

FOR SALE—BOONE COUNTY WHITE seed corn. First prize Hutchinson and Topeka State Fairs, 1911. Plymouth Rock cockerels. I refund your money if dissatisfied. E. E. Hazen, Hiawatha, Kan.

Nevius & Wedd Sale Average \$36.

The Poland China sale pulled off by C. S. Nevius and Ralph Wedd, Friday, March 8, did not bring quite their value, 34 head selling for \$1,225. Owing to the fact that the sale had been postponed, several of the sows had farrowed litters and could not be sold to parties off at a distance. The offering was good, and should prove money makers for the purchasers. Messrs. Nevius and Wedd are contemplating holding another sale on May 14. Please keep this in mind and arrange to attend.

D. M. Gregg, owner of the Longview herd of large type Poland Chinas at Harrisonville, Mo., is offering a few choice glits bred. Mr. Gregg has at the head of his herd Young Mastiff, a boar that was placed first and grand champion at the Kansas State Fair at Topeka in 1910. A number of the glits offered for sale are sired by this hog, and would make splendid foundation stock for anyone wanting to start a herd. Please look up advertisement and write for prices. Kindly mention Kansas Farmer. herd. Please loc write for prices.

W. C. Jones & Sons' Holsteins.
W. C. Jones & Sons, Route 2, Topeka,
Kan., start their advertising card in Kansas Farmer this week. This herd of Holsteins is one of the oldest and best in the state. It was established under the ownership of Hughes & Jones and became well-known for its quality. Jones & Sons now own the entire herd and have placed the splendid young bull, Pietertje Hengerveld Nannette, at the head. He won the junior championship at the Topeka, Hutchinson and Oklahoma State Fairs in 1911, and their young herd stood first in all these and county fairs, beside. This is a splendid herd and the young bulls that are now offered for sale were sired by the present herd header and out of heavy producing cows. Visitors always welcome, and a square deal is guaranteed on mail orders.

Big Horse Sales.

Watson, Woods Brothers & Kelly Company, of Lincoln, Neb., write us as follows: "We have just closed a sale to Brown & Mood, of Moscow, Idaho, of the following imported stallions and mares: The black 2-year-old Percheron stallion, Jobard, No. 83259; the black 2-year-old Percheron stallion, Jaspe, No. 85000; the black 6-year-old Percheron stallion, Jaspe, No. 85000; the black 2-year-old Percheron stallion, Jobard, No. 77049; the black 2-year-old Percheron stallion, Joueur, No. 87119; the sorrel 2-year-old Belgian, Jacques de Zuy-enkerke, No. 6221; the English Shire stallion, Baron Frester II, No. 25892; the 2-year-old English Shire stallion, Baron Frester II, No. 25892; the 2-year-old English Shire stallion, Nailstone Waggoner, No. 28978, this horse having won first and champion at the Kansas State fair; the 5-year-old Shire mare, Cockshott Star, No. 10805; the 6-year-old Shire mare, Bounce, No. 10802; the 3-year-old Percheron mares, Imperatrice, No. 96880; the 3-year-old Percheron mares, Imperatrice, No. 96880; the 3-year-old Percheron mare, Idylle, No. 93344. All these animals are individuals of outstanding merit and their get will certainly tend to improve the class of stock raised in the section of the country to which these stallons are being shipped. Owing to the death of Mr. Joseph Watson we did not receive our usual spring importation. However, we wish to state to any prospective purchaser that we have a very fine line of 2 and 3-year-old Percheron, Shire and Belgian stallions on hand at the present time, and believe we can satisfy the most critical buyer."

(Continued on page twenty-nine)

WHERE TO BUY PURE-BRED POUL

ORPINGTONS.

S. C. BUFF ORPINGTONS COCKERELS, \$1.50. Mrs. T. N. Beckey, Linwood, Kan.

SINGLE COMB BUFF ORPINGTONS. Eggs. \$1.50 per 15; \$6.00 per 100. Free range. Mrs. O. Russell, Canton, Kan., R. 2.

FOR SALE—S. C. WHITE ORP. PULlets. Cockerels, \$2.50; eggs, \$2 for 15. Emma Stocking, Audubon, Iowa.

S. C. BUFF ORPINGTON EGGS—FARM range, \$1 per 15; \$5 per 100. Mrs. S. T. White, Rose, Kan.

SINGLE COMB BUFF ORPINGTON roosters, \$9.50; 15 eggs, \$1.50; thoroughbred. Mrs. Henry Forke, Raymond, Neb.

KELLERSTRASS STRAIN WHITE ORP-ington. Eggs, \$1.50 per 16; \$7 per 100. Ed Leciere, Central City, Iowa.

BUFF ORPINGTONS—GRAND WINTER layers and farm raised; winners wherever shown; catalog free. I guarantee to please. Aug. Peterson, B. K., Churdan, Iowa.

SINGLE COMB BUFF ORPINGTONS— Eggs and baby chicks. Prize winning stock at scrub stock prices. Write for free mating list. J. F. Cox, Route 8, Topeka, Kan.

ROSE AND SINGLE COMB RHODE Island Red eggs for hatching. First pen, 75c for 15; second pen, 50c. F. B. Severence, Lost Springs, Kan.

S. C. BUFF ORPINGTON EGGS—COOK strain. We have quality, good color, good shape, good layers. Order early, \$3 per 15 eggs. L. E. Hall, Bushton Kan.

PRIZE WINNING REDS, BOTH COMBS. Fine cockerels, cheap for quick sale. Eggs for hatching. Robert Steele, Route 7, To-peka, Kan.

S. C. BUFF ORPINGTONS (COOK strain). Eggs from special mated pens, \$2.50 per setting. Satisfaction guaranteed. Chas. Hauck, Box 409, Carthage, Mo.

SINGLE COMB WHITE ORPINGTONS— Eggs for sale; good layers; \$2.50 for 15. Also, a few cockerels. Clara Selfridge, Sterling, Kan.

"HAURY'S INVINCIBLE" WHITE ORP-ingtons. Stock and eggs for sale. Rea-sonable. Send for mating list. Dr. Arthur O. Haury, Newton, Kan.

FOR SALE—EGGS AND BABY CHICKS from the Kellerstrass Crystal White Orpington \$30 matings C. B. Owen, Lawrence, Kan.

EARLY BIRD BUFF ORPINGTON FARM.
Orpingtons that are buff; eggs that will
hatch. Send for mating list. Dr. W. I.
Griffiths, Ft. Scott, Kan.

PURE WHITE ORPINGTON COCKER-els. Eggs and baby chicks. Rose Hill Poul-try Yards. Rev. W. H. Tasker, Concordia, Kan.

EGGS FOR HATCHING—SINGLE COMB Buff Orpingtons, Toulouse geese, Indian Runner ducks. Mating list free. Peter A. Brehm, Harvard, Neb.

BUY BUFF ORPINGTON. EGGS THAT are guaranteeds to hatch. The risk is ours. Circulars free. Pennington's Poultry Farm, Box KF, Sta. B. Lincoln, Neb.

SINGLE COMB BUFF ORPINGTONS, Barred Rocks, Rhode Island Reds. Eggs, chicks. Prize winners. Satisfaction guar-anteed. Write. Joe Gibbons, Thayer, Mo.

S. C. BUFF ORPINGTON EGGS, FROM pens headed by prize winners, \$1.50, \$3, \$5 for 15. Birds strong in color, size, shape. Write for mating list. F. H. Church, Altoona, Kan.

BOSE COMB BEDS—YARD A, HEADED by Red Boy, son of Kansas City Boy, valued at \$500. Eggs, \$5 per 15. After April 1, \$3. Write for matings. Amy Bartlett, Lone-jack, Mo.

KELLERSTRASS STRAIN WHITE ORP-ington. Ideal U. L. quality, for laying, weight, beauty. Eggs: Top Notch, \$5 per 15; No. 2, 43, 15. Try the best. O. P. T. Ewell, Kiowa, Kan.

SINGLE COMB WHITE ORPINGTONS-Kellerstrass strain. The kind that lay, weigh, pay and win. Egg circular free. Harry Burgus, Route 15, Osceola, Iowa.

BUFF AND WHITE ORPINGTONS, Rose Comb Reds. My Buffs won more rib-bons at Newton show than all other com-petitors. Stock, eggs and baby chicks for sale. Roy Sanner, Newton, Kan.

BUFF OBPINGTON AND BARRED Rock eggs, from prize winning birds, \$1, \$2 and \$3 per setting of 15 eggs. All poor hatches replaced at half price. W. G. Safp, Bulleville, Kan., Secretary and Treasurer Republic County Poultry Association.

BUFF ORPINGTONS—COCKERELS AND pullets, from choicely bred layers. Good eyes, heads, combs. color. Scored. Prices reasonable. Mating list free. High-class Collie bitches, bred or open. Wickham Farm, Box 426, Anthony, Kan.

ROSE COMB REDS—COLUMBIAN Wyandottes. Winners and heavy layers. Won again 45 prizes at two shows this winter. Also, Golden Seabright Bantams and Indian Runner Ducks. Eggs, \$1 to \$5 per 15. Mating list free. A. D. Willems, Minneals Van neola, Kan.

FANCY BUFF ORPINGTON EGGS AND baby chicks. Cook strain, sired by three cockerels direct from Cook. Cost \$36; beauties. Stock, \$2 to \$20; eggs, \$2 to \$5 petting. Poor hatches replaced later free. Clara Colwell, Smith Center, Kan.



CRYSTAL WHITE ORPING-tons. All high scoring birds. Won 1 and 2 on cockerel, 1 on pen, and 1, 3, 4 and 5 on pullet, Chanute Show, January, 1912. Eggs, \$5 for 15, express prepaid. C. R. Hoyt, Earlton, Kan.



ORPINGTONS.

BUFF ORPINGTONS FOR SALE—Harry Cure, Atchison, Kan.

HELLERSTRASS WHITE ORPINGTONS of quality. Eggs, \$2.50, \$5.00 and \$10.00. E. Colby, Hillsboro, Ill.

SINGLE COMB BUFF ORPINGTONS. Fine stock. Good layers, Fifteen eggs, \$1.25; \$2.00 for 80. Circulars free. John Tuttle, Princeton, Mo.

BARRED ROCKS AND WHITE ORPING-tons—Rock Pullets, \$1 to \$2. Eggs, either variety, \$5 per 15. Maple Leaf Poultry Yards, Oswego, Kan.

FOR SALE—WHITE ORPINGTON COCKerels, Kellestrass and Cook strain. McKee Poultry Farm, 808 N. Main St., Hutchinson, Kan.

MARTIN'S IDEAL WHITE OBPING-tons. Eggs and baby chicks from very choice matings. Stock from the best blood lines in America. Eggs, \$12 per 100; baby chicks, \$25 per 100. Catalog. E. D. Martin, Box X12, Newton, Kan.

ORPINGTONS—CRYSTAL WHITE—From Kellerstrass' \$30.00 matings. Eggs at \$1.50 per 15, \$2.50 per 30, \$4.00 per 50, \$7.00 per 100. Guarantee 80% fertile or replace free. Shipped on date to suit buyer. Order from this ad or write for mating list. Stock for sale. L. C. Smith, Beaconsfield, Iowa.

FARRAR'S BUFF ORPINGTONS HAVE won at Kansas City, Des Molnes, St. Joseph and Topeka. I offer eggs from this high-class stock. Send for mating list and prices. I am a member of the National S. C. Buff Orpington Ciub, and life member of the American Poultry Association. H. F. Farrar, Axtell, Kan.

DAY'S FAMOUS S. C. BUFF ORPINGtons have won at Boston, Philadelphia, Chicago, Indianapolis, St. Louis, Kansas City,
Nashville, Cleveland, Cincinnati, A. Y. P.
Exposition, and many other national shows.
Eggs, \$2 to \$10 per 15; stock, \$2 to \$25
each. Nothing better at any price than eggs
from these good matings. Catalogs free.
All orders promptly filled. Dr. H. E. Day,
Dumont, Ia.

PLYMOUTH BOCKS.

BUFF ROCK BABY CHICKS AND EGGS -Mrs. Fred Miller, Wakefield, Kan

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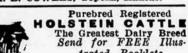
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BIG TYPE POLANDS.

Limestone Farm, Clarksdale, Mo., for big type Polands, Shropshire sheep. Twenty high-class, bred gilts, and 15 choice fall boars far sale, the big, mellow kind. Buff borpington and S. C. Brown Leghorn eggs, Chinese geese, Indian R. ducks, Prices right. M. Gottswiier, Clarksdale, Mo.

THE POLANDS THAT TAKE.

FOR SALE—At low prices, several of Toulon Prince's spring boars. Write me quick. L. E. KLEIN, Zeandale, Kan.

MADISON CREEK POLANDS.

Few tried sows bred to Big Bone Pete for June farrow. Also, fall boars and gilts stred by Big Bone Pete. Write your wants.

Riley, Kan.

W. Z. BAKER, LARGE TYPE POLAND CHINAS

A few choice boars, bred sows and gilts for sale, bred to King Hadley, John Ex. and John Long and. Prices right.
W. Z. BAKER, Rich Hill, Mo.

HAMPSHIRE HOGS.

100 HAMPSHIRE SOWS.

spring gilts, fall gilts and mature sows. Sired by sons of champions; some of them bred to a winner of the blue at the Ohio State Fair this year, the rest bred to sons of champions. Best of breeding and best of individuals, and priced right down to bedrock. Write us.

WOODLAWN FARM CO.,

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HILLWOOD STOCK FARM

High class Hampshires. Immune young pars for sale. Also fall pigs of both sexes.

J. Q. EDWARDS, Platte City, Mo.

HAMPSHIRE SWINE. Some fine spring boars and a fine lot of summer pigs, all registered stock. T. S. BURDICK, Route 3, Inman, Kansas.

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Guaranteed choice breeding stock of very fashionable lines. Either sex. Pigs, \$15; of breeding age, \$25; very extra choice, best quality, \$25. Registered. Crated f. c. b.

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DUROC SOWS AND GILTS

All sired by Helen's Wonder, S. D.'s Inventor and Crimson Model. Bred to Crimson Model, grandson old Crimson Wonder and Indian Chief by the champion Beauty's Model Top. They are good and priced right.

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GOLDEN RULE DUROC HERD; Dream-land Col., the best Col. boar in the west, in service, assisted by J. C.'s Defender, by the noted Defender; 100 choice spring pige for sale in pairs or trios not related; bed-rock prices. LEON CARTER, Asherville, Kan.

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Headed by G. C.'s Col. and F. E.'s Col.
Sows contain the blood of Ohio Chief and
Crimson Wonder. Stock always for sale.
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Up-to-date breeding, plenty of quality and good colors. Priced for quick sale.

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Young boars of serviceable age. Best blood lines. Bred sows and gilts, and fall pigs, either sex. SAMUEL DRYBREAD, Elk City, Kan.

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sale. Col. and Nebraska Wonder breedAlso choice fall boars and glits.
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100 DUROC JERSEY PIGS PRIVATELY.
Richly bred boars and gilts in pairs not related at prices to move them.
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THE ORIGINAL FAMILIES **MULE FOOT HOGS** SAFE-SOUND-CERTAIN Prices Reasonable, Write SULTAN STOCK FARM R. 7. BLOOMINGTON, IND.

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OHIO IMPROVED CHESTERS—100 choice spring and fall pigs. Can furnish pairs not related, best of breeding. Sired by Jackson Chief 2d. Ken Garnett 2d and Bode's Model. Priced right. W. H. LYNCH, Reading, Kan. Bey 36.

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Yes, "Stallion Price Cutter"—that's what they call me, and I am proud Yes, "Stallion Price Cutter"—that's what they call me, and I am proud of the title. I want to place one or more of my stallions or mares in every township, and I have 60 head now on hand and another importation to arrive this month, and I am going to slice prices on a grand scale. Will give you the best of terms and a cash guarantee. All my horses are registered in books approved by the government. I want you to look at other horses before coming, and then it is up to me to make good to you that I am selling them worth the money. Remember, I pay your expenses if you don't say my prices are right, considering quality. Write or come and see me and I will assure you a bargain. assure you a bargain.

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IMPORTER OF DRAFT HORSES Importation arrived September 10, 1911. I have selected them personally, and have the pick of Belgium and France's 2- and 3-year-olds. All were selected for good breeding, soundness, bone and individuality. All good colors and will make ton horses. Every horse absolutely guaranteed. Anyone looking for a first-class STALLION at very reasonable price should come and see them before having. Barree

price should come and see them before buying. Barns four blocks from Santa Fe Depot. EMPORIA, KANSAS

Alfred's Eleventh Duroc FIFTY HEAD, BY TOP COMMODORE, B. F.'S OHIO CHIEF AND ALFRED'S COL.

Thirty head of line bred Cols., bred to a line bred Ohio Chief boar.

This is a show offering, and immune for life by the double treatment. Send for catalog, and come to sale.

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LEE BROTHERS' PERCHERONS FOR SALE.

Imported and Home-bred Stallions and Mares, Blacks and Grays.

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From weanlings up. The kind that we sell such men as W. S. Corsa. Everyone a good one. Among them is the prize winner from France. She is the best mare in the United States today, barring none. Come or write. All we want is a chance to show them. The price is right. LEE BROS. Blue Ribbon Stock Farm, Harveyville, Kan.

Mammoth Twenty jacks from 14.3 to 16 hands high, all good, and including some of the best we ever had. The highest priced jack at public sale last year was from our herd, and also the famous champion Missouri Queen. Call or write, mentioning Kansas Farmer. DEIRLING & OTTO, Jacks Fore

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Imported — Percheron — Stallions

At the 1911 shows we won Championship on both Percheron and Shire Stallions, at a American Royal, the Inter-State and the Missouri State Fairs. All our horses are apported. We sell as low as anyone on earth, quality considered. Our guarantee and surance are the best known.

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Young registered stallions, from weanlings to 4-year-olds, outstanding in bone, size and quality. All registered in Percheron Society of America. Write for bargains.

On Main line of C. B. & Q. Railway, 60 miles east of St. Joseph.

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Dan Wilcox, Prop., Cameron, Mo. Herd headed by Frost's Buster 29745, assisted by Big Oak 27263. A sow herd that is made up of high-class producers. A number of choice fall boars and gitts for sale—the tops of 50 head of good ones. They will obe priced right. Will also sell my fine herd boar, Big Oak. Write for description and prices.

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Are "up-to-the-minute" and 10 years in advance. They are the "Drafty, big-boned type"—"Nifty big Black Boys"—the real "medal winners"—sensational "show and business horses" of note, "ripe peaches" from the "select 400." Big, classy "Peaches and Cream"—"Black Boys." The "Iams Brand" of drafty "top notchers." Iams' 1912 importation of Percheron and Belgian stallions and mares are in the "Pink of Condition" and ready for a "good selling." "Ikey, Boy," smile sweetly, and hundreds of Iams' satisfied customers "will sit up and take notice" that Iams, the "King Pin" horse importer, is still "doing business" at the "old stand." Iams is "pushing" his horses to the front. The big "Peaches and Cream" "Boys and Girls" are attractions that can't be overlooked. Iams mesmerises buyers with "real drafters," at "bargain prices," and having the "horses as advertised." Iams' "competitors" and "hammer knockers" are "boosting Iams" by their "knocks" until now he is known as the "Millionaire Horseman," and on "Easy Street," and growing fast. Ikey, "Come on along," and sing Iams' song. He is selling these "aristocratic," fancy "Black Boys" cheaper than ever—or better horses for less money—\$1,000 and \$1,400 (few little higher). Iams has

120 PERCHERON and BELGIAN STALLIONS and MARES 120

They are "Models"—"Humdingers." They are 2 to 5 years old, weigh 1,700 to 2,500 lbs., 80 per cent blacks, 50 per cent ton horses. All "approved and stamped" by European government. Registered in popular stud books of U. S. Many "prize winners" and "gold medal horses." Big, Drafty "top notchers," with big bone, quality, style, finish and action to burn. They are "Eye-openers"—larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "Buyer's hat." "Georgie, dear," Iams made a "big killing" by buying his horses in Europe in October 1911. "Dry weather," "bad crops," "close money" and "Iams" cash" caused the "prize winners" and "tops to be thrown on the market for a "good selling." Iams "cut the melon" and bought the "rippers" at "knockout prices." Iams will give his customers the benefit of his "good buy." "Ikey, boy," "come on down town"—get into

IAMS' "Get Rich Wagon" and Save \$1,000 on a "Top Stallion"

(and you wear the diamonds). Iams is a "big fly in the jelly" in the horse world. "He keeps the gang guessing." Iams sells "Imported horses only"—(They win 90% of prizes at big horse shows). No "American bred full bloods"—No "Auction stuff" or "Peddlers' horses"—only "choice drafters" of big size, bone, quality and finish. Iams imported horses are "approved"—"branded," "Inspected," and "Certificate stamped O. K." by governments of "France and U. S. A." Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D.," waltz me around once again "Ikey;" land me at Iams' box office and importing barns. Full to "the roof" with "Black boys" (and all must be sold). Reduced prices. All the world knows Iams and his "Peaches and Cream" horses. 1912 promises to be a bumper year to Iams and his customers. He saved \$300.000 to stallion buyers in 1911. Watch be a bumper year to Iams and his customers. He saved \$300,000 to stallion buyers in 1911. Watch "Iams' smoke" in 1912. Iams' 30 years of successful business makes him a safe man to do business with. Iams sells horses "on hanor." A boy or a lady can buy as cheap as a man.



IAMS' 1912 HORSE CATALOGUE IS AN "EYE-OPENER." IT HAS "A LAUGH" AND A \$1,000 BARGAIN IN EVERY LINE IAMS' 1912 HORSE CATALOGUE IS AN "EYE-OPENER." IT HAS "A LAUGH" AND A \$1,000 BARGAIN IN EVERY LINE.
"A bunch of gold" THE 'BOOK OF BOOKS" to stallion and mare buyers. It is full of "WIDE-AS-A-WAGON DRAFTERS"—the real "peaches and cream" stallions. It shows LARGEST IMPORTED stallions and mares in the United States, "TRUE TO LIFE," and TRUTHS, FACTS, "BUSINESS PROPOSITIONS," and 100 silustrations of "TOP-NOTCHERS" and the "TRICKS OF STALLION PEDDLERS" and "AUCTION BLOCK" SALESMEN. It is the finest, most elaborate, and original up-to-date horse book in the world. Iams, the "square deal" horseman, makes every statement in ad. or catalog good—or you get the \$500 he hangs up. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance. IAMS buys and sells every stallion himself. Saves buyers \$1,000 in middlemen's profits. He buys stallions by "trainload." He speaks the languages—(saving 20 per cent). He is not in the "Stallion Trust." No partners—to share profits. He "pays cash" for his horses—and sells "top notchers" by "hot advertising" and having "the goods." "Big Ikey," leave your "happy" home and buy a "top" stallion or pair of imported mares (of Iams) that bring colts that sell at \$500 each. "Papa," don't let those "auction men" "hand you a lemon" in one of those "so-called" "American full-bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." Then we will "all wear diamonds." Iams' "selling clothes" fit all buyers. "Write for Iams' million-dollar horse catalog. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half-million dollars." References—First National and Omaha National Banks, Omaha; Packers' National Bank, South Omaha; Citizens State, First State, and St. Paul State

Banks, St. Paul, Neb. Iams buys big ad. space because it is cheaper than flannelmouthed horse salesmen.

Shorthorn Cattle Dispersion Sale

At Hutchinson, Ks., Wednesday, March 27, 1912

SIXTY HEAD OF COWS AND HEIFERS, 20 CHOICE COWS WITH CALVES, BY VICTOR ARCHER, AND MOST OF THEM BRED BACK AGAIN; 15 CHOICE HEIFERS, ALL BRED TO EITHER VICTOR ARCHER OR PROTECTOR.



VICTOR ARCHER 264156

I am selling my two herd bulls, Victor Archer and Protector, and a number of young VICTOR ARCHER BULLS of SERVICEABLE AGE. On account of other business I am practically dispersing my entire herd, and am offering an exceptional lot of useful cattle, which will give farmers and breeders an opportunity to buy at a time when they are sure to go on and make them money. The leading attraction in this sale will be my valuable HERD BULL, VICTOR ARCHER, by ARCHER, dam ELDER LAWN VICTORIA. This sale will be largely a Victor Archer offering, including a number by Forest Knight, Gallant Knight's Heir, and Royal Archer. All of the calves are by Victor Archer. All of the cows and heifers with calf are bred to either Victor Archer, Protector, or Royal Archer.

Please write for catalogue, and arrange to attend my sale.

R. A. STEWART.

Hutchinson, Kansas

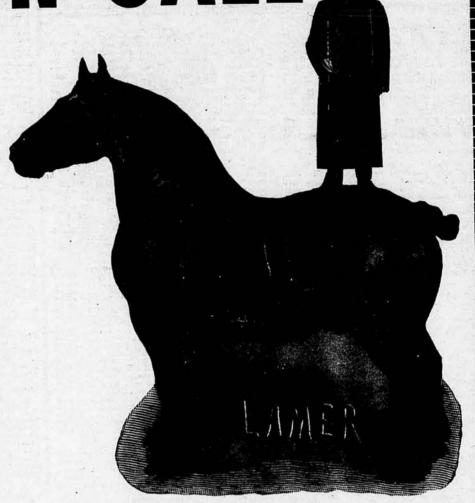
Auctioneers-R. L. Harriman, Lafe Burger. O. W. Devine will represent Kansas Farmer. Remember the date—WEDNESDAY, MARCH 27—Hutchinson, Kansas.

Salina, Kansas THURSDAY, MARCH 21, 19 will sell, at SALINA, KAN., THURSDAY, MARCH

21, 1912, 51 head of Imported and Home-grown, Registered Percheron and French Draft Mares and Stallions, consisting of eight stallions from 3 to 5 years old, two stallions coming 2 years old, six stallions coming 1 year old, 21 mares from 2 to 5 years old, one Belgian mare, seven fillies coming 1 year old, one Belgian stallion 3 years old, weight 2000 pounds, one French coach horse, one jack, three jennets.

The above stock is large and growthy, with plenty of conformation and weight. If you are in the market for a first-class stallion or mare, the kind to start the foundation for a family of horses, don't miss this sale. These horses are all thoroughly acclimated and ready for service. Several of these horses that will be sold on above named date were first prize winners at the American Royal at Kansas City, Topeka and Hutchinson State Fairs. One automobile. Sale in pavilion. No postponement on account of bad weather. Come one or two days before the sale and look this stock over. Sale starts at 12 o'clock noon, March 21. Write for catalog.

AUCTIONEER—DAN SAYER.



Salina, Kansas

TOO LATE TO CLASSIFY TOO LATE TO CLASSIFY

PIGS= SPRING

I am now booking orders for spring pigs, either sex, sired by Captain Hutch, King Hadley 2nd, Hutch, Jr., Mouw's Longfellow Price, Panorambler and A Wonder, out of Long King's Equal sows and sows of the best big type breeding, immense individuals in size and quality. Order early and get first choice. Pigs shipped at 3 months old. Nothing but first-class stuff shipped. Send for private sale catalog and prices. In buying at this age you save enormous express charges.

"THE HOME OF CAPTAIN HUTCH," C. W. JONES, SOLOMON, KAN.

FOR SALE—REGISTERED GUERNSEY buil calf. Henry's Ard Righ of Preel 19877. Also, a number of high-class Duroc Jersey gilts and boars. Prices reasonable, breeding considered. Address, S. D. HENRY, Ard Righ Stock Farm, Excelsior Springs, Mo.

YOUNG HOLSTEIN BULLS. Have sold all my females that I can spare.
Have a few young bulls sired by Prince
Ermsby De Kol, now at head of Nebraska
College herd. Prices reasonable.
J. P. MAST, Scranton, Kan.

HOLSTEINS FOR SALE.

Forty (40) head of heifers and cows; to freshen inside 30 days. Several cows heavy milkers; fresh now. Bulls from 1 to 15 months of age. Ira Romig, Station B. Topeka, Kan.

REGISTERED PERCHERON STAL-LIONS.
Six head, 3's and 4's, blacks and roans, and extra good individuals. Will be sold reasonable if sold soon.
G. S. HAMAKER, Pawnee City, Neb.

Young Holstein Bulls

Sired by Petertje Hengerveld Nannette and out of heavy producing dams, for sale. From young calves to yearlings. Won first at Topeka, Hutchinson and Oklahoma State fairs on young herd, 1911. Herd bull was junior champion.

W. C. JONES & SONS, Topeka, Kan.

Poland Chinas.

March 23—S. W. Alfred, Enid, Okla,
March 28—Herman Gronniger & Sons, Bendena, Kan.
April 20—Roy Johnston, South Mound, Han.
May 14—Nevius & Wedd, Johles, Kan.
May 15—Matt Alton, Eric, Kan.
Sept. 27—John T. Curry, Winchester, Kan.
Oct. 15—H. B. Walter, Effingham, Kan.
Oct. 16—H. C. Graner, Lancaster, Kan.
Oct. 17—M. T. Williams, Valley Falls, Kan. S. W. Alfred, Enid, Okla. —Herman Gronniger & Sons, Ben-

Duroc Jerseys. July 26 .- E. W. Davis & Co., Glenwood, Mo.

John Sparrowhawk, Wakefield, Han., has a Shorthorn bull for exchange.

Chapin's Durocs.

Grant Chapin, the old-time Duroc Jersey breeder of Green, Clay County, Kan., offers 25 bred sows and glits for quick sale, also fall pigs. Write him for prices, etc. The Chapin Durocs are rich in the blood of the Col. and Crimson Wonder families.

The great success attained by Gopher Death, now sold in 30 states and foreign countries, is because it is made of a delicate, palatable morsel that prairie dogs, pocket gophers and ground squirrels love like children love candy. They eat it and die. Booklet free. See advertisement in this issue. Fort Dodge Chemical Co., Ft. Dodge, Iowa.

It Taxes the Typewriter.

We would like to write an article on the Holstein for publication in Kansas Farmer, but the subject is too big and, besides, our literary ability is taxed in answering the letters of inquiry about Holsteins which come from our advertisement in Kansas Farmer.—S. W. COOKE & SON, Breeders of Holsteins, Maysville, Mo.

Volume 77 of the American Shorthorn herd book is just off the press. It contains pedigrees of bulls numbered 333,001 to 342,000 and females numbered 31,001 to to 92,000. This volume is sold to nonmembers at \$2.30, prepaid, or \$2 at the office of Secretary John W. Groves, Stock Yards Station, Chicago.

Larned, Kan., Nov. 6, 1905.

CURRIE WIND-MILL CO., Topeka, Kan.

Gentlemen—Please find enclosed draft for
the Wind-Mill ordered of you some time
ago. In regard to the Mill will say for
simplicity and power I think your Mill excels any of the market. I have three other
makes of mills.

J. J. NESBIT.
Superintendent of Larned Water Works.

Jerseys and Guernseys.

Oren S. Day, Box 64, Footville, Wis., is advertising some choice things in Jersey cattle in this issue of Kansas Farmer. Mr. Day is in close touch with the importing business and is in a position to fill orders for imported Jerseys or Guernseys. He has developed a business which should be appreciated by the farmers and dairymen of Kansas, many of whom would buy imported bulls if they were accessible and priced right. Guernseys are rather hard to get, and Mr. Day offers the chance at just the right time. Ask him for prices on bred helfers of either breed, or on a herd header.

Amegata' Showtherns.

Amcoats' Shorthorns.
S. B. Amcoats, the Shorthorn breeder of Clay Center, Kan., offers for sale the two-year-old pure Scotch tried sire Whirlwind. Whirlwind is a very large red bull and has already proved his value as a sire. He is in nice breeding form and will be priced reasonably. Anyone in need of a herd header should write Mr. Amcoats at once. Mr. Amcoats also has a choice lot of young bulls and some cows and helfers for sale. When writing kindly mention Kansas Farmer.

Henley Ranch Shropshires.

Henley Ranch, Greencastle, Mo., is offering some rare values in Shropshire ewes, mated to imported rams. They are offering 200 imported ewes and 500 American ewes. They are overstocked and will make prices to buyers wanting a number of ewes that will certainly interest parties wanting Shropshire breeding stock. The Henley Ranch flock is one of the largest in numbers and best in quality in the country, and when breeders purchase stock from this herd they always have the satisfaction of knowing they have the best that money will buy. Write for prices on ewes in lots. They will interest you.

J. C. Kerr & Co.'s Jack and Percheron Farm.
J. C. Kerr & Co., Wichita, Kan., have on hand at all times their barns full of good big and big-bone jacks from two to six years old. Their jacks are from 15 to 16 hands high, the kind that sires the sugar mules. Kerr & Company sold last week a good two-year-old jack to go to Riverside. Cal. This jack stood 15½ hands high and weighed 1,000 pounds, and will make a great jack, as he was bred right. Kerr & Company have a barn full of good Percherons, both stallions and mares, of all ages. They have some 2,000 and 2,250-pound stallions, the kind that sire the good big horses that are bringing the long prices in the market and are hard to get enough to sup-

ply the demand. Kerr & Company will be glad to show you their stock at any and all times. When you arrive at Wichita go to their office at 136 North Market Street and they will be glad to take you to their farm, near Wichita, Kan.

Perry O. Brown's Scotch Shorthorns.

Perry O. Brown's Scotch Shorthorns.

The card of Perry O. Brown of Lamoni, Iowa, commences in this issue of Kansas Farmer. Mr. Brown is one of Iowa's prominent young breeders, and owns one of the best Scotch Shorthorn herds in that state. The herd is headed by Lord Mutineer 279228, assisted by Crimson Lad, two Scotch bulls that are a credit to any herd. Lord Mutineer is a pure Scotch bull. He is a nephew of Whitehall Marshall, the grand champion Shorthorn bull of America. His dam was by imported Loraine out of the show cow Laurie. He is the true beef type, and is a breeder of great quality. Crimson Lad is a pure Scotch bull. He was sired by Crimson Scotch, a prize winner and a sire of prize winners. Mr. Brown's cow herd is composed of individuals of the best families of the breed. They are strictly a high-class lot and the herd is noted for its number of outstanding good individuals. At this time Mr. Brown is offering a number of choice bulls of serviceable age. Scme of them were sired by Royal Lavender, by Lavender's Best. Others by Mutineer. They are a fancy lot, the right kind for herd headers, and they will be priced right for quick sale. Write for description and prices. Mr. Brown guarantees description of stock and has a record for a long list of satisfied customers. Please mention Kansas Farmer when writing.

An "All Steel" Manure Spreader.

Farmer when writing.

An "All Steel" Manure Spreader.

The Chase Manufacturing Co., of Mason City, Iowa, has put out a manure spreader which is attracting much favorable attention from farmers all over the country. The Chase "All Steel" spreader is made of steel. No rotted sills, broken slats or warped sides. It can't rust and is practically an everlasting spreader. Since there is nothing to break, there is no expense for repairs and no delay during the busy season. It is built low down so as to be easily loaded, and so light of draft that two horses can easily draw it. The feed mechanism can be adjusted from the driver's seat anywhere from 3½ to 28 loads per acre. This prevents unnecessary distribution of manure, because when passing over a spot that does where from 3½ to 28 loads per acre. This prevents unnecessary distribution of manure, because when passing over a spot that does not require much fertilizer the feed can be shut down to the minimum. This not only saves manure, but it saves the labor of frequently reloading the spreader. Wheh the Chase "All Steel" is not being used as a spreader, the spreader mechanism can be removed and a wagon box put on the trucks. This enables one to get a full year's use out of it, instead of only a few weeks. This spreader is sent out under an absolute guarantee under 30 to 90 days' trial, and is sold at a very low direct from factory co-operative price. Anyone interested is advised to write for the handsome catalog which this company will send free. Address Chas. F. Chase, President Chase Manufacturing Co., Mason City, Iowa.

Important Shorthorn Sale.

On March 27, Dr. R. A. Stewart, of Hutchinson, Kan., will disperse a valuable herd of Shorthorn cattle. The herd bull, Victor Archer, will also be sold. In the females, an offering of singular usefulness, good milkers and thick fleshed ones of refined, breedy type, are presented, represent-

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan, Jesse R. Johnson...Clay Center, Kan, W. J. Cody.....Topeka, Kan,

PURE BRED STOCK SALES.
Percherons.
March 21—C. W. Lamer, Salina, Kan.

April 9-W. W. Andrews and C. D. and E. F. Caldwell, at Maryville, Mo.

Jacks and Jennets.

March 19—J. E. Clary & Sons, Sheridan, Mo.

April 20-F. J. Searle, Oskaloosa, Kan.

Jersey Cattle.
Jersey Cattle.
Jersey Cattle Breeders' Henry E. Wyatt,
Falls City, Neb., Manager.

pril 25—B. C. Settles, manager, Palmyra,
Mo. Sale at Hiawatha, Kan.

April 10—H. M. Hill, Lafontaine, and S. C. Hanna, Howard, Kan. Sale at Fredonia, Kan.

Aberdeen Angus Cattle.

April 30—American Aberdeen-Angus Breeders' Association sale at Omaha, Neb. Chas. Gray, secretary, Chicago.

Association sale at Chicago. Chas. Gray, Secretary, Chicago.

ing the most fashionable Scotch families. In this offering there will be several helfers of show form from dams that have produced show winners before. All the cows
and helfers of breeding age either have
calves at foot or are bred to drop calves
early in the spring. The passing of this
herd will offer to farmers and small breeders an opportunity to secure breeding cattie of an established type that would require years for a beginner to obtain. Readers of Kansas Farmers are asked to read
the half page advertisement and send for
a catalog and arrange to attend this sale.
Kindly mention Kansas Farmer when you
write.

Almost a Lifetime.

If one were to count the manufacturers who have been in business continuously for a generation they would be found comparatively few in number, and yet among them would be that old and woll known house, the Elkhart Carriage & Harness Manufacturing Company, of Elkhart, Ind., whose ad appears in this issue. This concern has been in business for 39 years, and during all that time has been selling direct to the consumer. Their line of vehicles and harness is larger than ever. Their new catalog presents the complete line, and a copy will be sent free to anyone who mentions this paper in writing. Address Elkhart Carriage & Harness Manufacturing Co., Elkhart, Ind.

Traction Engine Boeks.

Three new Avery catalogs have just reached us. One is on steam traction engines, one on a special farm tractor, and the other on another type of gas tractor engine. The line of Avery Yellow-Fellow threshing machines is also explained and well illustrated. These books are of the kind that really explain, and to everyone interested in power developing machines for farm uses, they are full of worth while information. Either one or all of these books will be sent free to everyone who will write to ask for them. Address Avery Co., Peoria, Ill., and kindly mention Kansas Farmer.

Snew Interfered.

The heavy snow storm, making almost impassable roads and delayed trains, resulted in a poor average at J. W. Wohlfort's sale, February 29. The offering was a good one and under more favorable conditions a good sale would have been made. The inquiry for catalogs was good and there was every reason to expect a big crowd. But with just enough crowd to justify the starting of the sale and not enough to make competition, the hogs sold far below their value. Among the principal buyers were E. R. Morgan, and W. H. Cummings, Blue Rapids; James A. Quinn, Hanover, and O. Miller, Waterville. Prices ranged from 29 to 348. However, the Wohlforts are not discouraged and will be before the public again next fall or winter with a good bunch.

with a good bunch.

Mule Feet Association.

At the recent annual meeting of the American Mule Foot Hog Record Association held in Columbus, Ohlo, John H. Dunlap, of Williamsport, Ohlo, was elected president; C. W. Burkett, of Newburg, N. Y., vice-president; and H. C. Moore, of Columbus, Ohlo, secretary. Applications for membership are coming in from all over the United States to the Association. The future seems very bright for this record association, whose management is composed of men of experience and ability. While this association is comparatively young, all members present were surprised to learn of the business done the past year, and of the business done the past year, and of the business done the past year, and of the balance in the treasury. There is a growing demand for these hogs, and the association expects to do some publicity advertising as well as to give information to the many inquirers. Mr. Moore, the secretary, was elected because a man was wanted who was not breeding these hogs, and who would be impartial in every way to the members. It was voted that the secretary make arrangements to have classes for these hogs this year at as many fairs as possible.

McCallech Closes Successful Season.

Col. James T. McCulloch, the successful live stock auctioneer of Clay Center, Kan., is just closing the most successful season of his career as a salesman of registered live stock. Colonel McCulloch has made a large number of the best sales held in the state during the past fall and winter. He has had good success in getting average prices, considering the fact that in many instances the demand was not the best, due to high priced feed and other drawbacks. Mr. McCulloch now takes rank among the noted auctioneers of America, and his services are in demand by some of the best breeders. He is on the job the year around, and makes an exhaustive study of every detail of the auction business, including general values of all kinds of live stock, individual merit, pedigree, etc. Colonel McCulloch is an orator of great ability and can interest an audience of farmers as well as any auctioneer now on the block. His style of delivery is pleasing, every statement carries with it conviction, and his hearers know his statements are true and that he has no desire to deceive anyone. His sincerity and honesty of purpose has thus made him thousands of friends and popularized his methods of handling his crowds. His sales are business meetings, and the language used is of the kind that elevates. Colonel McCulloch and his work are his best recommendations.

colonel McCailoch and his work are his best recommendations.

An Economical Fruit Tree Spray.

So much depends upon intelligent and systematic spraying, if the greatest possibilities of an orchard are to be realized, that orchardists are giving more and more attention to this important subject every year. It is now claimed by many who have been conducting experiments along these lines that it is just as important to spray fruit trees occasionally throughout the fall and winter, beginning just after the fruit is picked and again after the dead leaves fall, as during the blooming and budding period. In the opinion of many fruit growers the best and cheapest spray mixture is made by making a solution of Merry War Powdered Lye in the proportion of one can of the lye to about 15 gailons of water. This solution has sufficient strength to kill all pernicious insect life without the slightest injury to foliage or buds. When used during the winter months it is unusually effective in preventing and desiroying San Jose scale, which, as every fruit grower knows, occurs on any portion of a fruit tree forming a crusty, ash-colored coating. This Merry War Powdered Lye solution is equally as good for killing bugs and insects that infest the foliage of all plant life—shrubbery, vines, etc. It is an effective remedy, which, however, in the strength of solution here named, cannot do injury to the plant. Nearly every dealer carries Merry War Powdered Lye in stock for 10 cents per can.

The Medern Farm Horse Book.

In 1993 the Hart-Parr Company of Charles

The Medern Farm Horse Book. In 1903 the Hart-Parr Company of Charles City, Iowa, put out the first successful gaso-

line traction engine. It met with a hearty reception, and today Hart-Parr tractors can be found in nearly every section on the globe. The success of the Hart-Parr engine has brought into the field many other makes. This competition proves the userfulness of the modern farm tractor. As the longest experienced tractor builders, the Hart-Parr Company is in position to give information based on the widest experience. The new Hart-Parr book, just out, is one of intense interest to everyone who is interested in cheaper, better and easier farming. The book is free for the asking. A post card request to the company at the address given above will bring one of them by return mail.

Miller's Durocs Sell Well.

One of the best Duroc Jersey bred sow sales of the winter was that made by Mr. Robert T. Miller at Table Rock, Neb., on February 15. The offering was an outstanding good one and fully appreciated by the breeders present, and those from different states represented by mail bids. A number of the sows reached the \$100 mark. The top price paid was \$165 for gilt No. 1, a very choice individual sired by Mr. Miller's herd boar Royal Critic. The offering as a whole represented a very great variety of the richest breeding. Mr. Miller has been a good buyer since founding the herd, and will continue to buy and own nothing but tops. The average of the sale was \$46.56. Following is a list of sales at \$30 and above: 31—L. G. Putman, Tecumseh, Neb...
11—Frank Vertiska, Pawnee City, Neb.
14—Edw. Fuhrman, Oregon, Mo...
26—E. H. Gifford, Lewiston, Neb...
18—Lewis Blinde, Johnson, Neb...
18—Dom Mertese, Table Rock, Neb...
18—Dom Mertese, Table Rock, Neb...
18—Dom Mertese, Table Rock, Neb...
18—J. C. Heimer, Table Rock, Neb...
18—J. Fitermuta, Humboldt, Neb...
18—J. Fitermuta, Humboldt, Neb...
18—J. Fitermuta, Humboldt, Neb...
18—W. Sanduskey, Table Rock, Neb...
18—Charles Gabby, Tyler, Wash...
18—H. B. Minor, Guide Rock, Neb...
18—W. G. Carter, Table Rock, Neb...

25—J. C. Wilson, Bethany, Mo	14 10 8 7
1—John W. Sherwood, Dunavant, Kan. 2—J. C. Wilson 69—F. B. Plowman, Pattonsburg, Mo 70—W. G. Harris, Trenton, Mo 13—J. F. Meadows, Pattonsburg, Mo 15—Joe Childers, MoFall, Mo 14—W. H. Meadows, Pattonsburg, Mo	1721 677786
16—G. W. Williams, Jamison, Mo. 19—Charles Scott 37—J. H. Wofford, Pattonsburg, Mo. 52—G. W. Williams 63—A. G. Harris, Pattonsburg, Mo. 63—B. F. Newell, Pattonsburg, Mo. 6. W. Williams 57—Jasper Sweat, McFall, Mo.	7866666666
51—James Patten, McFall, Mo. 49—J. W. Ryan, Pattonsburg, Mo. 45—Roy Dickison, Pattonsburg, Mo. 61—J. F. Meadows 44—Oliver Glics, McFall, Mo. 46—H. Lee, Wattersburg, Mo. 59—Charles Scott, Jamesport, Mo. 30—Charles Cunningham, McFall, Mo.	10 87 87 9

42—Robert Ambrose, Pattonsburg, Mo.
40—G. A. Harris, Pattonsburg, Mo.
64—B. J. Rice, Pattonsburg, Mo.
48—Frank Sweany
35—M. A. Miller, Pattonsburg, Mo.
34—J. R. Patton
5—G. W. Williams
60—Frank Sweany
58—Lee Waters, Pattonsburg, Mo.
41—Frank Sweany
6—O. P. Meadows
31—A. G. Harris
47—W. O. Gaines, Jamison, Mo.

McKinnie Shorthorn Sale.

McKinnie Shorthorn Sale.

The C. E. McKinnie Shorthorn sale at Beloit, Kan., February 22 came off as advertised. In this sale 35 head were sold at an average of \$83. Mr. McKinnie sold 24 head at an average of \$83.75. L. M. Noff-singer, one of the consigners, sold eight head at an average of \$83.75. E. E. Creitz and J. W. Smith, both of Beloit, had consigned two head and received very satisfactory prices. Mr. Noffsinger is a prominent breeder of Osborne, the other gentlemen being well known breeders of Shorthorn cattle in Mitchell County. The bad condition of the roads was responsible for the average not being better. The offering was one of merit. Below is a list of the prominent buyers:

C. E. McKinnie's consignment:

1—Bull, J. W. Briney, Beloit, Kan... \$250.00

3—Bull, W. E. Hockett, Jewell City. 115.00

3—Cow and calf, W. A. Prewett,
Aserville, Kan... \$7.50

4—Cow and calf, I. K. Caughey,
Aserville, Kan... \$7.50

5—Cow, J. W. Ludwig, Beloit. 70.00

6—Cow, C. W. Ludwig, Beloit. 70.00

6—Cow, C. L. Brown, Beloit. 82.50

10—Cow and calf, J. W. Smith, Beloit 102.50

9—Cow, C. L. Brown, Beloit. 70.00

11—Cow, J. W. Smith, Beloit. 70.00

12—Cow, J. W. Smith, Beloit. 70.00

13—Cow, L. M. Frieder, Beloit. 70.00

14—Cow, J. W. Smith, Beloit. 70.00

15—Cow, J. W. Smith, Beloit. 70.00

16—Cow, J. W. Smith, Beloit. 70.00

17—Yearling heifer, C. L. Brown, Beloit. 70.00

18—Cow and calf, E. E. Fisher, Beloit. 97.50

19—Yearling heifer, J. W. Smith, Beloit. 97.50 20—Yearling heifer, W. J. Curtis, Beloit.
21—Yearling heifer, C. L. Brown, Beloit.
22—Yearling buil, E. E. Fisher, Beloit.
23—Yearling buil, E. E. Fisher, Beloit.
23—Yearling buil, J. A. Rankin, Beloit.
24—Yearling heifer, W. J. Curtis, Beloit.
24—Yearling heifer, W. J. Curtis, Beloit.
25—Buil, E. C. Tilton, Beloit.
26—Buil, J. S. Williams, Beloit.
27—Buil, J. S. Williams, Beloit.
28—Buil, J. F. Broadbent, Beloit.
29—Buil, J. F. Broadbent, Beloit.
29—Buil, Martin Childers, Beloit.
29—Smith, Beloit, bought by J. P. Harvey, Beloit.
31—Cow and by E. C. Creitz, Beloit, bought by J. H. Baker, Beloit, bought by J. H. Baker, Beloit.
35—Cow, owned by E. C. Creits, Beloit, bought by C. L. Brown, Beloit.
35—Cow, owned by E. C. Creits, Beloit, bought by C. L. Brown, Beloit.
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35—Cow, owned by E. C. Creits, Beloit, bought by C. L. Brown, Beloit.
36.00 20-Yearling helfer, W. J. Curtis, Be-

J. W. Pfander & Sons' Sale Averages \$38.

Annan. Hemphill, Fontanelle, Iowa.... Hemphili Foataneile, Iowa.
Hemphili Banks, Montuer, Iowa.
Watt, Ureen City, Mo.
White, Glenwood, Iowa.
Hussey, Shenandoah, Iowa. M. C. White, Glenwood, Iowa.
Prof. Hussey, Shenandoah, Iowa.
Lewis Annan.
Duer & Son, Kahoka, Mo.
L. R. Kershaw, Muskogee, Okla.
W. G. Corwia, Essex, Iowa.
O. J. McCullough, Clarks, Neb.
W. B. Happy & Son, Stella, Neb.
Frank Pfander, Clarinda, Iowa.
C. R. Miller, Atchison, Kan.
H. Fesenmeyer, Clarinda, Iowa.
F. S. Whittman, Stewart, Iowa.
Matt Classen, Nebraska.
H. Eesenmeyer, Clarinda, Iowa.
W. Corwin.
B. Wisler & Son, Litchfield, Neb.
R. M. Scribner, Rosendale, Wis.
J. E. Coney, Lyon, Neb.
J. P. Mooney, Rulo, Neb.
J. P. Mooney, Rulo, Neb.
J. P. Mooney, Rulo, Neb.
Charles H. Schram, Newcastle, Neb.
W. G. White, Glenwood, Iowa.
Lewis Annan.
J. O. James, Braddyville, Iowa.
Wilbur B. Wallace, Bunceton, Mo.
Elijah Story, Kewanee, Ill.
L. R. Kershaw
Bert Harriman, Pilot Grove, Mo.

Big Orange Offering Averages \$85 at Night Sale.

L. R. McLarnon's sale of big-type Poland sows and glits bred to the famous boar Big Orange was an attraction that caused breeders to attend a night sale at Braddyville, Iowa, on the night of February 28, after the sale had been postponed on February 27 on account of the great snow blockade that tied up railroad traffic and made it impossible for breeders to be present on the 27th. A special train was chartered and immediately after the close of Pfander &

TOBACCO goes right ahead, pleasing all who 4 smoke it. 10c.

This Great Riffe is over 30 inches in length. The barrel is bronze, 16 inches long and finely rified. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots as caliber long or short sartridges.
This is one of the finest rifles made.
I want you to have one. All I ask is a
little easy work. Write today and I will
tell rou about the gun and how to get it. A. B. Piper, 184 Popular Bldg. Des Molues, Iowa-

Sons' sale at Clarinda, on the 18th, the run was made to Braddyville, where arrangements had been made to light the sale tent and hold a night sale, and when Col. H. S. Duncan rapped for order practically every breeder that had attended the Pfander & Sons' sale was present, and in a few minutes the snapplest sale of the season was under way in a well lighted tent, with the crowd apparently enjoying the novelty of a sale by lamplight. The entire offering was closed out in a remarkably short time at an average of \$85. The top of the sale went to N. I. Staples of Burlington Junction, Mo., at \$275, and as in the sale of Pfander & Sons held the same afternoon, Missouri breeders captured a large per cent of the offering. The following is a list of buyers:

of the offering. The following is a list of buyers:

N. I. Staples, Burlington Junction,
Mo. \$55.00
R. W. Lawson, Fairfield, Iowa. \$60.00
A. J. Bank, Monlaws, Iowa. 660.00
N. I. Staples 130.00
Frank Hitchcock, Tervols, Ill. 72.50
W. M. Hubbard, Wabash, Ind. 87.60
H. Dalry, Tampa, Idaho. 65.00
J. Banks. 57.50
O. B. Holton, Braddyville, Iowa. 42.50
O. B. Holton, Braddyville, Iowa. 52.50
C. D. Terran, Braddyville, Iowa. 52.50
W. Watts, Green City, Mo. 77.50
R. L. Kershaw, Muskogee, Okla. 65.00
A. J. Bank 60.00 C. D. Terran, Braddyville, Iowa. 52.50
W. Watts, Green City, Mo. 77.50
R. L. Kershaw, Muskoge, Okla. 65.00
A. J. Bank 60.00
W. Watts, Green City, Mo. 65.00
John Glidow & Sons, Jamesport, Mo. 60.00
Pete Oswell, Wisner, Neb. 65.00
Grant Jones, Dains City, Iowa 55.00
Weaver Bros., West Point, Ind. 55.00
Grant Jones 40.00
J. E. Cooney, Lyons, Neb 40.00
J. E. Cooney, Lyons, Neb 40.00
J. E. Cooney, Lyons, Neb 10.00
J. Gregg, Harrisonville, Mo. 120.00
F. S. Whittum, Stewart, Iowa 135.00
J. C. Dunn, Dalton, Neb. 175.00
W. B. Wallace, Bunceton, Mo. 127.50
S. S. Russell & Sons, Illinois 35.00
D. M. Gregg 77.50
Bert Harriman, Pilot Grove, Mo. 80.00
J. L. Gutchell, Sheffield, Ill. 70.00
W. B. Wallace, Bunceton, Mo. 137.50
Frank Owens, Council Bluffs, Iowa 102.50
L. R. Kershaw, Muskogee, Okla 115.00
Bert Harriman. 72.50
N. L. Staples 275.00
Moore & Son, Genoa, Neb. 72.50
Mensees Jack Sale.

Monsees' Jack Sale.

R

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March 16, 1912.

12—Romance, 2 years, W. L. Snapp,
Harrison, Ark.

13—Crown Prince 2d, 5 years, W. P.
Hopper, Quinton, Okla.

15—Berry, Quinton, Okla.

16—Missouri King, 5 years, D. J.

16—Missouri King, 5 years, D. J.

17—Harvester, 3 years, L. W. Hoyt,
Barry, Ill.

18—Calir's Paymaster, 3 years, J. G.
Callison, Leeton, Mo.

19—Harlan's Choice, 2 years, W. F.

20—Harlan's Choice, 2 years, W. F.

21—Constitution, 3 years, Antone Kemmer, Lynn, Mo.

22—Jefferson Mammoth, 2 years, Fred
Eckerle, Pilot Grove, Mo.

23—Barnes' Jumbo, 4 years, A. C.
Finn, Salem, Ill.

38—Odd Fellow, 5 years, John Martin,
Clinton, Mo.

49—Odark Mammoth, 4 years, R. H.

Garret, Caihany, Mo.

41—Gold Digger, 3 years, S. C. Van
Meter, Elkhart, Ill.

42—General Mc., 3 years, L. W. Hoyt.

43—Chief B., 6 years, I. N. Elkins,
Venna, Ill.

44—Col. Ellis, 1 year, Bradley Bros.,
Warrensburg, Mo.

Jack Colts—

24—DeWolf Hopper, 1 year, W. F.
Schade.

25—English Boy, 1 year, Snyder Bros.,
Brownington, Mo.

26—High Life, 1 year, D. J. Hutchins.

27—Col. Neitzerd, 1 year, D. J. Hutchins.

28—Governor, 1 year, D. J. Hutchins.

28—Governor, 1 year, D. J. Hutchins.

28—Governor, 1 year, D. J. Hutchins. 26—High Life, 1 year, D. J. Hutchins.
27—Col. Neitzerd, 1 year, D. J. Hutchins.
28—Governor, 1 year, D. J. Hutchins.
29—Royal Prince, 1 year, A. C. Finn.
30—Captain Daily, 1 year, J. J. Devine,
Deerfield, Mo.
31—Ace 3d, 1 year, W. L. Snapp.
32—Mindota Boy, 1 year, D. J. Hutchins.
33—Carnegy, 1 year, D. J. Hutchins.
34—Sandy, 1 year, A. S. Wright, Wellington, Kan.
35—General Putman, 8 months, Bradley Bros.
36—Paul Hayes, 1 year, D. J. Hutchins
37—Inspector, 8 months, D. J. Hutchins.
Jennets—
2—Queen of Greatland. 7 years. W. jonetis—
2—Queen of Greatland, 7 years, W.
H. Brown, Clarksville, Mo.
3—Glbson Girl, 7 years, T. E. Collins, Belvue, Kan.
4—Minnie Scott, 5 years, J. A. Draper, El Dorado, Kan.
5—Bessie Burns, 3 years, F. A. Bauer, Watertown, Minn.
6—Belle McCord, 6 years, I. N. Elkins.
7—Fairview Belle, 9 years, W. F. Schade, Jackson, Mo.
8—Spot, 5 years, T. E. Collins.
10—Clarmont Belle 2d, 8 years, T. E. Collins.
11—Clarmont Belle 3d, 4 years, W. F. Schade.
12—Lady Marcus, 6 years, F. A. Bauer, Elkins.
14—Lady Hawk, 5 years, I. N. Elkins.
15—Miss Boyle, 10 years, W. L. Snapp
16—Miss Daley, 1 year, I. N. Elkins.
17—Lady Huff 2d, 1 year, L. W. Hoyt.
18—Lady Demand 2d, 1 year, D. J. Hutchins.
19—Lady Byron, 7 years, D. J. Hutchins.
21—Lady Davidson, 4 years, W. V. 85 20—Lady Byron, 7 years, D. J. Hutchlns.
21—Lady Davidson 3d, 3 years, W. V.
McClure.

22—Lady Davidson 4th, 2 years, L. M.
Beanland, Versailles, Mo.
23—Lady Davidson 2d, 3 years, W. V.
McClure.

24—Lady Byron 2d, 5 years, H. T.
Shaw, Summer Hill, Ill.
25—Lady Byron 3d, 3 years, J. Z.
Royer, Rockford, Ill.
26—Lady Byron 4th, 2 years, H. T.
Shaw.
27—Lady Byron 5th, 1 year, T. E. Col-27—Lady Byron 5th, 1 year, T. E. Collins. Lady Byron 6th, 1 year, H. T.

28—Lady Byron 6th, 1 year, H. T.

Shaw.

Summary—

5 jacks. \$24,165, average \$805.50

6,790, average \$452.66

44 jacks. \$0,955, average \$87.90

25 jennets. \$5,590, average 215.00

70 head. \$36,545, average 522.00

nets; also, an automobile. When writing Mr. Lamer about this sale, mention Kansas Farmer.

Jones Brothers' Hereford Dispersion.

The Jones Brothers' Hereford dispersion sale, postponed from February 27 and 28 to March 7 and 8, should be recorded as the best cattle sale ever held in Kansas, considering the obstacles which had to be overcome. But few breeders would have had the courage to trust such a valuable offering to the mercles of a mere handful of buyers. Almost impassable wagon roads and delayed trains, together with the young blizzard of the second day, kept hundreds of farmers and breeders away from Council Grove, Kan. But confidence, good cattle, the knowledge on the part of the buyers that they were being treated squarely and the splendid courage of the Jones Brothers turned what promised to be a failure into a good sale. Although the cattle undoubtedly sold for several thousand dollars below their value, Jones Brothers expressed themselves as well pleased with the results.

sults.	do west			
No.		mary.	Aver	age.
No. 23 bulls br 144 females 167 head so Following with buyer	brought, \$3, brought old for \$2: is a list is name	890.50 \$17,248 1,138.50 of repres- ind addre	entative s	9.03 9.78 7.12 ales,
No.		uno.	P	rice.
1.—R. A. 2.—Canae 3.—H. F. 4.—R. A. 5.—Carl 6.—Georg Kan. 8.—H. F.	Morley, Cattle Ziebell, F Morley Miller, Bore Lundst	livet, Kar Co., Old M Ierington, livue, Kar rom, Lin	fexico. 44 Kan. 21 dsborg,	5.00 5.00 5.00 65.00 60.00
9.—D. E. 10.—J. G. 12.—Carl 13.—Wm. 16.—C. C. 14.—C. C.	Oberg, Si Miller Henn, Ka Peterson, Thomas,	nsas City Scranton, Dunlap.	Kan 1	80.00 40.00 00.00 75.00 40.00
b.—Cari 6.—Georg Kan. 8.—H. F. 9.—D. E. 10.—J. G. 12.—Carl 13.—Wm. 16.—C. C. 17.—R. F. 15.—Nelso 20.—John 18.—B. K. 22.—W.	owles, Wa on Bros., I Lamb, D Williams Williams,	kefield, F Keats, Ka Inlap, Ka Wakefie Council	ld, Kan 1 Grove,	40.00 80.00 40.00
33.—H. R 34.—Dr. V	Bittenbe Welch, Em	nder, Dun poria, Ka males.	iap 1 n 3	80.00 00.00 00.00
39.—J. T. 40.—R. H. 43.—B. K. 45.—J. T. 47.—R. F. 48.—J. T. 51.—Carl 52.—Geor 57.—Jam 62.—F. E. 63.—R. A. 64.—Perr 65.—J. T. 69.—Carl 71.—F. E.	Welch, Em Stark, Em Stark, Em Gulick, J. Hazlett, William Gulick. Lumly, Gulick. Hilledel, Morley Fros, Gulick. Gulick. Gulick. Gulick. Gulick.	asper, Mc El Dorad s, Wakef Emporia. rom Kelso, Ks Cherokee, Alta Vista	o, Kan. 1 ield. 2 ield. 2 in Ckia. 1 Kan. Kan.	40.00 05.00 90.00 45.00 60.00 30.00 40.00 52.50 67.50 22.50 80.00 80
75.—C. C. C. T.	Pritz, Lin. Chiedel. Effland, Thomas Morley. Black, I. R. Lumley Roendt, Miller. Gullck. Willian Thomas Roendt D. Thomas	acygne, E Lincolnvi	ile	145.00 170.00 150.00 150.00 150.00 142.50 150.00 162.50 182.50
Lan	R. Goodn h Bicker, i Effman. K. Willian rles Pritz E. Balley, A. Morley	TAT TAT IN	to City.	165.00 102.50 105.00 122.50 150.00 152.50
139.—Nel: 150.—Geo	s Anderso rge Lunds l Miller n Woods, n Woods M. Dobs	walton,	Kan	150.00 150.00 150.00 245.00 150.00 340.00
187.—Geo 190.—R.	rge Lund M. Dobso	strom	endence,	112.50 130.00
		to Oblah	an Book	1.4

Get Johnson's Chicken Book.

Spring time coming right along now when the early starting poultry raisers are getting busy with their chicken plans makes M. M. Johnson's "Old Trusty" Incubator book most interesting and valuable to get right now. By writing a postal to Johnson the reader gets this book free by return mail and learns the best facts to know from the successful experiences of over 325,000 regular poultry raising customers of Johnson who use Old Trusty Incubators and Brooders. The book is over 200 pages and hundreds of actual photographs help tell the practical facts you should know. Johnson leaves it to you and no obligations whether you decide to take a 30 to 90 day trial of an Old Trusty or not. He pays the freight, east of the Rockies, and that far if you live beyond. He makes Old Trusties on a profit of les sthan 70 cents, at a price to you, delivered complete ready to hatch with less than \$10 anywhere you happen to, live. Write to Johnson with a pencil on anything at all—a postal will do as well as anything—and he'll send the book. Say that you read this here if you want to. No matter who you are, it's all the same. Johnson likes to let his old friends tell strangers about Old Trusty's work. He'd rather you'd consider what others have to say than to tell you himself. His book does both. Address, M. Johnson, Incubator Man, Clay Center, Neb. That's enough. You'll get the book quick—and like it fine. Get Johnson's Chicken Book.

A Belated Sale Report.

A Belated Sale Report.

Owing to an error, one of the best Duroc Jersey sales of the early winter failed to be reported in Kansas Farmer. Mr. R. P. Wells, of Formoso, Kan., one of the very successful breeders of the state, held his second annual sale at his farm during the latter part of January, and while the prices were not big, considering the early date and the saving of feed, etc., Mr. Wells did mighty well. The entire offering averaged almost \$30 per head. Mr. Wells received many congratulations on sale day from older breeders upon the excellent quality of the offering and the nice condition they were in from the standpoint of doing the purchaser good. Among the heaviest buyers were Ward Brothers, Republic, Kan.; A. T. Cross, Guide Rock, Neb.; Will Frye, John Clark, George Nelson and a lot of other prosperous farmers and breeders, mostly residents of Jewell County.

Albright's Polled Durhams. C. M. Albright, breeder of Polled Durham cattle at Overbrook, Kan., writes: "I have written some of the best breeders and have gotten their measurements and prices on their bulls, and I can beat them in every way compared. From \$50 to \$75 cheaper and sure dehorners."

Roses Ready to Bloom

Six Hardy Rose Bushes FREE to KANSAS FARMER Readers



Nearly everybody loves flowers. The rose is the queen of all the flower kingdom. A garden of well-kept roses attracts the attention of every passer-by.

We have just made arrangements with the largest grower of rose bushes in the world, which enables us to furnish to our readers a collection of six of the newest and most beautiful varieties grown. These are large, sturdy plants, grown and selected with great care, and noted for vigorous, rapid growth, fragrance and beauty of flower. They will thrive in almost any soil or situation; bloom every month of the growing season.

Careful attention is given to the packing and shipping, and every collection is guaranteed to reach you in good condition, together with complete directions for planting and caring for same.

"It is everybody's business in this old world of ours To dig up all the weeds we can, and make room for the flowers, So that every little garden, no matter where it lies, May look like one that God made, and called it Paradise.''

NAMES AND DESCRIPTION OF THE ROSES.

BLACK ROSE (Black).

BLACK ROSE (Black).

The production of a rose of this rare color has long been sought after and the rose-loving public is to be congratulated upon its introduction. It marks the highest attainment of the hybridizer's skill, and for grace form and magnificent color it is supreme in its chaste beauty. The plant grows shapely and vigorously, covering itself with a coat of elegant foliage, which is absolutely immune to black spot and mildew. The color and texture are the most wonderful ever seen in a rose, each petal appearing as though cut from the heaviest rich velvet, shading from deepest maroon-red to blackish crimson. It blooms constantly in great successive crops of large, double flowers, which possess a delightful fragrance.

WHITE KILLARNEY (White).

WHITE KILLARNEY (White).

The pure white "Irish Beauty" everyone is raving over, and it well deserves all the admiration and praise given. An exceptionally healthy, vigorous grower, with thick, glossy foliage, which is almost immune to attacks of disease and insects. It is a very free producer of enormous crops of elegant long pointed buds, opening into large globular snow-white flowers, the petals of a texture that makes it one of the most lasting of roses. The fragrance is delicious, having distinctive characteristics only adding to the charm of the flower.

COQUETTE DE LYON (Yellow).

No rose will give better satisfaction than this variety, filling a long-felt want in gardens where pure yellow roses are desired. In growth it is hardy as an oak, very vigorous, throwing long, stiff shoots direct from the roots soon after planting and quickly forming a symmetrical bush, covered with beautiful, clean-cut foliage of a rich bronzy green. As a liberal and continuous bloomer this rose has but few equals, and for size of flower, fragrance and beauty of form, is not excelled by any other of its color. Large, elegant buds which develop into superb double flowers of a pure rich yellow are produced in unbroken continuity.

MY MARYLAND (Pink).

MY MARYLAND (Pink).

A rare combination of a poetic name and exquisite beauty has made this new variety a dangerous rival of all the most famous pink beauties. A great outdoor rose of extreme hardiness, rapidly producing a sturdy, shapely plant, which in itself is a distinct ornament to any garden. The rich green foliage is not the least of its charms, clothing the long, stiff stems with cool verdant beauty. All summer through the large, perfectly-double magnificent flowers are borne, flowers of indescribable charm, composed of thick, heavy petals, unsurpassed in elegance of form. As they expand their beauty seems to be enhanced, the brilliant lively shade of pink deepening until it fairly glows with its warm rich color and delightful fragrance.

HELEN GOULD (Red).

This is the most valuable and satisfactory red rose for general planting ever introduced, and no garden collection would be complete without it. In habit of growth it is vigorous and robust, throwing long, strong shoots from the roots, which are clothed with clean, heavy follage, making an excellent setting for the fragrant, beautiful flowers. Great masses of splendid, rich, velvety roses are produced all through the summer, impressing everyone with their superiority and great beauty. The buds are of unusual size and exquisitely shaded, the petals of which are smooth and satiny.

DOROTHY PERKINS (Pink).

DOROTHY PERKINS (Pink).

This rose is a most valuable addition to the list of hardy climbing varieties, and without question one which should be extensively planted. It is perfectly hardy, standing severe winters unprotected, and without an exception is the most rapid, vigorous grower of all climbing roses. The beauty of the foliage produced by this rose is deserving of special mention, and is one of its valuable and charming assets. The leaves are thickly and evenly distributed over all branches from the ground to tips. In habit of bloom it is extremely liberal, producing flowers in immense clusters, each rose being perfect in form and of good size. The color is an exquisite shade of clear shell pink, deepening to a darker shade near the contribution.

OUR BIG OFFER.

The collection of six rose bushes described above will be shipped prepaid to any reader of KANSAS FARMER sending us \$1.00 for a year's subscription to KANSAS FARMER (new or renewal), and 15 cents extra to cover cost of shipping. No letter necessary. Fill in the coupon below and mail today. Roses will be sent to you at the proper time for planting in your territory. Address your envelope plainly,

KANSAS FARMER, Topeka, Kansas

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