

KANSAS FARMER

For the improvement



of the Farm and Home

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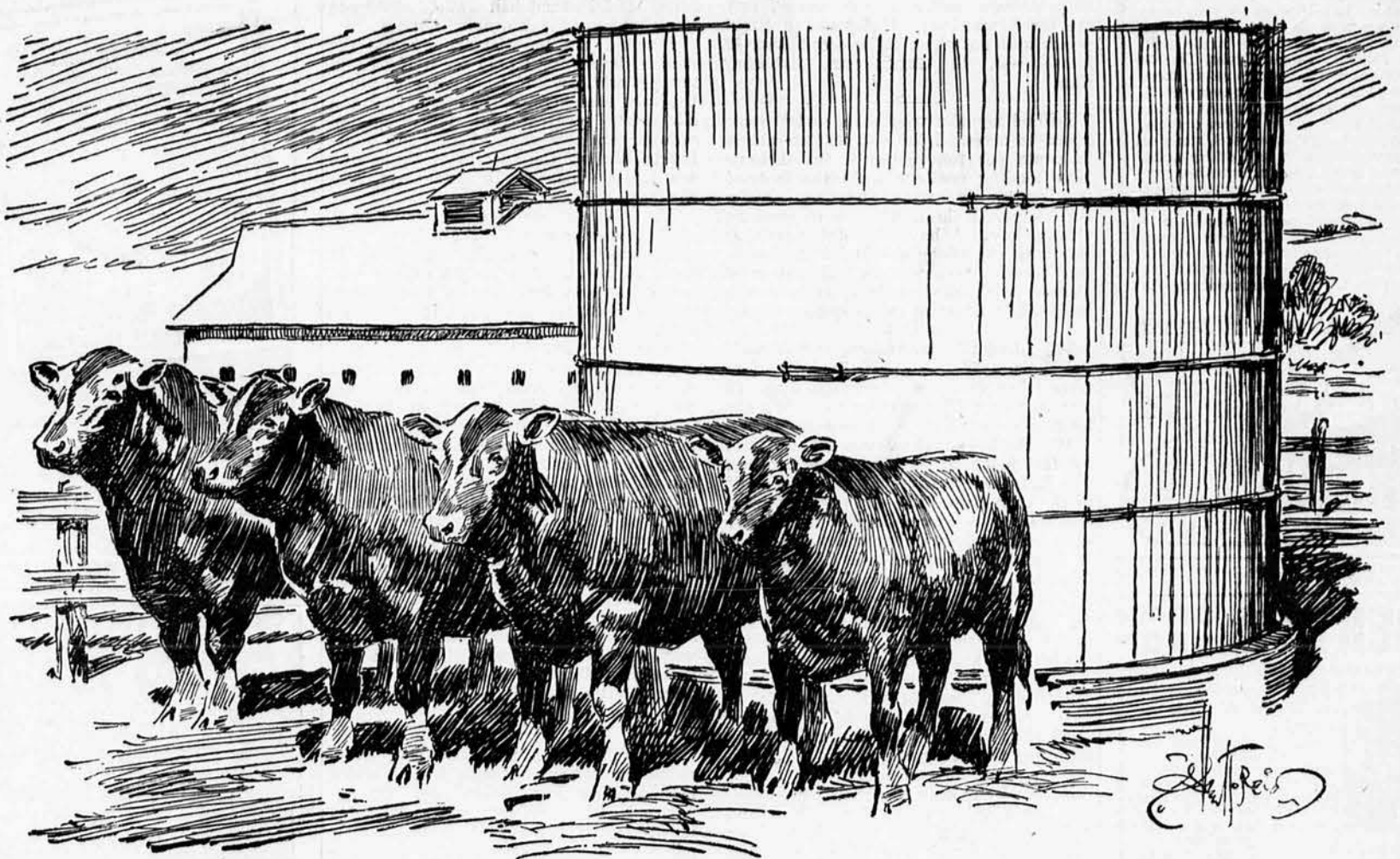
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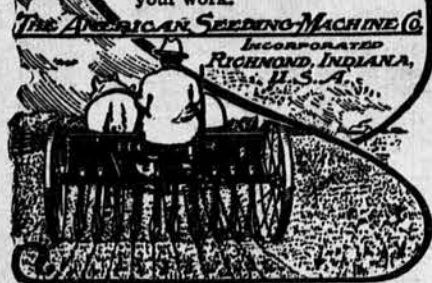
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SILO EXPERIENCE

GAINED AND CONTRIBUTED BY KANSAS FARMER READERS

In answer to Kansas Farmer's general invitation to silo users that they contribute their experiences in growing, filling and feeding silage, the following have been selected and are here printed with the view to covering the entire range of silo usefulness. Hundreds of good letters were received, but all could not be printed. I thank Kansas Farmer readers for their hearty response. I am sure these experiences have more value than anything I could write.—Editor.

I put about 12 acres in my silo. I am feeding it to my cattle, hogs and horses. I figure the cost at about 60 cents per ton for filling. Everybody is short on feed in my neighborhood except we boys who put up silos.—T. F. MARTIN, Effingham, Kan.

I filled my silo with corn, and it took a good many acres to fill it, because the corn was very light. I am now almost 70 years old, and I have fed cattle almost all my life, and I believe that silage is the best and cheapest feed that can be had. My cattle are doing better than ever before.—ROBINSON PAUL, Newton, Kan.

I filled my silo with corn and put in about 35 acres. I figure the cost nearly \$1 per ton. I am feeding it to milch cows and calves. The silo helps me in saving my winter feed, as I would have had to cut at least 100 acres of corn to produce the same results. I figure the silo has cheapened the cost of butter at least one-half.—FRED C. DEMOTT, Arkansas City, Kan.

I filled my silo with corn and Kafir, and put in about 20 acres. I figure the cost of filling about \$1.42. As the corn was very light, I figure that we can fill it for much less money next year. We are feeding cattle, hogs and horses, and we believe there is nothing better. The silo helps very much in saving the winter feed. My neighbor sold at public sale 115 tons of silage for \$700.—MILES STANDISH, Garnett, Kan.

I am feeding a mixed bunch of cattle, and they are doing fine. I don't see how I ever got along without a silo. I filled silo with corn. I put in 11 acres. It cost me \$36 for help and \$9 for an engine. I feed silage to everything: horses, hogs, cattle and chickens, and the hired man says if he had a little cream and sugar on it he would eat it himself.—J. E. GREENFIELD, Sabetha, Kan.

I filled my silo with corn, and it took about 18 acres. I think it cost me about 75 cents per ton to put it in. I have been feeding ensilage since the last of October to my cattle, and they are in fine shape. I think silage is as good as alfalfa hay. I have not fed anything else with the silage except let the cattle run to the straw stack. I am well pleased with the ensilage as a cattle feed.—E. P. FLANAGAN, Chapman, Kan.

We filled silo with corn, and it took 30 acres. We can fill it with less acres when there is an average crop. It cost us about 85 cents per ton. We are feeding it to milch cows and horses.

We think enough of one silo so that we feel justified in putting up another. We feel that it saves at least one-half of the corn crop. The silo saves at least one-half of the work in feeding, as one man will feed twice as many cattle as in any other manner.—G. J. MAELZER, Centralia, Kan.

I am still short on feed, but if I had not put in this silo, don't see how I would have made out at all. As it is I am feeding for less money than any man can possibly feed for without a silo. I feed silage to everything in the way of stock that I have on the farm. The cows show me that they appreciate it by giving an extra flow of milk. My horses, mules and chickens show their appreciation by staying in good condition and eating less grain than they do without the silage. I put corn in my silo, and I figure it cost me \$2.70 per ton, counting rent on my land and every expense.—COLEMAN J. WARD, Thackerville, Okla.

I filled silo with corn and Kafir. It took 30 acres to fill 200-ton silo. The cost of filling was about 65 cents per ton. I am feeding all kinds of stock. The silo is saving me lots of feed. I would not have feed enough to half feed the number of cattle without the silo.

I am feeding Kafir corn silage. The cattle like it fine and do well. They

get silage and wheat straw only, as I have to save my hay for horses during my spring work. My corn silage is in the bottom and I have not gotten to it yet, but the Kafir silage is turning out so good that I think I will fill my silo with Kafir corn only next year. I filled silo in 7½ hours.—FRANK S. SMERCHER, Garnett, Kan.

Our corn was injured by hail and dry weather. It would have made about 10 bushels per acre. I put in 20 acres and it cost me about 75 cents per ton to fill silo.

I am feeding horses, colts, milch cows and stock cattle. I like the feed fine. I bought the silo because I did not have enough feed to winter my stock, but with the silo I can winter my stock without buying feed, and I believe it saves one-half of the feed bill. Mine is the only silo within 11 miles. I had never seen a silo until I bought this one. I was afraid to tackle it, but I had to get more feed in sight or sell some of my stock, so I bought the silo and kept my stock, and now I will have plenty of feed. Some think it is a big job to erect a silo. I commenced at 7 a. m. and at 2 p. m. had staves all up, top and bottom hoops on, without a scaffold.—R. W. MARCY, Axtell, Kan.

My silo was filled with corn. I put about six acres in. Can not say as to expense of filling, as that would be more than it would be if we had done the work before. This was my first experience with putting corn in silo, and I did not know anything about it except by reading.

I am feeding all kinds of stock on silage, from horses to chickens, and all seem to relish it. The horses do not relish it as much as the cows. Silage can not be beat as a feed, even by alfalfa. If I had not had a silo I could not have kept my stock over winter.

I would not be without my silo for double the money I paid for it if I could not get another, and I am going to prove the fact to others, as it seems that the silo is the greatest topic for discussion around here this year. People are waiting to hear of the success of those who are using silos.—C. D. ANDERSON, McPherson, Kan.

My experience with the silo is very satisfactory. I filled silo with corn. It took 16 acres. The height of my silo is 28 feet and four feet in the ground, making it 32 feet deep, and it is 14 feet across.

It cost me \$95 for the use of machinery and labor to fill it. I am feeding 25 dairy cows and three horses, and all are doing well. I would have been short of feed had I not had the silo; but that does not spell it all, for there is no other feed as good and easily fed as silo feed. My son objected to the buying of a silo, but now he is like myself—a full believer.

I have told to some of my friends that if I owned 80 or 160 acres of land and was not able to build a silo any other way, I would sell half of my land and build a silo and buy stock to feed silage to and I would make more money and do it easier than I would the old way, or without the silo. The man who is keeping dairy cows can not afford to do without a silo.—H. D. SHINN, Cherryvale, Kan.

I bought an 18 x 26-foot silo, excavated six feet with a cement wall, which makes it an 18 x 32-foot silo. Its capacity is, I believe, 160 tons, and I filled it with corn making about 30 bushels per acre, and the corn was ready to be put in shock at the time of filling. I put 40 acres in. The corn was on sandy land and not a heavy stand. The cost of filling was \$1.01 per ton. I had to haul one and a half and two miles on account of corn on home farm drying up. This took twelve teams and the hottest two days last season, both men and teams suffering with heat, so had to go slow. I am sure had it not been for this heat I would have filled same for \$1.50 per ton. In this is included

(Continued on page fifteen)

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THE KANSAS BLIZZARD.

Now that the snowdrifts have been shoveled aside and the railroads are in full operation, the truth about the conditions in western Kansas during the recent stress of winter weather has become known. Instead of there being a great deal of suffering among the people, with heavy losses of live stock, there seems to be no community where human suffering was not relieved without outside aid, and the stories of losses of live stock seem to have been figments of reportorial imagination. That some losses occurred is not denied, but that these losses reached anything like the proportions that were published in the daily press is untrue. Reports from one county which was shut off from railroad communication for a time and which was said to be suffering seriously, show that there was no serious case of human suffering and that practically all of the losses which occurred among cattle were due to accident or cornstalk disease and not to the cold weather. Herding the cattle with horses and mules resulted in some losses, though very many more occurred from the crowding and trampling of calves when the herd was crowded into a small shelter. It is a part of the fate of Kansas to have her friends and enemies exaggerate, and if a smart breeze blows over some henhouse, or the thermometer drops below zero when the wind is blowing, it is heralded all over the world as a Kansas cyclone or a Kansas blizzard. The history of Kansas is written in capitals and punctuated with exclamation marks.

Kansas crop statistics always make a false showing because of the peculiar geography of the state. A part of the territory is among the best of corn regions that are known. Another part includes an area in which the crop is fairly certain and the average generally good, while a third area is a small grain country which frequently produces satisfactory crops of corn but where a satisfactory yield is not certain every year. The other states mentioned with which the Kansas corn yield has been compared are wholly within the corn belt proper. But even if we allow for the varied climatic conditions in Kansas, the fact remains that the average yield per acre is still too low. There is need for all the work that is being done by the farm papers, the agricultural college, the farmers' institutes and the corn clubs. Even these agencies, powerful for good as they are, are not sufficiently numerous nor is their membership large enough to accomplish any great change in results during one season. Very much can be done by the use of the grain grader, the seed tester and the manure spreader. The man who bought the prize corn at the Manhattan corn show is now raising 70 bushels per acre.

THE IMPORTANCE OF KANSAS HAY.

There are active men in Kansas who have barely passed the period when they could cast their first vote who now begin to realize the vast importance of the hay crop and of land on which it can be grown in this state. In the agricultural statistics, hay is the most important and valuable of all farm crops, excepting only wheat and corn, and the shifting of our live stock methods, together with the exigencies of agriculture in Kansas, have brought home to all men closely in touch with the soil the serious problem of hay production in the future and the great mistake that was made in early days in turning under so much prairie sod. Conditions now are such that farmers who have level land that is in blue stem or other pasture will undoubtedly make more money by cropping it to hay. The price for pasture land will undoubtedly be much higher, as we already have reports of pasture contracts that have been made for next season as high as \$6. Rough land can be used for pasture in many cases and the grass can be improved on it by careful management.

ABOUT KANSAS CORN YIELDS.

Last summer the word went around that Kansas was again stricken by a drouth; that her fields and pastures were burned up by the torrid sun and that calamity was again in store for Bleeding Kansas. This misinformation seemed to make good newspaper stuff, which was read by even those who knew it was not true. People who do not live in Kansas cannot comprehend the wonderful recuperative powers of her acclimated crops or understand that considerable extremes in both temperature and moisture are withstood with comparatively little damage to the final yield. The facts are now before us in the completed government statistics, and these show that the Kansas corn crop did suffer in the summer of 1911 and resulted in only 126,150,000 bushels, as compared with 170,050,000 for 1910. This was a considerable falling off on account of the weather conditions, but when we compare the money end of it we find that the value of the 1911 corn crop was \$79,474,000, as compared with \$76,522,000 for 1910. This means that while the farmer raised 43,900,000 bushels less corn, its value was \$2,952,000 greater in 1911 than in 1910.

The other way in which a farmer does not use the same judgment in one department of farm work that he does in another is found in his live stock breeding and feeding. A farm simply can not be run without live stock and attain any degree of success. This live stock is a part of the machinery of money making. If the machinery is good and does its work efficiently a profit is the result, even though the land and feed be high priced. High priced threshing machines, manure spreaders and cultivators are really cheap because they are efficient and economical of both time and labor. Pure-bred live stock is efficient in exactly the same way. They consume the roughage of the farm and manufacture it into high priced beef, pork or milk, and the economy of production and the profits obtained are always in proportion to the efficiency of these animated machines. Even if there were no live stock in the United States which was not pure bred and registered, there would still be mediocre animals of low value. We must have beef, pork and milk. Nothing has ever been found that could supply their places, and it can never be economical or a profit-making proposition to produce these on high-priced land with high-priced feeds.

During the unusual winter weather and heavy snowfall which has characterized the climatic conditions of Kansas for the last several weeks, farmers and live stock men have had impressed upon them in a new and emphatic way the value of modern ideas as applied to their business. Some time ago it was with difficulty that cattlemen could be persuaded of the value of cottonseed meal. Later it came into general use and during the stress of weather when it became so difficult to haul feed, the value of this concentrate was never more appreciated. With ordinary roughness and a small ration of grain with a little cottonseed meal, cattle can be carried along cheaply during such emergencies. Another new idea which was formerly regarded as a piece of foolishness is the silo. Those farmers who had silos and were able to feed their cattle with a warm, succulent ration during the severe weather, can appreciate the comfort afforded to both themselves and their stock, as well as the profits they have made by keeping the cattle in fine condition and growing right along.

The artificial incubation of eggs is practiced by a large percentage of farmers of today, as by so doing they are able to market their chickens at any season of the year and obtain the highest market prices independent of the nature of hens.

GOOD TOOLS—GOOD STOCK.

The farmer of Kansas is a most progressive and up-to-date leader in his profession, but he still lacks strongly in two particulars. His experience has taught him the value of improved farm machinery, and when he sees a new implement advertised which is superior to the one he is accustomed to, he lays plans to secure it, although this may involve the throwing aside of a fairly effective machine which is not yet worn out. In many cases he can afford to make the exchange because of the increased efficiency which he thus secures. If you go into his kitchen, however, you find in too many cases that the same rule does not apply, and that the kitchen utensils, such as were used by the forty-niners, are in painful evidence. Water must be brought from a frozen pump, wood carried from a snow-covered pile, and the family washing done by means of the washboard in hard water. The farmer is perfectly willing to buy expensive machinery which serves to produce his income and reduce his expenses in his farm operations, but he has not reached the point where he can comprehend that the same rules apply and the same economic facts obtain in the kitchen as well as in the barn. Men are developed in the kitchen and dining room, and pure selfishness alone should make them feel willing to furnish these departments with the best of up-to-date equipment. Above all, he should put forth his best efforts to make the ways of the housewife pleasant, because he has to live with her.

GET PURE STOCK.

The scrub hog is simply a hog and does not get much attention, because he is neither handsome to look at nor profitable to raise. The pure-bred hog is a work of the breeder's art and is handsome in appearance and a rapid money maker for his owner. There is a satisfaction in handling pure-bred stock which can never come through the handling of scrubs. This feeling of satisfaction is doubtless intensified by the money-making abilities of the pure-bred, but it would still exist even without that. The man who milks 10 cows with an average production of 150 pounds of butter per year has neither the incentive nor the satisfaction that is obtained by the man who milks three cows which average 500 pounds of butter per year. The first does more than three times as much work and gets small returns in which there is no profit, while the second does less than one-third the amount of work and has a fat bank balance as well. Any animal that has dollar signs sticking out all over him is attractive to look at any very easy to love.

PRESIDENT WATERS HONORED.

At the last annual meeting of the American Breeders' Association, which was recently held in Washington, President H. J. Waters of the Kansas State Agricultural College was elected first vice president, and Secretary James Wilson of the United States Department of Agriculture was made president. This Association is composed of the highest class of workers in scientific lines in the United States and ranks as one of the leading scientific societies of the world. This Association does its work under three sections—plant breeding, animal breeding and eugenics, or the problem of human race improvement. Prof. H. F. Roberts, head of the Department of Botany in the Kansas State Agricultural College, read a paper before the plant breeders' section, describing some phases of his work toward the evolution of drouth-resisting corn. Prof. Roberts was afterwards made temporary chairman of the plant section, and also chairman of several important committees.

If there is no don't worry club in your neighborhood, get busy and organize one. Make yourself charter member number one.

THE SIZE OF KANSAS.

Much has been said and written of the size of Kansas, and much more might be said before a true idea of its vastness is generally obtained. Eighty-two thousand square miles is a vast expanse of territory, but just how large we can hardly comprehend. Suppose we could combine the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, Delaware, Maryland and the District of Columbia into one state; Kansas would contain them all, and still have room enough for another Rhode Island. Kansas is larger than any southern state except Texas, and exceeds in size both the Virginias. It is almost as large as the combined areas of North and South Carolina, and is larger than Ohio and Indiana together.

If size alone were significant, Kansas could take its place among the first-class powers of earth. England and Scotland together are smaller than Kansas, while Wales, Ireland, Switzerland, the Netherlands and Belgium added together will not equal it in size. Or we might add, Denmark, Andorra, Portugal, San Marino and Greece together and still not have enough territory to make a Kansas. Turkey in Europe is not as large as this state, and Roumania, Serbia and Montenegro combined do not equal it. It exceeds in size the great islands of Celebes, Java, or the Moluccas, and would make more than a dozen Polynesias if cut up into little islands and sowed broadcast in the ocean.

Butler county alone is larger than Rhode Island or the whole of the French possessions in the West Indies, and Atchison county equals the whole of the Dutch possessions there.

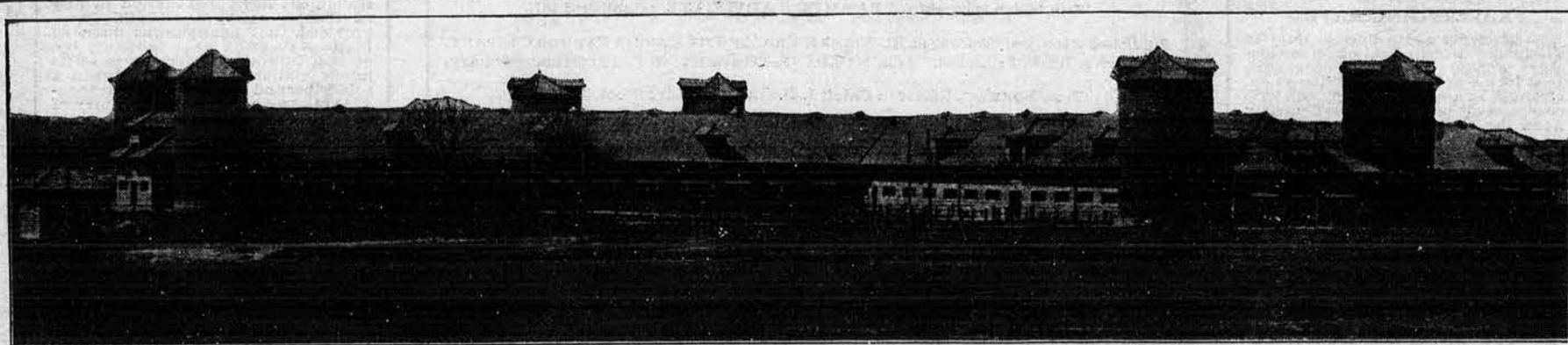
RESTOCK WITH PURE-BREDS.

The hog cholera situation of the past summer and fall has developed one fact that stands out prominently. This is that hogs will be in demand and that breeders who have good hogs for sale will have a very satisfactory business, and the public sale averages will run higher than for several years past. This will not be due to the hog cholera alone, though that has had its influence. The farmers are coming to appreciate more and more the absolute necessity for good blood as a means of economical pork production on high-priced feed and high-priced farms. Those who have lost hogs by cholera as well as the army of young farmers who each year leave the Agricultural College to start in business for themselves, will be largely influenced to purchase at the winter sales in order to give the good blood a trial at least.

The Kansas corn figures are interesting and in some degree satisfactory when the amount of yield and the value of the corn crop alone are considered. If we look, however, at the acreage, we find that Kansas, with 8,700,000 acres, stood third in the list of all the states, and was exceeded only by Illinois, with 10,150,000 acres, and Iowa, with 9,850,000 acres. No other state very closely approached these figures. We like to boast of our acreage and our yields, but when it comes to an average yield per acre we have less ground for congratulation. All this great area of Kansas corn fields only averaged 14 1/2 bushels last year, as compared with 19 bushels for each of the two preceding years, and also as compared with 33 bushels in Illinois and 31 bushels in Iowa, both of which were below the normal.

As the southern farmers find much profit in Lespedeza and the northern farmers in Grimm's alfalfa, so those of the extreme northwest are proud of their Tillamook clover. This is a native clover, nearly akin to alsike, and is said to be a heavy producer, growing all the year round by its root nodes. The Department of Agriculture has pronounced it to be one of the most interesting clovers discovered.

WHY THE SILO IS PROFITABLE



BRICK BARN WITH TILE ROOF AND SIX STAVE SILOS ON ELMENDORF FARM, LEXINGTON, KY., J. B. HAGGIN, OWNER. FARM COMPRISES 8,000 ACRES, DEVOTED TO DAIRY, BEEF, SHEEP AND HORSES. SAID TO BE FINEST FARM IN THE WORLD.

Last winter the Nebraska Dairymen's Association offered cash prizes to farmers who submitted articles setting forth reasons why the silo is profitable for the stock farmer. Below is the first prize article. It is an excellent statement as to the value of silage.—Editor.

All farmers will agree that pastures furnish the most ideal feed for all classes of live stock, and judging from the experiments, the most profitable adjunct of corn and hay in a ration for dairy cows, fattening steers and sheep.



There is no feed like the green grasses of our pastures to tone up the system of the aged stock and put the young stock in a condition of thrift and growth.

We all know of the good condition of our young stock when they come into the yard in the fall. They are sleek, fat, and have made an astonishing growth during the few summer months. But, how different the picture when we see the same animals eagerly push through the pasture gate when spring again comes. They are thin, out of condition, and many actually weak. We call this "roughing them through the winter," and they generally fit this description in every particular.

What a boon it would be if we could have pasture for our stock the year around. But this is impossible, so the next best thing we can do is to find some feed that is as near like pasture grass as is possible, to find a feed that is palatable and one that can be raised on our farms.

In searching about for winter feeds of this description, we find that there are only two such feeds which can be grown profitably. These feeds are roots and corn ensilage. In comparing the feeding value of the two we find that corn ensilage has a slight advantage in that it gives us larger gains and milk yields, but this difference is very small and of little consequence. Let us consider then which crop gives the largest tonnage per acre and requires the least labor to grow. After we have compared roots and ensilage we are in a position to say which of these grass substitutes is the best for the stock farmer.

First, we find that ensilage will yield on the average about one-half again as much per acre as mangels, the largest yielding root crop we can grow. In considering the labor, Armsby of Pennsylvania station says it costs over twice as much to tend and harvest an acre of roots as compared with raising and putting into the silo an acre of corn. Drawing our conclusion from these statements corn ensilage is by far the best pasture substitute of the two.

Let us now look at an analysis of pasture grasses and corn ensilage.

	Water	Protein	Ether	Ash	Crude	Fiber	Nitrogen	Extract
Pasture grass...	80	9.7	4	2	.8	3.5		
Corn ensilage...	79.1	11	6	2	.8	1.7		

("Henry's Feeding," pp. 622 and 623.)

We see that the two are practically the same with the exception of the protein content, and this can be adequately supplied by clover or alfalfa hay. With these two feeds, which can be so abundantly and easily grown, we have a per-

Silage Nearer Equal June Grass Than Any Other Winter Feed

By W. O. FORBES

fectly balanced ration in roughage, with corn ensilage to supply the carbohydrates and clover or alfalfa hay to supply the protein, we have a combination which makes one of the best as well as the most economical winter feeds known.

Now that we have found the best pasture substitute as far as composition is concerned, let us look at the cost. I might add here, for a further proof of its similarity to pasture grass, that a series of experiments were carried on at Nebraska Experiment Station with dairy cattle and a similar experiment at the Indiana station with fattening cattle to see whether or not such animals taken off of pasture in the summer time and fed ensilage would shrink in milk yield or decrease in gains per day. To the surprise of the experimenters there was a slight increase while on corn ensilage over the period on pasture. This is proof enough that corn ensilage is a genuine substitute for summer pasturage.

Not only can it be fed to milch cows and fattening cattle, but with as much profit to growing stock, sheep, hogs and chickens. Going back again to the cost, we find that a hundred-ton silo, a corn harvester and an ensilage cutter will cost about \$600. This first cost is a barrier that keeps a good many of us from erecting silos, either because we do not have the money or because we figure that we have gotten along so far without it and can continue to do so, as it is such a costly improvement. There are more men in this last condition than the first. As soon as one can show these men that the silo will pay for itself in the feed saved or by the

gains of the stock when used, they will gladly consider the proposition. Scores of farmers who have put up silos in the past years will testify that the silo does not owe them a cent and that no improvement put on their farms has paid them such dividends. Many claim that in one year the silo will pay for itself. I consider there is no argument that can be urged that is as strong as the findings of our experiment station men.

Prof. A. L. Haecker of the Nebraska station has worked out some interesting data on the cost of producing a ton of silage, figuring in the rent of land, plowing, cost of seed, planting and cultivating, he found that it cost 72 cents per ton. The cost of filling the silo, allowing a liberal wage for men and teams, he found to be 74 cents per ton. The cost of machinery and storage, including all items such as interest on money invested, depreciation and repairs, and even taxes and insurance, was 48 cents per ton. Adding these three initial costs together, we find that the cost of producing a ton of corn silage to be \$1.94. Prof. John Bower of Iowa has another way of figuring it in which he arrives at about the same figures.

The next question would be, what is a ton of corn ensilage worth? Since it has no market value, because it can not be shipped or hauled about, we will have to figure its value by comparing it with other feeds and roughage. On this basis the best authorities estimate its value at from \$5 to \$6 per ton. Taking the lowest value of \$5 per ton and deducting \$1.94, the cost of a ton of silage, we still have a margin of \$3.06 per ton. On a hundred-ton silo, this would mean

a saving in one year of \$306 worth of feed, to say nothing of the labor saved and the general good condition of the stock, resulting from the feeding of silage. So the farmers are right who testify that a silo erected on their farms and filled will pay for itself in a year.

No crop will yield as many pounds of digestible nutrients per acre as will an acre of corn placed in the silo. This is admirably shown by the following table:

One acre—	Pounds of digestible nutrients
Corn ensilage (12-ton yield).....	3,066
Tame or prairie hay (2½ tons)....	2,380
Corn (50 bushels).....	2,209
Oats (50 bushels).....	1,092

(Henry's Feeding, pp. 631-634.)

Another advantage in the use of the silo is the great economy of space. Only 50 cubic feet is required to store a ton of ensilage, while a ton of hay in the mow occupies ten times as much space, or 500 cubic feet.

We have been looking at the silo so far from a money-making or saving point of view. Let us now consider its convenience and the labor saved in its use. At the Nebraska station, where corn ensilage is used in both the dairy and beef barns, one man can get the feed from the silo and feed 40 head in less than one-half hour, and all this is done under shelter. Think of the time needed and disagreeable work it would be if one were obliged to go into the field twice or three times a week to get this same feed in the form of dry, unpalatable corn stalks. Often the work is made more disagreeable by the shocks freezing to the ground and the loading difficult on account of the high winds. When this dry fodder is hauled to the barn, we are told by the best authorities that it has lost from 25 to 35 per cent of its food value, while if the same crop had been put in a silo the loss would not exceed 5 per cent.

In summing up the subject, I would say that every stock farmer should have a silo, for the following reasons:

First: Because corn ensilage is the nearest and most economical substitute for pasture grass, which is the most ideal of all our rations.

Second: That an acre of corn ensilage yields from 600 to 2,000 pounds more nutrients per acre than any other of the farm crops.

Third: That there is a great economy of space in its use.

Fourth: That its use makes it more pleasant to feed stock and also saves a great deal of time and labor.

Fifth: Because with its use in the winter ration, larger gains and milk flows are the result.

Sixth: With its use, practically the entire food value of the corn crop is saved.

Seventh: That the silo enables the farmer to keep double the number of head of stock on the same farm.

Eighth: That our fields are cleared and ready for fall wheat or rye, as all our corn stalks are safely stored in our silo instead of going to waste in the field.

Ninth: And lastly, and probably the most convincing of all, is the fact that practically every farmer now using the silo would not do without it. When we can grow and store away for winter use a food that takes the place of our pasture and that food can be raised on our farms at a less cost than any of our present feeds, the equipment for the storing of such feed should be installed on every stock and dairy farm.

SILAGE CHEAPEST TO STORE

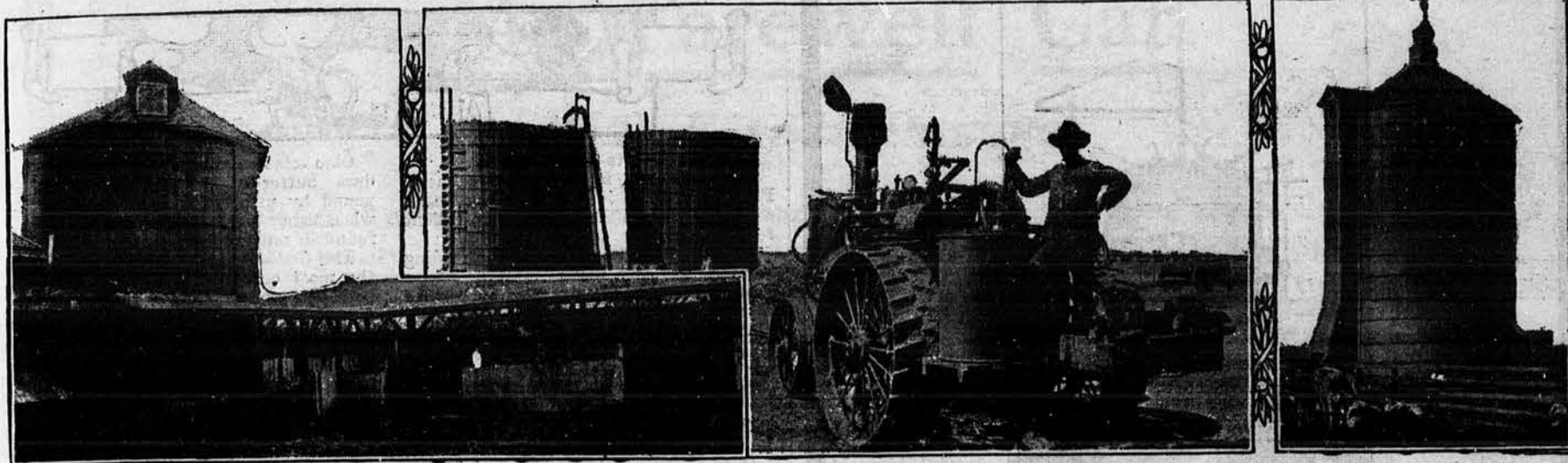


cattle 180 days. When the silo is filled the season's feed is all in—the hay mow will require filling and refilling.

THE economy of storage for fodder is seldom considered, but at this time of high cost of building it is of no small importance. A ton of corn ensilage in a 30-foot silo requires about 50 cubic feet of space, while a ton of hay in a mow requires about 400 cubic feet. This means that hay requires eight times as much space for storage as corn ensilage. To cut, cure and put tame hay into the barn costs about \$1.50 per ton, while to put corn ensilage into the silo costs about 75 cents per ton.

This illustration shows the exact proportion of structure required to store 100 tons of hay and 100 tons of silage. Eight times more feed can be stored in the silo than in the mow. One hundred tons of silage will feed 25

BUILDING AND FILLING A SILO



(PICTURE AT LEFT) SHOWING CEMENT MANURE SHED AND LITTER CARRIER. (CENTER PICTURE) FRONTIER SILOS AT CORSIKANA, TEXAS, FILLED WITH SORGHUM, KAFIR, MILO AND PEAS. (PICTURE AT RIGHT) IDEAL CHUTE BUILT OVER SILO DOORS AND FEEDING ENTRY AT BOTTOM.

The great importance of the silo is shown when we consider that during the season of 1910 about 400 silos were erected in our state, while previous to this date the total number in Kansas was somewhere between 50 and 60.



The following season, that of 1911, shows something like 600 more silos erected, an increase of 50 per cent over and above the number built the year previous.

When we consider that the stalks represent one-third of the actual feeding value of the corn crop, and this crop in Kansas, grain alone considered, is valued at \$59,599,408, the great possibilities of the silo may be realized in a small degree. The stalks represent a value of \$20,000,000, and where these stalks are placed in a silo the feeding value is increased 40 per cent over and above that of the stalks fed in the form of fodder, due to the fact that the whole stalk is converted into an available form of feed. Thus, if all the corn stalks of Kansas were placed in the silo they would have an increased valuation of \$8,000,000 over and above that of stalks fed in the form of shock fodder, while compared with pastured stalks the increased feeding value if same are placed in the silo is 80 per cent, or \$16,000,000, in the state as a whole. The above mentioned facts would indicate that the general tendency of the Kansas farmer will be rather to increase the number of silos erected and thus reduce the losses of forage crops to the minimum.

History indicates that the silo dates back to Persian and Roman times, when grain forage crops were stored in pits. The first silo was built in America in 1876 by Mr. Morris, of Maryland. Since the first silo was constructed, there has been considerable change in the method of erecting. Some of the factors causing these changes are, a desire to decrease loss of stored feed by decay, and decrease cost of construction.

With these two points in mind, the silos in use at the present time have been evolved. Some of the factors which must be given special attention if the silage is to be stored with a minimum loss are:

- 1.—The base and walls of the silo must be absolutely impervious to air.
- 2.—The walls of the silo should be perpendicular and as smooth as possible to offer the minimum amount of friction to the settling silage.
- 3.—The silo must be of a height such that the silage will be subjected to a sufficient amount of pressure.

This last point has caused the most noticeable changes of late years, and where formerly silos were erected from 20 to 28 feet in height, we now find that the tendency is to construct them 35 feet in height, and, in fact, I know of several as high as 60 feet.

In selecting a silo, the first point which should be taken into consideration by the party contemplating the purchase is whether or not his herd is of sufficient size to warrant the expenditure of the necessary purchase price. A man should have at least 12 head of stock to warrant the erection of a silo.

The size of the silo is a point of con-

Address Before Kansas Improved Stock Breeders' Association, January, 1912

By GEO. S. HINE, K. S. A. C.

siderable importance. Do not think that if a small silo is a good thing, a large one is a whole lot better, for such may not prove to be the case. The silo is an immense can, the purpose of which is to preserve in the form of a green, succulent feed the forage crops produced on the farm. As such is the case, the green feed placed in the silo must be protected from the air. The sides and bottom will take care of themselves, but the top must be protected. When this portion is covered in some manner the desired protection will be procured, but as soon as we uncover it in order to feed the silage, the top layer will again be exposed to the air. The method of obviating this difficulty is to construct a silo of such diameter that the animals to be fed will consume the amount of silage contained in a layer two inches in thickness, removed from the entire surface of the silo. Thus, for a herd of from 12 to 20 head of stock a silo 12 feet in diameter would prove a satisfactory size, while from 20 to 25 animals would be better accommodated by a silo 14 feet in diameter, and herds numbering from 25 to 40 need a silo 16 feet in diameter.

When the size of the herd is thus proportioned, it is possible to feed at least two inches from the surface of the silo each day. This results in the exposure of an entirely new layer of silage each day. Silage will not ordinarily spoil until exposed to the air for a period of 48 hours. Thus, by feeding daily a layer from the surface of the silo, we are enabled to effectually preserve the silage. When the silo has too large a surface area for the herd fed, spoiled silage is bound to result.

The next point to be considered is the necessary height of the silo. This may readily be determined by the contemplative builder. If he expects to feed at the rate of two inches per day for a period of 180 days, the desired height of the column of silage would be two times 180, or 360 inches, or 30 feet. Thus, a column of silage 30 feet in height will last through a feeding period of 180 days, provided that no more or no less than two inches per day is fed.

If one is convinced that the silo is a

necessary building on the farm and has figured out the size required to accommodate the herd he contemplates feeding, the next question to answer is, "What type of silo shall he erect?" This is a question which everyone must answer for himself. Before deciding, however, it is well to get all the reliable information possible regarding the various types. There are many firms manufacturing the stave type of silo, and each particular type has some special feature of its own. One general point may be kept in mind, however, regardless of the type purchased, and that point is, that it is better to purchase a single piece stave, and preferably a stave of Oregon fir. When the silo is delivered the most important thing is to set same up properly.

First, the foundation should be constructed. When desired, provided that drainage conditions will permit, it is preferable to have the foundation extend four feet below the surface of the earth. When this plan is followed, the footing is not affected in the least by the various weather conditions to which it may be subjected. Then, too, this foundation will act as a portion of the silo proper. This gives an added four feet to the silo, and yet does not increase the height of the lift in filling the silo. Also, in removing the silage, the last few inches of same is the only portion of the feed which must be lifted, and that only to a height of four feet. Said foundation should also extend some six inches or a foot above ground. This keeps the staves well away from the ground.

After the foundation has been filled in to the desired height, a slight groove should be cast near the inner surface of same and eye bolts should be imbedded in the concrete, so as to enable the owner to fasten the base of staves to the foundation. Care should be taken to make sure that the diameter of the foundation in the clear is but three inches less than the inside diameter of the stave portion of the silo. Thus, when staves are set up, there will be a 1½-inch shoulder. This allows for the shrinkage of staves after the silo is emptied.

The foundation completed, it is time

to get staves in readiness for erection. The groove in foundation should be filled either with pitch or tar, and the staves set in same. The purpose of this is to thoroughly protect the base of the staves from any moisture which may exude from the silage, as well as any water from the outside. The staves should be treated, on the inner surface, at least, with a mixture of creosote or oil. Paint will not answer and tar does not give as good satisfaction as either of the above mixtures. The external portion of the silo may be covered with paint. The object of treating the base and inside of the staves in the prescribed manner is to make them as impermeable as possible to moisture, thus reducing greatly the tendency of the stave to swell and shrink. This type of silo must also be protected against wind storms, unless erected in the near proximity of a barn to which it can be fastened. Heavy guy wires should be used, at least four in number, and these should be firmly anchored some distance from the base of the silo. The silo is now ready to be filled.

When filling the silo, be sure to thoroughly tramp the silage, especially around the edges, as the friction of the walls causes the silage to settle less readily at these particular points. The silage should be cut in segments of one-half inch lengths. When cut in this manner no difficulty will be found in thoroughly packing same. When the corn has dried out to any considerable degree, water should be added; said water may be run into the blower or added to the silage within the silo, provided that the water pressure is great enough. In all cases, however, water should be added to the silage at the rate of one gallon per square foot of surface after the silo has been completely filled. The object of adding this water is to induce a more rapid decay of the top layer of silage, thus protecting to better advantage the remainder of the feed.

Upon opening the silo, this decayed layer is removed. It usually has a thickness of from eight to ten inches. The silage underneath should be in perfect shape. However, we find that the quality of the silage is better the deeper we go. After about half the silage has been fed it often happens that cracks will begin to form, due to the fact that the staves show a marked tendency to shrink. When these cracks first appear, the owner should tighten the hoops and keep them tight, otherwise the staves will warp out of shape. Should this occur, it is impossible to again get the staves back in place, with the result that the air will have ready passage between the staves when the silo is filled the following year, and this means spoiled silage. After the first year, far less shrinkage will be noticeable.

I have discussed the stave type of silo first, since we find from five to seven structures constructed of this material to every one of all other types. Some of the reasons for this are that a stave silo can be purchased all ready to set up. Then, too, the stave silo can readily be moved. When properly cared for, the average life of this type of structure is about 10 years.

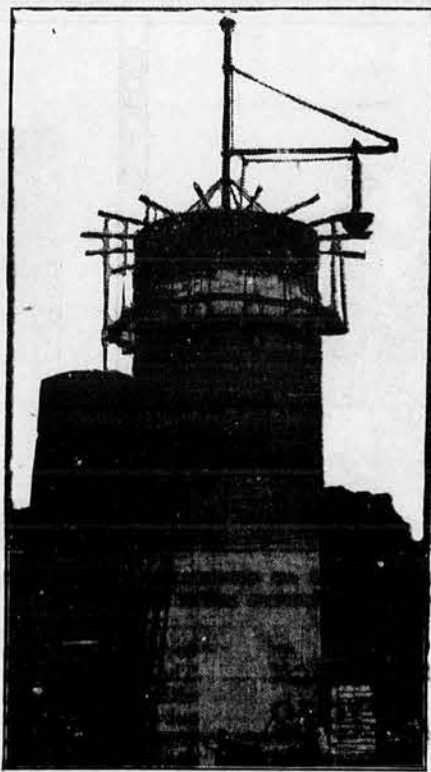
The next in importance within our state is the cement type of silo. In regard to these structures, will state that silage will keep fully as well in the cement as in the stave type of silo. To be

(Continued on page 13.)



SHADY KNOLL, BARN AND SILO, OWNED BY E. B. LEAR, STAFFORD, KAN., WHO IS FEEDING SILAGE TO MILCH COWS, STOCK CATTLE, HORSES, HOGS AND CHICKENS, WITH SATISFACTORY RESULTS.

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WE use the famous "POLK SYSTEM."

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Meet Your
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Seed is sold by numerous persons; but there is a vast difference in quality which often determines the success or failure of a field. A too large portion of the seed sold is of uneven quality. You can profit by the benefit of our 20 years experience in growing and handling Alfalfa seed. Acorn Brand costs a trifle more than some grades, but is worth many times the difference. Valuable information, Seed Book, samples and prices are yours for the asking.

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THE FARM



Silo Points to Remember.

That the silo is not an experiment. For thirty years it has proven to be an economic means for storing excellent feed.

It will save 40 per cent of the feeding value of the corn plant.

It will double the value of an acre of corn.

It will save labor in feeding stock.

It will make milch cows produce in winter as they do in June.

It will make a big profit in the growing of beef.

It will make possible the keeping of double the amount of stock we now keep.

It is in keeping with intensive farm practice and the proper thing for valuable land.

It is a good feed for cattle, horses, sheep, and chickens.

Ask the man who has a silo.

Value of Silage—Crops for Silo.

Where corn and alfalfa can be grown the silo is a logical and extremely profitable equipment, for no food is of greater value for economic milk and beef production than the combination of these two splendid feeds. As the value of corn silage is fully \$6 per ton and it costs less than \$2 to produce it, the feeder can not afford to be without a silo. KANSAS FARMER readers are reporting the sale of silage this year from poor corn, Kafir and sorghum, at \$7 to \$8 per ton. One reader recently sold 100 tons, which was his surplus, and another sold his silo full, because he was leaving the farm, each getting \$7 per ton.

While corn is the general crop for silage, there are many other plants which can be used for filling the silo. Alfalfa has been thoroughly tested and found a valuable plant for making silage. It often occurs that the first cutting of alfalfa is practically spoiled for hay, owing to the frequent rains at the season when it is put up. The first cutting can therefore be saved by putting it in the silo, and as the grass can go in green or wet it may be put up even during a rainstorm. Sweet corn makes splendid silage, and owing to its heavy yield it is a favorite plant for this use. On rich ground sweet corn will often yield 15 to 18 tons per acre. Sorghum, Kafir, milo, oats and millet may all be put in the silo with success.

Ensilage vs. Grain for Cows.

In a test conducted last year the Ohio Experiment Station endeavored to answer the question, "Can silage be made to take the place of a considerable portion of the grain ration usually fed to dairy cows?" The results of this experiment were published in bulletin form and are interesting. They are briefly summarized below:

The rations were fed carrying practically the same amount of dry matter. In one ration over 50 per cent of this dry matter was derived from silage and less than 18 per cent was derived from grain. In the other ration over 57 per cent of dry matter was derived from grain, no silage being fed.

Ten cows, representing five different breeds, were fed these rations, from two to four months, five cows taking the test the full four months.

The cows fed the silage ration produced 96.7 pounds of milk and 5.08 pounds of butter-fat per 100 pounds of dry matter.

The cows fed the grain ration produced 81.3 pounds of milk and 3.9 pounds of butter-fat per 100 pounds of dry matter.

The average net profit per cow per month over cost of feed was \$5.86 with the silage ration and \$2.40 with the grain ration.

Silage and Experiment Stations.

Here is the meat of experiments conducted by our various stations:

Missouri found in a steer-feeding experiment where corn silage was compared with hay, \$1.07 for every 100 pounds of beef was saved by the use of silage.

Illinois station in bulletin 73 found corn ensilage worth 31 per cent more than corn fodder when all costs were considered.

Ohio station found they could produce butter-fat 9 cents cheaper per pound by using silage than they could when using hay. A like difference was found in milk production.

The Indiana station found the silo the most economic means of producing both beef and mutton in three well conducted experiments. They also found corn ensilage to be worth from \$5.50 to \$6.50 per ton when fed to fattening steers and sheep. This in the light of the fact that corn ensilage will not cost the farmer more than \$2 a ton should be convincing argument.

The Mississippi station found corn ensilage in the south the most economic means of producing both milk and butter.

Pennsylvania station found good results in feeding steers silage and realized a value of \$6.20 a ton when used in this way. They also found silage superior to hay and much more economic in the raising of young stock.

Massachusetts found in a steer-feeding test corn silage to produce meat cheaper than where hay was used.

Ontario experiment station found they could save \$63 on every \$200 invested in feed if they used corn ensilage in preference to hay in feeding cattle.

Kansas experiment station not only produced beef cheaper with silage in the ration, but also the silage-fed steers sold at a higher price on the market than did the dry fodder steers. They found corn ensilage when put in the silo would keep for five or six years and retain its feeding value.

Michigan experiment station has been using silos since 1881 and has found in several experiments ensilage to be the most economic form of feeding the corn plant to live stock.

Cottonseed Poisoning.

In speaking of cottonseed meal and the amount which can be fed daily to fattening steers without injury, Prof. G. C. Wheeler, Animal Husbandry Specialist at Kansas State Agricultural College, said:

"It is a generally understood fact that feeding steers in close confinement heavily on cottonseed meal sometimes gives bad results. Vast numbers of steers are fattened in the South near the cottonseed oil mills beginning with three or four pounds daily and sometimes reaching as high as six to ten pounds daily per steer. They feed about four pounds of hulls to each pound of meal when fed in this way. They very seldom can feed to exceed 90 or 100 days in this way.

"I talked with Prof. Smith of our Animal Husbandry Department, who was formerly connected with the Arkansas Experiment Station, and he tells me that in his experience it is possible to feed much larger quantities than the four pounds inquired about.

"Prof. Soule of the Tennessee Experiment Station has done a good deal of experimental work in feeding steers in the South, and speaking of the results he states that he considers 'a ration of silage, cottonseed meal and corn meal as probably better adapted to use on the average southern farm than any other.' McLean, formerly of the Mississippi Experiment Station, reports as a result of their experimental work that 2-year-old steers should not be fed over seven and a half pounds daily of cottonseed, and yearlings not over six pounds.

"It is my opinion that where fed in connection with silage there is far less danger of any harmful results than where fed with dry feeds only. The experiences over the section where cottonseed meal has been fed on grass have indicated that there is practically no danger when the steers are grazing, unless fed in extremely large quantities."

A man was arrested in Cinoy because he fell against a live wire and carried off a lot of electricity. The jury promptly found him guilty as charged.

The best time to cut corn, if the whole crop is to be saved, is just when the ears are well glazed and the shucks and middle leaves are beginning to turn brown.

My Farewell Car

By R. E. Olds, Designer

Reo the Fifth—the car I now bring out—is regarded by me as pretty close to finality. Embodied here are the final results of my 25 years of experience. I do not believe that a car materially better will ever be built. In any event, this car marks my limit. So I've called it My Farewell Car.

My 24th Model

This is the twenty-fourth model which I have created in the past 25 years.

They have run from one to six cylinders—from 6 to 60 horsepower. From the primitive cars of the early days to the most luxurious modern machines.

I have run the whole gamut of automobile experience. I have learned the right and the wrong from tens of thousands of users.

In this Farewell Car, I adopt the size which has come to be standard—the 30 to 35 horsepower, four-cylinder car.

Where It Excels

The chiefest point where this car excels is in excess of care and caution.

The best I have learned in 25 years is the folly of taking chances.

In every steel part the alloy that I use is the best that has been discovered. And all my steel is analyzed to know that it meets my formula.

I test my gears with a crushing machine—not a hammer. I know

to exactness what each gear will stand.

I put the magneto to a radical test. The carburetor is doubly heated, for low-grade gasoline.

I use nickel steel axles with Timken roller bearings.

So in every part. The best that any man knows for every part has been adopted here. The margin of safety is always extreme.

I regard it impossible, at any price, to build a car any better.

Center Control, Finish, etc.

Reo the Fifth has a center, cane-handle control. It is our invention, our exclusive feature.

Gear shifting is done by a very slight motion, in one of four directions.

There are no levers, either side or center. Both of the brakes operate by foot pedals. So the driver climbs out on either side as easily as you climb from the tonneau.

The body finish consists of 17 coats. The upholstering is deep, and of hair-filled genuine leather.

The lamps are enameled, as per the latest vogue. Even the engine is nickel trimmed.

I have learned by experience that people like stunning appearance.

The wheel base is long—the tonneau is roomy—the wheels are large—the car is over-tired. Every part of the car—of the chassis and the body—is better than you will think necessary. No price could buy anything better.

Price, \$1,055

This car—my finest creation—has been priced for the present at \$1,055.

This final and radical paring of cost is considered by most men as my greatest achievement.

It has required years of preparation. It has compelled the invention of much automatic machinery. It necessitates making every part in our factory, so no profits go to parts makers.

It requires enormous production, small overhead expense, small selling expense, small profit. It means a standardized car for years to come, with no changes in tools and machinery.

In addition to that, by making only one chassis we are cutting off nearly \$200 per car.

Thus Reo the Fifth gives far more for the money than any other car in existence. It gives twice as much as some.

But this price is not fixed. We shall keep it this low just as long as we can. If materials advance even slightly the price must also advance. No price can be fixed for six months ahead without leaving big margin, and we haven't done that. The cost has been pared to the limit.

Catalog Ready

Our new catalog shows the various styles of body. It tells all the materials, gives all specifications. With these facts before you, you can easily compare any other car with this Reo the Fifth.

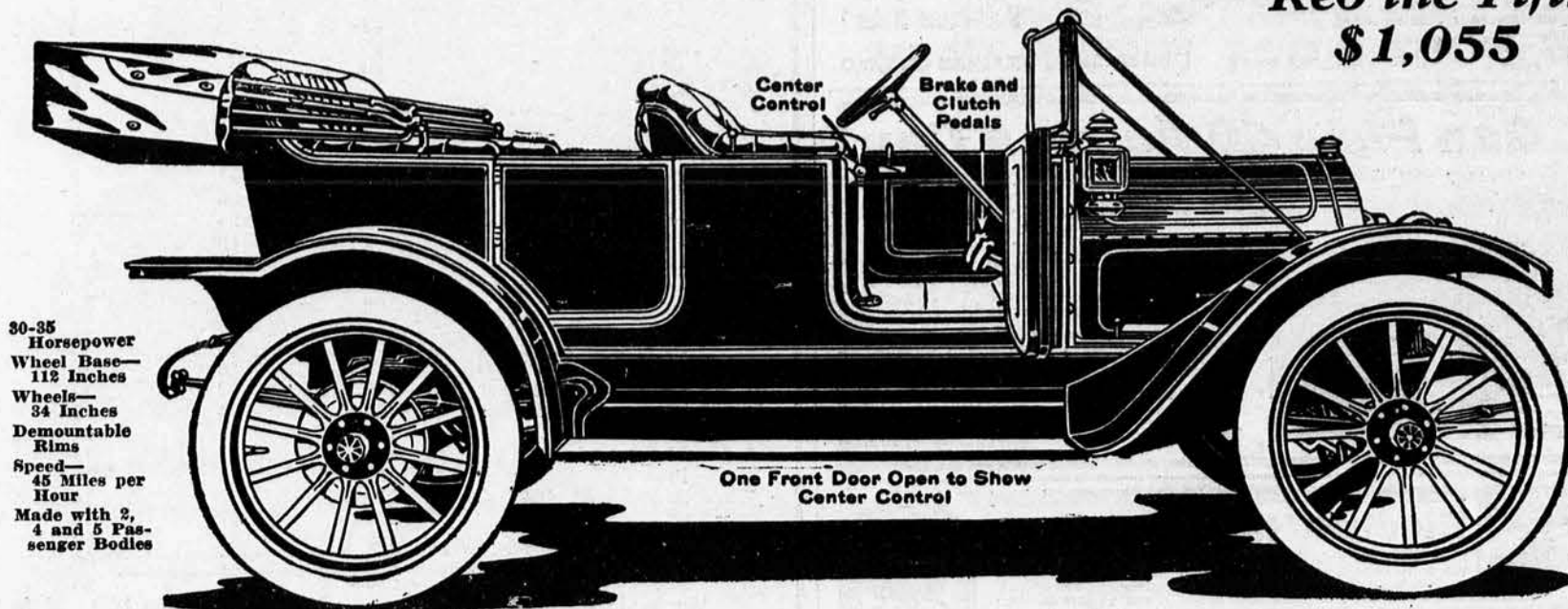
If you want a new car you should do that. Judge the facts for yourself. Don't pay more than our price for less value. After 25 years spent in this business, here is the best car I can build. And the price is \$1,055. Don't you think you should know that car?

Write now for this catalog. When we send it we will tell you where to see the car. Address—

R. M. Owen & Co. General Sales Agents for **Reo Motor Car Co., Lansing, Mich.**

Canadian Factory, St. Catharines, Ontario.

Reo the Fifth
\$1,055



Top and windshield not included in price. We equip this car with mohair top, side curtains and slip-cover, windshield, gas tank and speedometer—all for \$100 extra. Self-starter, if wanted, \$25.00 extra.



The Howard Watch

When the time comes to buy your HOWARD Watch—go to the leading jeweler of your locality.

The HOWARD is sold only by legitimate jewelers—and you will not find HOWARD Watches in every jewelry store, at that.

The HOWARD Company are as critical in selecting the jewelers to represent them as they are in perfecting the watches themselves.

They produce the finest practical watch in the world—and they want to deliver it to you through a jeweler who is capable

of respecting it, and of handling it as such a timepiece ought to be handled.

A HOWARD Watch is always worth what you pay for it—

In service, owing to the precise and permanent adjustment, which is peculiarly a HOWARD achievement.

In prestige, because ever since 1842 the HOWARD has been pre-eminently the watch with the leading men of every phase of American activity.

And in the sheer pleasure of owning the finest article of its kind ever produced.

The price of each watch—from the 17-jewel (double roller) in a Crescent Extra or Bore Extra gold-filled case at \$40 to the 23-jewel at \$150 and the EDWARD HOWARD model at \$350—is fixed at the factory and a printed ticket attached.

Find the HOWARD jeweler in your town and talk to him. He is a representative merchant—a good man to know.

Send us your name on a postal card and we will send you—FREE—our pamphlet, THE STORY OF EDWARD HOWARD AND THE FIRST AMERICAN WATCH. It is a chapter of History that every man and boy in this country should read.

E. HOWARD WATCH WORKS

Dept. No. 112

Boston, Mass.

THE "ARAB CHIEF" \$24⁸⁵

16-INCH TONGUELESS SULKY PLOW

Extra Well Built

This is the greatest money-saving Sulky Plow ever offered by any house. It is built for long, hard service of the best materials that money can buy. Has short, quick mould board for stubble ground which pulverizes the soil, and makes harrowing easy. Axles are high carbon Bessemer steel; beams 50 per cent carbon open hearth steel, frame high carbon Bessemer steel. Furnished with 14-inch coulters. Wheels are all 24-inch rims; dust-proof, removable boxes. You cannot fail to save \$15 to \$20 on this grand plow which we send to you on **30 DAYS FREE TRIAL**.

FREE IMPLEMENT CATALOG

Showing all kinds of Farm Implements at wholesale prices, saving you one-fourth to one-half your money. Every article the best value obtainable at the price. We sell Walking Plows at \$5.75 up. Also shares for any make of Plow at wholesale prices. Send for our Free Implement Catalog today.



30 DAYS FREE TRIAL

Weight, 400 Pounds

Dust-Proof Hubs

JONES, POST & CO., [THE HOUSE THAT SAVES YOU MONEY] 840 Liberty St. KANSAS CITY, MO.

You Can Plow 40 Acres a Day

Forty acres are an easy possibility with the **REEVES MULTIPLE GANG PLOW**. The only really successful outfit is the **Reeves Flexible-Frame Engine Gang Plow**.



because it does perfect work in all conditions of land. Flexible frame and running of plows in pairs gives REEVES PLOWS a great advantage over others. There are a dozen points of Reeves superiority.

WRITE FOR FREE BOOK

telling the whole story of traction plowing. Shows plowing scenes and gives letters from users. Either steam-lift or hand-lift plows can be furnished for either steam or gas tractors.

REEVES & COMPANY
118 5th Street, COLUMBUS, IND.



Electric Handy Wagons

Do away with high lifting in loading and unloading and cut the work of hauling in two. Complete steel wheeled wagons, suited to all work. Make good roads, do away with rutting, make draft lighter. We furnish steel wheels for old running gears and guarantee them to fit. If the wheels on your old wagon are going to pieces, write us. We will save you money. Catalog free. Address

Electric Wheel Co.
Box 34, Quincy, Ill.

Electric Steel Wheels



SILO CONSTRUCTION

HINTS FOR USERS OF THE SILO

By H. H. PUGH

This is of benefit to those who will build silos this year. For the foundation, excavate below frost line. Stone foundation is preferable to concrete or brick and is usually cheaper and more handy. Foundation should extend 1 to 1½ feet above ground and should be at least 14 inches thick. I do not advise a groove in top of wall for staves. Make wall top smooth, sloping to the center of the silo.

In foundation and perpendicular to wall place at least four anchors made from ½-inch rods. Anchors should extend to bottom of wall and 5 inches above wall with 3 to 4-inch thread. Anchors should, of course, be on outside of silo. After silo is up, shape a piece of 2 by 4, two to three feet long, to fit closely against silo. Bore hole in 2 by 4 for anchor to slip through, then screw nut down tight. Four anchors of this kind will prevent any possibility of silo skidding off wall. Set silo outside of middle of wall.

After staves are up, put on and tighten top hoop. Put two or three hoops on bottom and tighten. Temporarily anchor and silo is safe until job or constructing is complete.

Use ½-inch wire cables in permanent anchoring. Some manufacturers furnish rods instead of cables. I don't believe in rods.

The "U" bolts used in fastening cables to top of silo should pass around top hoop and over a rod at least two feet long on inside. Fasten cables on this "U" bolt securely with cable clips.

Lower end of cable is fastened in eye of anchor rods. These rods are placed in ground at least three feet deep and either set in concrete or large rocks. A strong post makes good ground anchor. Nail 2 by 4's three feet long in each direction across lower end of post. Set post well. Three-eighths-inch iron eye in top of post is convenient arrangement for fastening cable.

The strength of cable anchoring lies in ground fastening being proper distance from silo to give strong purchase. The table below gives distance at which ground anchoring should be from base of silos of different heights:

Silo 20 feet high, posts 10 feet from base
Silo 22 feet high, posts 12 feet from base
Silo 24 feet high, posts 14 feet from base
Silo 26 feet high, posts 16 feet from base
Silo 28 feet high, posts 18 feet from base
Silo 30 feet high, posts 20 feet from base
Silo 32 feet high, posts 22 feet from base
Silo 34 feet high, posts 24 feet from base

Silo 36 feet high, posts 26 feet from base
Silo 38 feet high, posts 28 feet from base
Silo 40 feet high, posts 30 feet from base

Every silo 16 feet in diameter and 30 feet high should have at least four cables. Five cables would make the silo more secure. This number of anchor cables properly placed and kept taut, with the anchoring as described, will prevent silo from blowing over. Each anchor cable should have a ½-inch turn-buckle inserted at height from ground convenient for tightening as occasion may require. You cannot afford to make a slipshod job of anchoring. If silo is blown down by anything except cyclone it is your fault.

Keep hoops tight. Upper hoop should always be tight. The strain on silo is on upper end. If this hoop is loose and cables are loose, heavy wind has chance to rock silo and even though staves are deep tongued and grooved, loose hoops will permit staves to blow in. All other hoops should be kept reasonably tight. After silo is empty it is a matter of only two or three hours to tighten hoops and anchors and eliminate danger of silo blowing over when empty. Loosen hoops slightly when you fill. Lumber will absorb moisture and if hoops are too tight swelling may cause hoop to break or lumber to buckle. Your best judgment will dictate in this matter.

A 16-foot silo can be roofed at a cost of \$5 to \$7.50. Silo manufacturers furnish rafters and headers for roof. Dimension boards 4 to 6 inches longer than rafters furnished and 1 by 12 inches wide, sawed diagonally, will fit and make excellent roof. Cracks can be battened or covered with Rubberoid roofing will make cheap and satisfactory roof.

Before setting up staves it is an excellent plan to paint tongues and grooves with white lead or good barn paint. After silo is up, paint at least two coats. Treat inside with coal tar or other similar preparation. A good mixture is 1 gallon coal tar to 1½ gallon gasoline. Good fir lumber treated inside once every three years will make such silo last as long as you have need for it. I know of stave silos 30 years old, well taken care of, which are in perfect condition. A silo so anchored and taken care of is indestructible except by cyclone or fire.

These suggestions, if followed, will be of value.

SILO SIZES AND CAPACITIES

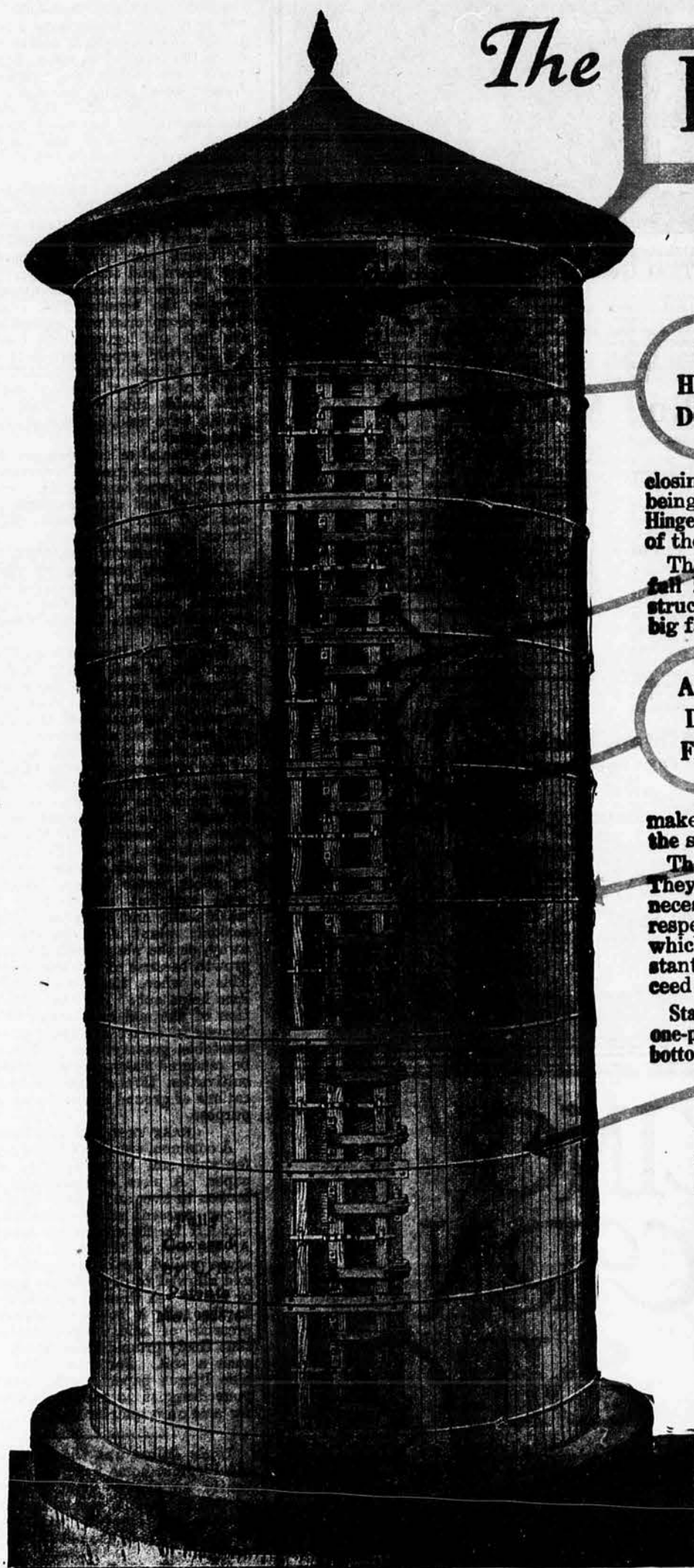
Here is given a list of standard sizes, also their approximate capacity, number of acres of corn required to fill each, and estimated number of grown cattle that can be fed, based on a feeding period of 180 days, allowing 40 pounds a day per head. This will assist those who may be contemplating the purchase of a silo to select the size best adapted for their use.

Diameter	Height	Est. Capacity	Est. Number	Est. Number
Feet	Feet	Tons	of Cattle	Required Acres Corn
10	24	36	10	3½
10	26	40	11	4
10	28	44	12	4½
10	30	47	13	5
12	20	45	11	4
12	24	55	14	5
12	26	60	15	5½
12	28	65	17	6
12	30	70	19	7
14	20	62	14	5
14	24	75	18	6½
14	26	85	21	7
14	28	90	23	8
14	30	100	25	9
16	20	80	19	7
16	22	90	21	7½
16	24	100	24	8½
16	26	108	27	10
16	28	115	30	11
16	30	120	33	12
16	32	130	36	13
16	36	150	42	15
18	24	115	34	12
18	28	142	38	14
18	30	150	42	15
18	36	185	53	19
20	24	140	39	14
20	28	170	47	17
20	30	188	52	19
20	32	200	57	20
20	36	230	67	24

We would recommend silos having a diameter of from 12 to 18 feet and a height of from 26 to 32 feet. The dimensions for each form should be figured as stated in George S. Hines' article in this paper.

Continuous Low Cost of Service Determines Silo Value

The Hinge-Door SILO



The HINGE- DOORS

The Hinge-Door is the greatest convenience and the most important improvement of recent years in silo construction. It swings to the inside, permits the closing of the silo at all times except when silage is being removed, cannot sag, bind, freeze or stick. The Hinge-Door is always in place and permits the closing of the silo between feedings.

The heavy all-steel door frame, which extends the full height of the silo, adds great strength to the structure. It prevents bulging or collapsing and is a big factor in resisting wind storms.

All-Steel DOOR FRAME

The patented malleable iron hinges make a strong, safe and convenient ladder. The hinges are 17 inches long, 15 inches apart, with a 7-inch clearance. These

make a convenient and safe ladder and add much to the silo.

The very best Billet steel hoops obtainable are used. They are considerably heavier than necessary, but in hoops, as in other respects, we have a reserve strength which makes the durability and substantiality of the Hinge-Door Silo exceed that of any other silo.

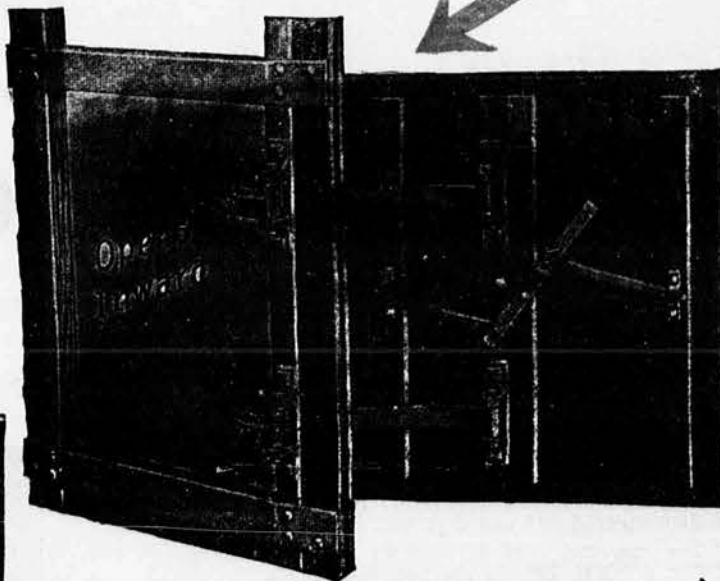
Staves are Triple A Washington Fir—one-piece, full-length staves from top to bottom.

Malleable IRON LADDER

HEAVY STEEL HOOPS

Powerful Malleable Iron Lugs

Every inch a SILO OF QUALITY
Built to last a lifetime

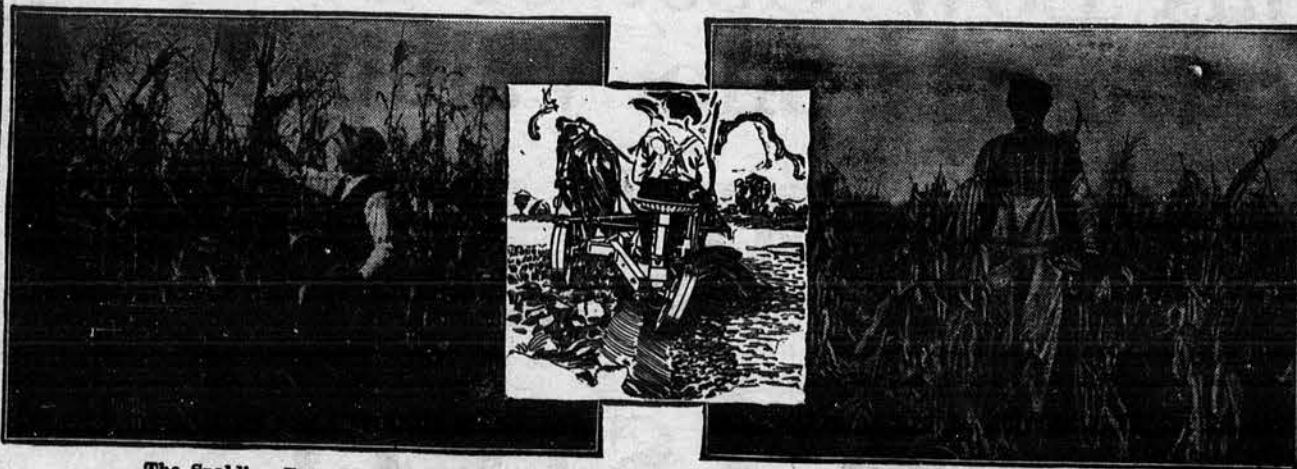


This Silo is MORE EASILY USED; of MORE SOLID CONSTRUCTION, and LASTS LONGEST—therefore the MOST VALUABLE and CHEAPEST to buy. ¶ Let us prove it all to you. ¶ Send your name for our Book of Silo Facts and get the most reliable information published. Write today.

NEBRASKA SILO CO., Box 2, LINCOLN, NEB.

Kansas Branch: Continental Creamery Co., Box 2, Topeka; Missouri Branch: Bellows Bros., Box 2, Maryville

100% Increase in Corn Yield



The Spalding Deep-Tilled Cornfield
Read Evidence of Deep-Tilling Machine's Work, That Goes With This Photograph

Platte, S. Dak., October 9, 1911.
Gale Manufacturing Company: I enclose a photograph of my cornfield. I am going to get a photograph of my neighbor's fields, planted at the same time and prepared with the same care, except that they were plowed the old way, five or six inches, while mine was plowed the Spalding way, twelve to sixteen inches. I can truthfully say that in this neighborhood I have never seen larger stalks or fuller corn than this field has.
FRED BOSSEN.

Neighbor's Field Plowed With Ordinary Moldboard
Work, That Goes With This Photograph

Platte, S. Dak., November 7, 1911.
Gale Manufacturing Company: This is my neighbor's cornfield. It was plowed in the spring, six inches deep. His yield is just exactly one-half of mine, twenty bushels per acre, where mine was forty bushels. It took 180 ears of his corn to make a bushel, and 120 ears of my corn from Spalding Deep-Tilled ground. The Spalding Deep-Tilled corn was 50 per cent better in quality than the shallow-plowed.
FRED BOSSEN.

The Spalding Deep-Tilling Machine

thoroughly pulverizes the soil and prepares a seedbed 12 to 16 inches deep or more. This deep seedbed absorbs three times as much moisture as the shallow tilled. The moisture soaks to the bottom of the seedbed below the point of evaporation and is held as a reserve against the time of need.

Makes Worthless Land Yield \$75 an Acre

Jos. E. Wing, the great agricultural expert, writes December 27, 1911: "One of the most joyous examples of the value of the Spalding Tilling Machine was on a farm in Georgia where old, eroded, worthless hill slopes were tilled so deep that they absorbed the rainfall and erosion stopped. It can really be said that the Spalding Tilling Machine made land that was worthless into land returning at least \$75 per year per acre."
J. H. Scofield, Minot, N. Dak., writes: "Spalding Deep-Tilled flax yielded 50 per

cent more than shallow-tilled—increased averaged \$15 an acre."

McP. Leavens, Kaycee, Wyo., writes September 4, 1911: "Oats on Spalding Deep-Tilled ground will go 100 bushels to the acre; wheat 50 bushels."

J. E. Pinson, Geiger, Ala., writes: "Corn on land tilled with Spalding was more than double what it was before."

3 Big Increases on One Farm

Fred W. Ladage, Auburn, Ill., writes: "Corn from shallow-plowed ground averaged 67 bushels per acre and the deep-tilled (same field) 79 bushels per acre. Oats on Spalding-Tilled ground averaged 40 bushels per acre, rest of field (shallow plowed) less than 30 bushels. I harvested 807 bushels of wheat from 20 acres of Spalding-Tilled ground."

If other farmers find the Spalding Deep-Tilling Machine such a crop maker on their farms, is it not reasonable that it will make just as large an increase in your crops?

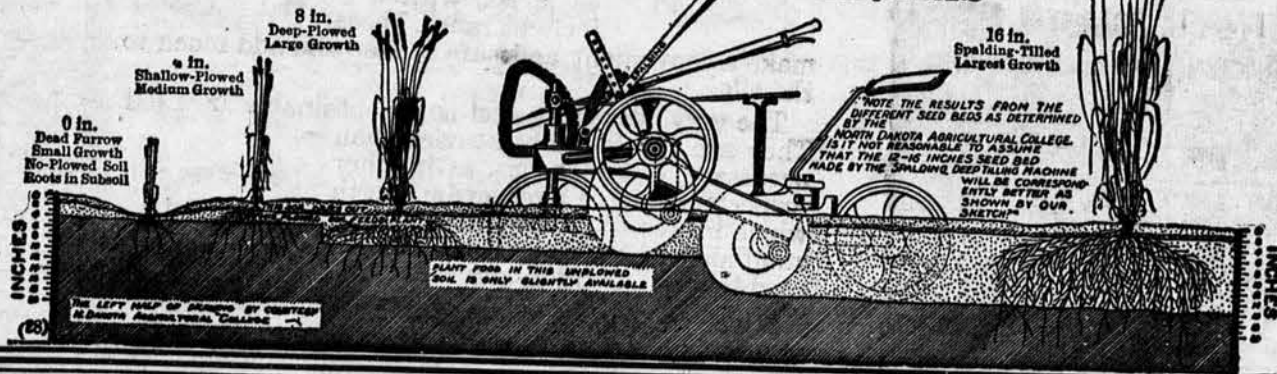
We have a large amount of the best literature on Deep Tilling, which we will send you FREE. Get your name on our mailing list and you will receive our pamphlets from time to time. Mail coupon or postal.

MAIL THIS TODAY.

Send your name to us below, so we can send you our Free Booklets and Pamphlets on Deep Tilling.
Spalding Dept. A-1, GALE MFG. CO.,
Albion, Mich.

Name _____
Postoffice _____
R. F. D. _____ State _____

Spalding Dept. A-1 GALE MFG. CO., Albion, Mich.
Established 1853
Makers of Farm Implements



DEERE KING CORN SILO

THE ONE FOR YOU TO BUY

The necessity of a silo no longer remains a doubt in the mind of the progressive farmer, stockman or dairyman. Land values are increasing and you should secure better methods of producing more and better feed. Here is an argument that is well presented and one that you should investigate.

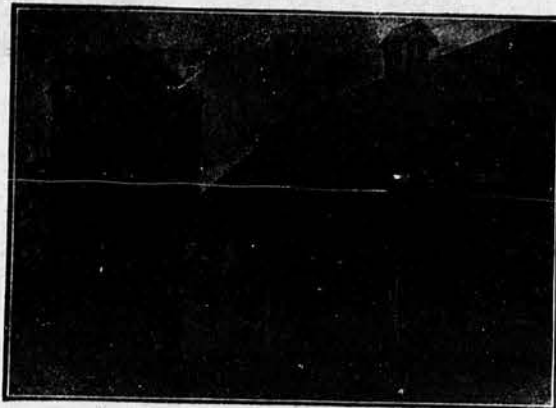
The material that is used in the manufacture of our KING CORN Silo is the best obtainable.

Exclusive Features.

DEERE STANDARD THROUGHOUT

We have the best proposition ever brought before your notice. Write today for one of our new silo catalogs, which tells the whole story.

MANUFACTURED BY
JOHN DEERE PLOW CO.
Dept. K, KANSAS CITY, MO.



LIME FOR ACID SOILS

By F. M. Simpson, Vienna, Ill.

The practice of liming soils is fast coming into use by all farmers, but especially by those whose lands are subject to washing or have been "made thin" by a long period of farming.

Crops are fast decreasing in yield, and farmers must do something to stop this; they apply phosphorus and potassium, and yet the yields do not reach the amounts originally received. Logically the next thing to do is to add nitrogen to the soil either in a commercial form or in the form of legumes, but still the yields are below expectations. The farmer then begins to think seriously of what to do next. This ends in his deciding to try an application of the much "touted" lime, and he is agreeably surprised to find his yields increased very materially.

WHAT LIMED FIELDS SHOW.

On the Vienna, Ill., experiment field the total amount of wheat produced in three crops shows 8.4 bushels where no treatment was given. Where legume was grown and turned under, 18.5 bushels. Where the soil was limed in addition to the legume, 28.9 bushels, and where phosphorus was applied as well as the lime and legume, 48.4 bushels. On the Fairfield experiment field where no lime or phosphorus was used, but nine-tenths of a ton of weedy clover was cut. Just beside this, where lime and phosphorus were used, 3.5 tons of clean clover were secured.

For general or common use, caustic or burnt lime and ground limestone are employed almost exclusively for the correction of soil abnormalities. The second and most important of the two forms is ground limestone.

EFFECTS PRODUCED.

The effects produced by the application of lime may be grouped under two distinct heads. One, the correction of soil acidity; two, the flocculation of the soil itself.

Most of the lime now used is for the correction of soil acidity, and to many farmers this reason for application seems the most profitable. Most plants, and especially legumes, will not thrive in a soil showing an acid reaction. The sour condition stunts and retards the growth of the nitrogen-gathering bacteria. The process of nitrification also suffers great loss from the abnormal condition, and through this diminished nitrification there is a lessening of the amount of available plant food.

Most clay soils are not porous enough to allow water to pass through them with sufficient ease. They therefore wash easily and badly or become water-soaked; plant food is either carried away, or the plant roots are retarded in growth because of the water-soaked soil. This is where the flocculating effect of lime helps out: It forms a flaky condition of the soil and causes it to easily become in better condition of tilth. Intractable, gummy, heavy clay soils may be rendered flaky, granular and easy of cultivation through the generous applications of ground limestone for the above purpose.

EASY TEST FOR ACID SOIL.

A common, simple and inexpensive test for acid soil is by the use of litmus paper. A piece of moist soil is taken, broken in two, and a piece of blue litmus paper pressed between the two halves and left for 20 minutes or half an hour. At the end of this time the pieces are again pulled apart, the paper removed and allowed to dry. If the paper is red, or nearer red than it was before placing in the soil, it is an indication of the presence of acid. This is also a sign that finely ground limestone will benefit such a soil. For five cents, sufficient blue litmus paper can be secured from your druggist to make a thorough test for acid on a quarter section.

Uncle Julius was the factotum of an old Virginia home near Lynchburg. Recently an electric light plant was installed in the old home, and the young master very carefully explained everything about it to the old dandy, and then asked:

"Now, Uncle Julius, do you understand all about it?"

"Yas, Marsa Chollie, Ah understands all 'bout it now,—all 'ceptin' what makes de coal oil slip fru such little wiahs."

In ten years from now the oil burning engine will be doing as much farm work as automobiles are now doing for transportation. The farm tractor is one of the big things that have come out in the last decade. Don't scoff at it. Learn about it.

SILO FOUNDATION

Drive a stake in the center of the spot located for the silo; the top of this stake should be level with the desired height of foundation. Spike a board or bar, having a length of a little more than one-half the diameter of the silo, on this stake, then nail on two cleats with points one foot apart, as in Figure A. This will serve as a guide in marking off a line on the ground where the foundation wall is to be built.

Dig out the earth, as in Figure B, to the desired depth you wish the foundation wall. This should be 12 to 18 inches deep in order to secure a good footing. Pack this ditch full of concrete (a good mixture can be made by using one part Portland cement, three parts sand, and one part broken rock, or another mixture is one part cement and four parts sand) to the level of the ground; then drive short stakes about



Figure 1.



Figure 2.

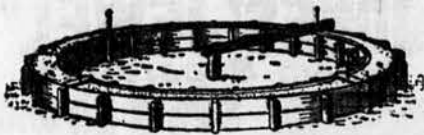


Figure 3.

outside and inside edge of wall and bend half-inch boards around, making form, as in Figure C.

Be sure to get the surface of your foundation level, or your silo won't go up straight. This is important.

It is a good plan to set four bolts in foundation wall, about four inches from outside, which can be used for anchoring down the bottom of the silo and prevent it from skidding off the foundation in heavy wind.

It is not necessary to put a cement bottom in a silo; the silage will keep quite as well resting on the earth.

Scratch a line around the top surface of the foundation, which indicates the diameter of the silo, and the place where the ends of the staves will rest.

In this construction cement blocks, brick or stone can be used, either with results as satisfactory as with concrete. In fact either of these can be used with greater convenience than concrete, although concrete makes a neat job. On many farms stone is handy, and a stone wall can be built after the same general plans with perfectly satisfactory results. Most silo foundations are of stone.

If it is desired to build silo a few feet into the ground, the same general foundation plan will work successfully.

A Bit of Shorthorn History.

Hanging in the office of Prof. C. S. Plumb, head of the Department of Animal Husbandry of the College of Agriculture, Columbus, O., is a copy of the pedigree of Rose of Sharon, one of the most noted Shorthorn cows of American history. This historical bill, the gift of Almer Hegler, Washington Court House, O., represents probably the first type of printed pedigree published in this country. Rose of Sharon was bred by Thomas Bates of England, one of the first men to take up cattle breeding as a science, and the man to whom Shorthorn breeders of today are greatly indebted for the excellence of the breed. She was a roan heifer, calved August 12, 1832, and imported to the United States in 1834 by the Ohio Importing Company, the original cattle importing company of America. Mr. Hegler's grandfather was one of the stockholders of the company, and this pedigree, with some others, was found in an old piece of furniture, and was donated by the finder to the University.

The farm crops of Kansas in 1911 amounted to more than one-third of the world's gold production for the same time.

Those who "pull fodder" pay twice for the feed they get—once in the labor of pulling and once in the decreased yield of corn.

Plow Right and Dry Weather. Won't Ruin Your Crop!

When the weather gets blistering hot and for days and weeks not a drop of rain falls, the only thing that can save your crop from burning up is moisture brought up from below.

Now, if you've plowed right and the top soil lies flat on the subsoil, with no air spaces between, your crop is safe. For moisture comes up freely by capillary attraction—just like kerosene comes up the wick of your lamp.



AIR SPACE

But if, in plowing, the furrows are kinked and there are air spaces between top and subsoil, moisture cannot come up. And your crop is ruined.

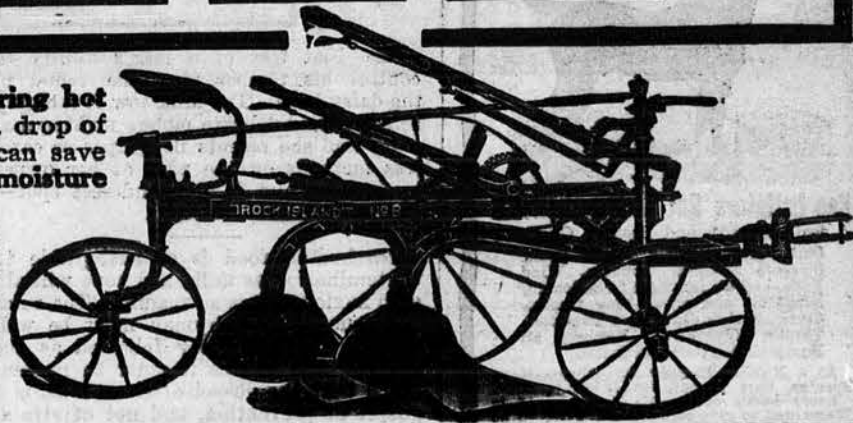
Guard against drought by using a Rock Island (C. T. X.) Universal Plow—the only plow that turns over each slice flat and smooth, without kinking.



NO AIR SPACE

It will do it in any field on your farm—on tame sod, stubble, corn land, meadow or trashy land—in gumbo, heavy clay, sandy loam or mixed soil.

Moreover, with a "Universal" you can plow deep—as deep as any practical



Note the peculiar corkscrew, auger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping and turns clear over, partly pulverizing the soil and burying all trash completely. No spilling over into the furrow or slopping forward onto the land. Lightest draft and easiest on the horses of any plow made. We control the shape of these mouldboards and they cannot be had on any other make of plow. Has more up-to-date features than any other plow, besides the great exclusive advantage of the Universal Bottom. For full description see our free book, called "The Plow as a Manure Saver" (pages 11-15). Write for it.

farmer cares to go—and that is an additional safeguard against drought.

The Rock Island (C. T. X.) Universal Plow is the only plow that does perfect work on any kind of land and in any kind of soil—the only plow that protects against drought and so pulverizes the soil as to save a lot of harrowing and allows manure to mix thoroughly with soil.

Priced Right

We own and control all patents on the world's only Universal plow, but

we are not taking advantage of the buyer. Our prices are right. Ask any independent implement dealer.

The Rock Island Universal Plow can be bought for about the same money that you would pay for a commonplace plow. Yet its value is many times that of any other.

Write! Send us name and address on a postal. Get the story of the Rock Island Universal Plow in complete form. You will also learn the price and be given an opportunity to inspect one of these wonderful, all-purpose plows. Please put your R. F. D. number on postal. (39)

The Rock Island (C. T. X.)
Universal Plow

Rock Island Plow Co., 243 Second Avenue, Rock Island, Ill.

ELECTRIC LIGHTING WITH THE "Chloride Accumulator"

is the one certain way of properly illuminating your grounds and buildings. The "Chloride Accumulator" used in connection with an Individual Electric Lighting Plant makes your light instantly available without starting your engine. During the day you can use your engine to run your farm machinery, simply connecting it with the dynamo for a few hours at any convenient time. The "Chloride Accumulator" stores up and retains the electricity until light is needed, and you have merely to touch a switch to send white, clear, brilliant light flashing to any desired part of your farm. No annoying starting of the engine at the moment light is desired. No risk of its breaking down at critical moments. The "Chloride Accumulator" assures you perfect light on the instant.

Look into the matter of Individual Electric Lighting Plants equipped with the "Chloride Accumulator". They occupy but little space, are in no way complicated or dangerous, and the cost is small. Our nearest Sales Office will gladly send you our interesting book, "Electric Lighting Plant Book." Write for a copy.

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We will pay you the highest prices on your hides and furs. We build our business by giving every man a square deal. We charge no commission. We send you a check the same day shipment is received. We treat you right. The house that has been successful for 25 years could not stand if it did not satisfy its shippers. Try us and see. Write for full list and tags. See quotations on market page.

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This is good stuff. We guarantee it to please you. Our supply is limited. Price, shelled and graded, per bushel, \$2; in the ear, crated, per bushel, \$2.50.
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Alfalfa Timothy Millet Cane Clover
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Is absolutely pure Clover seed, the finest grown. Experts clean and test every bag of PEPSECO BRAND Seeds. They are bound to produce heavy crops free of noxious weeds and therefore bring you big returns. Insist upon having PEPSECO BRAND Seeds—Alfalfa, Clover, Timothy, Cane, Millet and Kentucky Blue Grass. Sold by 4,000 dealers from New York to California. If your dealer can't supply, write us. **FREE** Book, containing valuable information about Alfalfa, Clover and other seeds. Illustrated. Also Weed Bulletin. Sent free on request.
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If you are thinking of building a SILO, send for our big Free Booklet. Crammed full of live, valuable information for farmers and stockmen. Most complete of its kind ever published.

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Caustic Balsam****Has Imitators But No Competitors.**

A Safe, Speedy and Positive Cure for
Curb, Splint, Sweeney, Capped Hock,
Strained Tendons, Founder, Wind
Puffs, and all lameness from Spavin,
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Cures all skin diseases or Parasites,
Thrush, Diphtheria. Removes all
Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism,
Sprains, Sore Throat, etc., it is invaluable.
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Warranted to give satisfaction. Price \$1.50
per bottle. Sold by druggists, or sent by ex-
press, charges paid, with full directions for
its use. Send for descriptive circulars,
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They pay profits no other gets. Produce
unequaled cream. Wear a lifetime. Keen
business men, trained to watch profits, use
Tubulars exclusively.

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ter Jennings, Stearns & Fish, Geo. H. Earle,
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and Boise, and others too numerous to mention,
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gacity and success, use and endorse Tubulars.

Dairy Tubulars contain no
disks. Double skimming
force. Make you extra pro-
fit. Write for catalog 165

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I have opened up a breeding and
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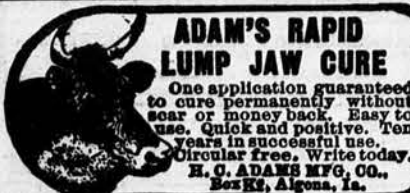
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of Gates. Send for our
big, handsome four-color
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Money, Time and Freight.

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Kafir Corn Chop, Linseed and Cotton-
seed Oil Meal, **OTTO WEISS CHICK
FEED** and all other kinds of feed manu-
factured by the Largest and Best Alfalfa
Feed Plant in the state. Send for cir-
cular.

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One application guaranteed
to cure permanently without
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DAIRY

The best test of a man's ability to
control his temper is to be found in
the dairy barn. The milk cow is a highly
sensitive and delicate money making ma-
chine and she resents ill temper or care-
less methods on the part of her owner
by kicking him in the tenderest spot—
the pocketbook.

No human food is so susceptible to
contamination as milk, and none will ab-
sorb noxious odors so readily. The rules
of a successful dairyman must be well
learned and as rigidly followed as the
gospel. But in this it must be remem-
bered that the gospel of clean milk is a
gospel of prevention, and not of strain-
ing.

The percentage of butter fat in milk
depends almost entirely upon the indi-
viduality of the cow. The breed has
something to do with it, of course, but
not so much as the individuality. Feed
cuts no figure. It is possible to in-
crease the flow of milk by proper feed-
ing, but not the percentage of butter
fat. The Babcock test is the only means
by which this percentage can be deter-
mined, and this is a good thing to use
before purchasing dairy stock.

The dairy farmer who makes his head
do the larger share of the work instead
of his hands is generally the one who
has a little extra feed to sell in the
spring, and then does not sell it. His
careful methods have enabled him to
store a sufficient supply of feed to carry
him through the winter and have a sur-
plus in the spring, but he realizes that
if he sells his surplus he will be re-
moving fertility from his land, so he
uses it at home, where it is manufac-
tured into milk or pork. In this way
he gets a higher price than he would
receive on the market for his surplus
feed and at less cost for labor.

After a good many years of use and
its general popularity, there are some
people who do not yet know how to
handle the cream separator. During the
winter months perhaps less attention is
given to cleaning the separator than
during the summer months because, in
colder weather it does not get "smelly"
so quickly. The contamination is there,
just the same, and even more attention
should be given to the cleaning of the
separator in the winter than in the
summer because of this very fact. In
the cold months, too, the separator
should be warmed up by having hot
water run through it before the milk
is put in. There is no other way to
get good separation.

A subscriber calls attention to the
fact that the milk from his Holstein
cows is perfectly sweet and good, with
a fine flavor, but that the butter which
is made from it attains a strong odor
after a number of days. The sanitary
conditions about the barn and dairy
are good and there seems no reason to
suspect that the milk became contam-
inated through these. The cows are not
due to freshen until late in March, and
the only solution to the rank flavor
which develops in the butter seems to lie
in the fact that these cows have been
receiving a ration which contained nub-
bins of wormy corn. The ration is com-
posed of alfalfa, Kafir which was only
partially headed, and corn nubbins. Do
any of our subscribers have a similar
experience which would lead them to
suspect that wormy corn could be blamed
for the rank odor which appears in the
butter after it has stood for a number
of days?

In all the talk which we hear about
the high cost of living, there is one
fact that stands out prominently. The
cost of necessities is not excessive when
these are properly handled. It is the cost
of luxury for which we pay. Formerly,
we took our market basket and went to
the stores to buy our dinner. Now we
demand a telephone and a delivery wa-
gon instead. Time was when we used to
walk or ride horseback on our errands of
business or pleasure; now we take a street
car or own an automobile because we have
to hurry.

We need these things and cannot get
along without them, but we ought not
to forget that we must pay for them
if we have them. There is one item
of food cost, however, which has always
remained cheap, even though the price
is higher than formerly. Milk selling at
8 cents a quart is the cheapest human
food that can be bought. It is nearly
a perfectly balanced ration and contains
more of the elements demanded in our
food supply than any other one article.

The whole art of dairying is com-
prised in the word comfort. Make the
cow comfortable and keep her comforta-
ble and she will do the rest. If her milk
flow varies, if she gets off her feed, if
she kicks, it is because she is not com-
fortable for some reason, and the fault
is your own and not hers. It is notice-
able that milk farmers and dairymen
who get the big pay checks are the men
who have succeeded in making their
cows comfortable. Some men object to
the work of the dairy—being tied to a
cow's tail, as they term it—but every-
one who earns his living is tied to some-
thing. The work of a dairy is no harder
than other lines of work; in fact, it is
much easier than very many. It is not
the hard work of a dairy that keeps
people out of it, but the necessity for
careful and sanitary methods, without
which no dairyman can succeed. Young
men will leave the farm to drudge in
offices, machine shops or as railroad train
men, where they always work under di-
rection rather than secure larger wages,
with even a competence in the dairy
business, where they are compelled to
be careful and cleanly.

Dairy Cow Wonderful Food Producer.

How much do we appreciate the fact
that a good cow is the most wonderful
producer of food on earth? A Holstein
cow at the Agricultural College of Ne-
braska produced in one year 18,540
pounds of milk which contained 13½ per
cent of solids, or a total of 2503 lbs. of
nutriment for the support of life, equal
in every way to the finest beef. Think
of a steer producing in one year that
amount of flesh net, no waste in it. This
cow produced ten times the food equiv-
alents of a first class steer. A first
class beef steer dresses out 55 to 60 per
cent of his live weight and then there is
considerable waste from bone which can-
not be eaten. This cow was the equal
of three steers, and after providing three
times as much human food as a single
steer the cow herself was still doing
business at the old stand.

Study in Farm Economics.

A man wrote: "Just stop a moment
and consider carting a ton of hay fifteen
or twenty miles to market or feeding it
upon the farm and carting a tub of but-
ter to market. They are about equal in
value and note the difference in cart-
age."

Then ex-Gov. Hoard, the premier
dairyman of the world, wrote: "There
are a lot of such questions in farming.
The field of farm economics is a big
one and no man that we have yet seen
has written a book on it that will go to
the farmers' judgment and understand-
ing. What a grand thing it would be
if we could have a book that would put
questions in such sharp contrast as the
above. We don't need to have rhetorical
Columbiads loaded up and fired off.
Rifle shots like the above are better."

Advantages of Milk Records.

There are other reasons for keeping a
record of each cow's production besides
that of knowing the total and the rela-
tive production of each cow in the herd.
One of these is to keep informed as to
the grain required. In case the ration
is one quite rich in protein, as it should
be where the roughage is mainly alfalfa
or clover hay or ensilage, or both, the
grain feed can usually be figured at one
pound of grain for each three to four
pounds of milk. In case the dairyman
is trying to do as good work as he con-
veniently can, this calculation is not bad,
providing the feeder keeps a very close
watch of each animal to see that it is
neither growing poor nor getting off on
the feed. A watch on the milk sheet

**Van Pelt's
Cow Book Free**

Professor Van Pelt's Cow Demonstration
Lecture in Picture and Print—only book of
its kind. People are going wild over it. 88
pages—40 full-page pictures of world's
champion dairy cows with Prof. Van Pelt
working over them. Tells how to judge
cows—pick out calves—select sires—breed
up the herd—Jam full of dairy cow truths
that have cost Prof. Van Pelt a lifetime of
labor and made him the world's foremost
dairy authority. Every cow man needs it—
so does his boy. Thousands sold before book
was off the press. Colleges using it for text
book.

How to Get the Van Pelt Book

Cut out this advertisement (or mention
this offer) and send \$1—bill, draft, money
order, check—and get Kimball's Dairy
Farmer, the national semi-monthly dairy
magazine, three full years and the Van Pelt
book absolutely free. (Add 50 cents for
Canadian and \$1 for foreign subscriptions.)
If you are not satisfied after receiving the
paper and book, we will refund your money.

Wm. H. Caldwell, Secretary American
Guernsey Cattle Club, Peterboro, N. H.—
"A most interesting and valuable guide.
Should be in the hands of every one inter-
ested in the dairy cow."

F. B. Keeney, owner of the world's cham-
pion long-distance cow, Jacoba Irene—"More
definite technical knowledge of the dairy
cow can be learned from that book than I
had gathered in a considerable experience
extending over the last 15 years."

R. B. Young, Holstein breeder, president
Iowa State Dairy Association, Buffalo Cen-
ter—"It should be a text book for every
student of dairying and a Bible for the cow
man."

Kimball's Dairy Farmer

401 Commercial St. WATERLOO, IA.

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Cream Separators**

**\$21.50 and
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We sell direct at Wholesale
Prices and save you one-
fourth to one-half your money.
"Jones' Jewel" is the best
value for the price ever
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Separator. We allow

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FREE TRIAL**

To demonstrate, and prove,
that the "Jones' Jewel" is
the easiest running, best skim-
ming Separator made. If you
do not find it so it doesn't
cost you a penny, and we pay
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AND UP-
WARD
AMERICAN
SEPARATOR**

THIS OFFER IS NO CATCH.
It is a solid proposition to send,
on trial, fully guaranteed, a new,
well made, easy running separa-
tor for \$15.95. Skims hot or cold
milk; making heavy or light
cream. Designed especially for
small dairies, hotels and private
families. Different from this pic-
ture, which illustrates our large
capacity machines. The bowl is
a sanitary marvel, easily cleaned.
Gears thoroughly protected.
Western orders filled from
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dairy is large or small, write
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free catalog. Address:

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SILOS**

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

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Manhattan, Kansas

BOWSER SWEEP MILLS

Different from all others. Grind Corn with
shucks. Kaffir in the head and all kinds
of small grain. 4 and 8 horse sizes.
(Also make 10 sizes of belt mills)
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Increased Horse Power
Humor your horses by properly padding their collars and they will repay you with better work. Ventiplex Pads are the kind to use, because they are made of ventilated fabric, which allows a free circulation of air under the collar. This keeps the shoulders dry and cool, preventing galls and sores.

You can use your horses every day. Ventiplex Pads wear longer, prove more satisfactory, and cost no more than other kinds. You will be glad you bought one.

Most dealers have them, but if yours has not, send us his name and we will forward a sample quickly. Patented Sept 20, 1910.

Our folder will interest you. It is free for the asking. What is your address? We also make the famous "Stay-On" Blanket.

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Johnson Has a Book All Ready To Mail To You

Why not send postal card to Johnson, the Incubator Man of Clay Center, Neb., and get a copy of the latest issue of his wonderful incubator catalog. It is different from all other poultry books—it is written by Johnson himself, who has had 17 years experience in manufacturing more incubators than any other makers in the world—\$25,000 already sold and in the hands of successful users. Johnson writes the book himself—it is bigger than the ordinary book—out of the ordinary. Has 300 photographs, together with valuable information for the poultry raiser. Johnson knows how to make a machine that everybody can have a big success with—that accounts for his tremendous sales of **Old Trusty Incubators**.

Let Johnson's 325,000 satisfied customers be the guide to your success—write for his book—let him tell you how much less than \$10 he will sell an Old Trusty.

Write now to **M. H. JOHNSON**, The Incubator Man, Clay Center, Nebraska.

Built Exactly 30 to 50 days. Free Trial. Freight Paid. E. of Rockies.



Build Your Silo
Of Denison's Hollow Clay Blocks

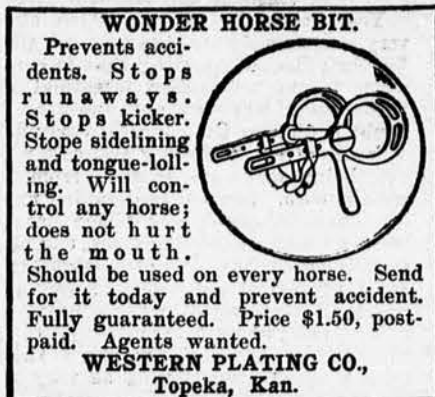
You will then have an Everlasting Silo, the best in the world. Cheap as wood. Fire proof, wind proof, frost proof. Requires no paint or repairs. Thousands built last year. Every one satisfactory. Endorsed by experts. Recommended by leading agricultural colleges.

Valuable Silo Book and Sample Blocks Free.

Denison's silo blocks made in 3 styles, angle cut or curved for 4-5 and 8 inch walls. Made of finest shale clay hard burned, free from lime and defects.

Free book tells all about them. Ask your dealer to see the blocks. If he has none tell him to write us. We will send you samples.

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515 Hustley St. - Mason City, Iowa.

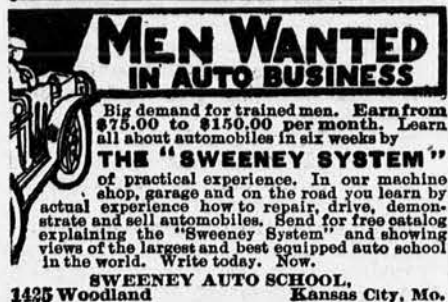


WONDER HORSE BIT.

Prevents accidents. Stops runaways. Stops kicker. Stops sideling and tongue-lolling. Will control any horse; does not hurt the mouth.

Should be used on every horse. Send for it today and prevent accident. Fully guaranteed. Price \$1.50, postpaid. Agents wanted.

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MEN WANTED IN AUTO BUSINESS

Big demand for trained men. Earn from \$15.00 to \$150.00 per month. Learn all about automobiles in six weeks by **THE "SWEENEY SYSTEM"** of practical experience. In our machine shop, garage and on the road you learn by actual experience how to repair, drive, demonstrate and sell automobiles. Send for free catalog explaining the "Sweeney System" and showing views of the largest and best equipped auto school in the world. Write today. Now.

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to operate and repair automobiles in our fully equipped modern shop, giving training in vulcanizing, drill press and lathe practice, qualifying you in six weeks. Address **Lincoln Auto School,** 2354 O St., Lincoln, Neb.

LAWRENCE Business College
Lawrence, Kansas.

Positions secured. Our big illustrated catalog explaining everything is FREE. Address 1444 Mass. St.

is also necessary to determine if there is any undue shrinkage. Where the sheet is kept at hand all the while, one may notice any change and may thus be able to prevent some loss.

The herd record is a barometer on the herd and on each individual cow. Some cows will make much better use of their feed than others. It pays to know which these are. On some cows the grain ration can be cut down without decreasing the milk flow or will not give enough milk to pay a profit on the feed in excess of a certain amount.

Make the Cows Pay.

"There is no sense in keeping cows and milking them just because they happen to be on the farm. There is little satisfaction in simply taking care of cows as a chore. If there is not at least a fair remuneration for feed and labor all the sentiment in the thing is spoiled," says the Blue Valley Bulletin.

"For the next few months the prices of dairy products will be higher than for the rest of the year. The work on the farm is not so pressing as during the summer months and there is ample time to devote to the cows. If it pays to feed and care for them at all it pays much better to feed and care for them better than they are being fed and cared for on some farms. The man who gives his cows a short ration will give them little more than enough to provide bodily maintenance. What he saves in grain represents the feed that would be used by the good cow in making returns. It is impossible to induce the cow to give returns before she provides for her own wants. She will use all the food she needs before she will begin to pay for any of the feed she gets. From now on is the time of all the year when the cow should be given plenty of good feed and receive good care. She can rustle for herself much better during the other six months of the year. The wise farmer will make his cows produce just all the high-priced butter they are capable of producing."

Building and Filling Silo (Continued from page 5.)

sure, the cement wall must be treated in such a manner that the walls are absolutely impervious to air. Then, too, a sufficient amount of reinforcement must be included in the walls to strengthen same sufficiently so that they will readily withstand the pressure to which they are subjected by the silage. The popularity of silos constructed of cement has been greatly augmented by the fact that structures of this order are apparently unaffected by severe drought or winds. In filling silos of this order, the same precautions must be used as were suggested in case of the stave silo.

Corn grown for the silo should be one of the native varieties, rather than a large southern variety, as native corn tends to develop a larger percentage of ears, and consequently makes a better grade of silage. The proper time of cutting the corn is when practically all the ears show indentations on all the kernels. Should the corn crop show signs of drying up, however, due to peculiar weather conditions, the forage should be placed in the silo when the lower leaves begin to dry up. In filling, the corn should reach the cutter in as green and succulent a state as possible. This means, the corn must be hauled from the field immediately after cutting. Preferably, a corn binder should be used in this work, as the corn, when tied in bundles of a convenient size, tends to facilitate the work.

Whenever possible, it is to be recommended that three or four farmers get together and purchase an ensilage cutter. This greatly decreases the initial outlay and has proved a most satisfactory plan to follow.

The actual cost of filling the silo, when all labor used in the work was considered, varied from 40 to 76 cents per ton, with an average cost of 56 cents.

Concrete Silo in Hill.

A South Dakota subscriber asks if it is practicable to build a concrete square or rectangular silo in a sandy hill. Such a structure will make a silo. The first silos this editor knew anything of were built in the ground and walled with stone and cement plastered. They were not economically built structures and did not keep the silage well because they were too small. A 20 x 20 x 40, which subscriber proposes to build, one-half above and below ground, is good dimension, but should be built round instead of square.

DE LAVAL

CREAM SEPARATOR

NEW AUTOMATIC OILING

The most important Cream Separator improvement since the introduction of the present type of De Laval machines.

The new automatic oiling De Laval Cream Separators are now being supplied in all sizes, and this improvement constitutes another great step forward in cream separator construction—the one thing possible in betterment of the previous De Laval machines of the present type.

The new system of De Laval automatic oiling is distinctively different from any other splash or spray system in that there is a constant regulated feed of fresh oil and discharge of used oil. Other splash systems use the same oil over and over, until it soon does more harm than good.

In the new automatically oiled De Laval machines all gears, shafts and bearings practically float in a mist-like spray of oil and literally never touch each other during their operation.

De Laval agents will be glad to exhibit the new machines and demonstrate the working of the new automatic oiling system, which more than ever enhances De Laval superiority in every feature of cream separator practicability.

THE DE LAVAL SEPARATOR CO.

NEW YORK CHICAGO SAN FRANCISCO SEATTLE



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"IT'S UP TO YOU," IF THEY ARE NOT." READ THIS AD.

Your hogs will be sure to be thrifty, grow and fatten well, with a saving in feed, by keeping all quarters clean, giving clean feed and water, and making regular use of the greatest **Intestinal Germicide, Conditioner and Worm Destroyer** ever discovered. Keep the hogs clean inside as well as outside.

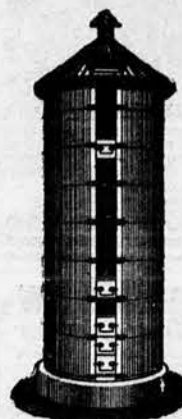
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TWENTY YEAR PROVEN HOG SAVER.

On the market 20 years. The stand-by of thousands of farmers and breeders. A guaranteed, (money-back guarantee), Preventative and Cure for Cholera, Swine Plague and Swine No Worms. Fever. Unequaled as a Conditioner and Worm Destroyer. Has saved and made more money for hog raisers using it than any other remedy ever on the market. Cheapest in cost to use and most effective for results. Cholera has never been known on a farm where it has been regularly used. Ask your dealer. Or if no dealer has it in your neighborhood, write for our liberal proposition to breeders for agency connections. You can't invest a postage stamp to better advantage.

UNGLES HOGGETTE CO., BOX K, LINCOLN, NEB.

What Silo Shall We Buy? UNADILLA SILO



The Unadilla is the latest and greatest improvement in silo construction. Adjustable door abolishes all door troubles for all time. Perfect-fitting doors with air-tight joints as long as the silo lasts.

UNADILLA SILOS STAY AIR-TIGHT.

Don't buy until you know about the Unadilla, King of Silos. Write for our Silo Book, sent postpaid.

DEAL-RICE LUMBER CO., Des Moines, Iowa, 501 Clapp Block

The Champion Silo

3 Special Propositions That Save You Money

Besides giving you the best silo I am ready to make you the best proposition ever offered you.

Proposition No. 1 is for the man who wants only one silo.

Proposition No. 2 for the man who wants silo and cutter.

Proposition No. 3 for a club of farmers in one community who each want a silo.

Now is the time to get busy. Write and tell me which proposition you are interested in. I will do the rest.

Is Made For You and Other Western Farmers.

Fills every requirement better than any silo made. Last year it was ahead of all; this year again it leads with modern improvements. Has interlocking steel frame, redwood, non-shrinking, non-swelling doors, one piece latch, round steel anchors and many other important improvements not found on others.

Write for Free Catalog.

I have my new one all ready to send you. It's full of valuable silo and feeding facts. It tells different ways of feeding ensilage. It tells all about the Champion and guarantee silo. Address **Ketter J. Bell, Mgr., Western Silo Co.** 135 11th St., Des Moines, Iowa. Successors to Silo Dept., Farmers Co-operative Produce Co.



From an old print in La Telegraphe Historique.

Napoleon's Visual Telegraph The First Long Distance System

Indians sent messages by means of signal fires, but Napoleon established the first permanent system for rapid communication.

In place of the slow and unreliable service of couriers, he built lines of towers extending to the French frontiers and sent messages from tower to tower by means of the visual telegraph.

This device was invented in 1793 by Claude Chappe. It was a semaphore. The letters and words were indicated by the position of the wooden arms; and the messages were received and relayed at the next tower, perhaps a dozen miles away.

Compared to the Bell Telephone system of to-day the visual tele-

graph system of Napoleon's time seems a crude makeshift. It could not be used at night nor in thick weather. It was expensive in construction and operation, considering that it was maintained solely for military purposes.

Yet it was a great step ahead, because it made possible the transmission of messages to distant points without the use of the human messenger.

It blazed the way for the Universal Telephone service of the Bell system which provides personal intercommunication for 90,000,000 people and is indispensable for the industrial, commercial and social progress of the Nation.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy One System Universal Service

MANURE SPREADER

55 Bushel Box
30 DAYS FREE TRIAL
\$39.50

ENDLESS CONVEYOR, made of angle steel, cannot rot, break or warp. Has force feed which can be controlled by hand lever. Spreads thick or thin as desired. Perfect distribution. Box is made of hardwood, solid bottom over which the all-steel apron conveyor runs. Operated from driver's seat by two hand levers. No "PEERLESS" MANURE SPREADER gears or cogs. **"PEERLESS" WILL LAST A LIFE-TIME.** Force-Feed Head forces manure to rear of box. When box is clear, the machine is thrown out of gear. Put this Spreader on your farm for 30 days trial and you will be fully convinced that our co-operative price will save you from \$40.00 to \$60.00 over **FREE CATALOG OF FARM IMPLEMENTS.** If you want to save money on all farm implements, write for our Free Implement Catalog, describing this "Peerless" Spreader in detail, as well as hundreds of other big bargains on which we give you high-grade machinery at wholesale prices. Send for this free catalog TODAY.

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14-in. Double Board Steel Beam Steel Handle Plow
With Extra Share and Best 13-in. Rolling Coupler

12-in. Complete \$10.50
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The entire plow and extra share made of the best of hardened, soft center steel, highly tempered and polished in oil. Guaranteed to be entirely satisfactory, or it can be returned at our expense and money refunded. This is a special price for a short time only, and is made for the purpose of clearing your order now to avoid the rush.

BIG FREE CATALOGUE NOW READY
Write now and tell us what you want, and we will send you prices delivered at your railroad station. All freight charges prepaid. Above plows with wood handles. 24" each line.

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A responsible Plow Factory, backed by forty years' experience selling direct to the farmer at wholesale prices.

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DON'T spend your money for gall remedies—don't lose the service of your horses on account of galls or sore shoulders. Here is a collar which if properly fitted, absolutely cures all such ills, while the animal works. It is collar and pad combined.

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Made of best duck, heavy leather trimmed. Wears like iron. Stuffed with medicated absorbent cotton. Soft and flexible, fits any shape neck, absorbs sweat, keeps shoulders cool and healthy. The best collar known to use on colts and tender neck horses. Over 1,000,000 sold yearly. Insist on having the cotton-filled Lankford—none genuine without the picture of the goat and goat. If your dealer does not handle, send us his name and ask for free memorandum booklet which also tells all about the collar. Price, \$1.25.

POWERS MFG. CO., Dept. 28 :: :: Waterloo, Iowa.

LIVE STOCK



A man should be grateful even to his enemies when they open his eyes to a sense of his own faults and failures.

Until we raise all the hay we need for our stock, and have all the stock and all the manure we need, it will pay us to save the whole of the corn crop.

The silo is the greatest weed destroyer known. The corn harvester will bring in quantities of weeds which are cooked into ensilage and their seeds destroyed. The weeds do not hurt the ensilage, and the destruction of their seeds will do more to clear the fields than the plow can.

A cow brute is the same and requires pretty much the same kind of feed, whether she be beef or dairy. It is all in the use she makes of this feed. If dairy bred, she fills the pail. If beef bred she produces steaks, but in either case she does her best on June grass, and ensilage is the nearest to June grass of anything in nature or art.

The silo has been in use in Europe for several hundred years, and has become a fixture there which is deemed just as necessary as are the other farm buildings. It has been in use in America by dairymen for many years, but only recently has its value for other kinds of stock become appreciated. Ensilage is good feed for all classes of farm stock, but especially valuable for cattle and sheep.

Corn is simply a big grass, and cattle do their best on grass. Ensilage has much the same nature as grass and affects cattle in the same way. In fact, the same results can be had from feeding ensilage in winter that are obtained on blue grass pasture in summer, and on very much less land. This is one of the economies of the silo. A large crop of the best of green feed can be preserved from a relatively small amount of land.

When the farmer handles his corn crop in the usual way he actually wastes 40 per cent of it. The feed value of the corn crop is only 60 per cent in the ears, and this is practically all that is saved. Weathered corn leaves and stalks have about as much feeding value as pine shavings, while that which has been placed in the silo is all made into the best of feed. Its fiber is softened and the process of manufacture makes of it a feed that is second only to June grass.

When a farmer has his silo filled with ensilage he not only avoids the painful operation of hauling in shocked fodder in bad weather, but he avoids all risk of death among his animals from cornstalk disease. No matter what causes this disease it eats into the profits at a rapid rate and no man can afford to risk it who can possibly afford a silo on his place. The silo will pay for itself many times over in feeding operations and will absolutely insure you against loss from cornstalk disease or other forms of impaction and indigestion.

Alfalfa is one of the best feeds in the world, but it is not a balanced ration. Alfalfa and ensilage make a nearly perfect ration. Corn and ensilage is fine. Oil meal or cottonseed meal and ensilage is practically as good. Just because ensilage is a splendid feed it must not be understood that it is a complete feed. Animals will live upon it if the corn ears have been cut into the silo, as they should always be, but they will not do their best in the production of meat, mutton or milk. Some concentrated feed is necessary for this.

Ensilage is "sour crout," "canned goods," or whatever you like to call it, that has been partially cooked by its own heat into the best artificial food known. Corn, Kafir, milo, alfalfa, all make good ensilage, though corn is the best. Ensilage made from immature corn is likely to become sour and have a lower feeding value. The corn should be well matured—in the dough stage—when cut for silage and it should be rapidly harvested and placed in the silo as soon as it is ready. If the season

is very dry it may be necessary to wet it and this may be done by running a stream into the blower or elevator or by pouring it directly into the silo. It must have water enough to cause it to heat and cure and when the corn is green enough the addition of water is not needed.

Beef producers who live on high priced land can no longer afford to be without the silo. Dairymen have known the advantages of feeding ensilage, and beef producing farmers are fast learning. The past dry and hot summer and the present severe winter have done more to drive home the value of the silo than anything else could have done in the same length of time. The cattleman—whether beef or dairy—who could feed silage last summer when the pastures were burned and the water scarce had a big advantage and made money, and the cattleman who can feed warm, succulent ensilage during this stress of weather is making money now.

It has been recently said by a very prominent authority on agricultural topics in the corn belt that a revolution in cattle feeding was to take place with the erection of silos in all the cattle feeding yards of the country. This revolution is now rapidly taking place. Probably no previous year has seen the erection of as many silos as has the year of 1911. Very few progressive farmers have not heard of read of the great benefits to be derived from the silo, but many have hesitated about investing in one. The fact, however, that of the hundreds of feeders who use silage for fattening cattle, practically none fail to speak in most gratifying terms of their appreciation of its value, should be excellent proof of the economy of the silo for beef cattle.

Missouri Feeder Likes Silage.

A Missouri feeder, a son of the lately deceased millionaire farmer, David Rankin, of Tarkio, is an enthusiastic believer in corn silage as an ideal ration with alfalfa for fattening steers. At present he has some 20 earloads of steers in his yards. His experience, covering several years, convinces him that silage is both the cheapest and best ration that the corn belt cattle feeder can have.

Ensilage for Sheep.

Years ago, shepherds used to object very strenuously to the use of silage for their flocks, asserting that it caused colic, scours and other intestinal disturbances of one sort and another. No doubt it did, for the silage of early days was an extremely watery and acid product, being made, as it was, from immature corn. Since silage making methods have improved, and silage has become a dried, sweeter product, one practically never hears a complaint registered against it for sheep feeding purposes. Feeders all over the country are using it, and using it extensively. Silage intended to be used for sheep should be cut up extremely fine, as they will not eat coarse feed.

It is best to start in feeding silage rather lightly, say half a pound or so per 50-pound lamb daily and then gradually increase this amount until 2 pounds are being given. Some of our best feeders use as high as 3 pounds per hundred weight daily, and with good results. It is recognized that clover or alfalfa is the best hay for sheep feeding purposes, but as there is very little of either in the country this year, you may be forced to use just the ordinary timothy or upland hay. Of this, about 1 pound per hundred weight daily should be fed. In selecting grain to feed with silage one should aim to get some of the protein concentrates if possible as the ration is likely to be too carbonaceous in nature to produce the best results. Oil cake and cottonseed meal are the most common protein foods suitable for sheep. These may be mixed with screenings or farm grains. The feeder, who sees the flock frequently, and who knows how much actual gain there is in his silage, can determine the amount of grain he should feed daily better than can an outsider. This varies from 2½ to 3 pounds.

SILO EXPERIENCE (Continued from page 2.)

\$3.50 for teams, \$2.25 for single hands, \$40 for engine, \$40 for cutter, coal, feed, board, and every item of expense is carried up in full.

I am feeding 70 head of yearling steers, 10 spring calves, 5 cows, 20 horses and mules. I also feed hogs, a flock of Rhode Island Red chickens, and am getting more eggs than we ever did before. It is impossible to tell how well I like this feed. I am feeding cattle 10 pounds twice a day, and only straw for roughage, and they are just coming fine.

At the time I bought the silo I did not know what to do with my cattle. I had bought them in spring when high and cattle were being shipped out of this country so heavily that the market was demoralized. I could not sell and had not feed enough to feed them half way through, and no one had any to sell. Prairie hay is selling at from \$8 to \$10 per ton in stack, alfalfa \$12 to \$16 per ton in stack, and if a ton of this silage is not worth more than prairie hay I will agree to eat a ton of it. Then besides all this, if I were to feed this same 40 acres of corn in the shock I would waste all the stalks and a part of the corn at 60 cents per bushel. The hogs don't get it all and muss up the fodder.

Say, what would I do this morning if I had to go out in the field and haul fodder, with a six-inch snow on and still snowing hard? Instead I just hooked up to the feed wagon and in 30 minutes two of us had a ton of feed loaded, the snow shoveled out of bunks, the feed in, and 70 head of yearling steers lined up eating, and they won't waste two pounds. This is both gratifying and a satisfaction. I can't tell it all.—P. D. SPOHN, Inman, Kan.

A Serum Demonstration.

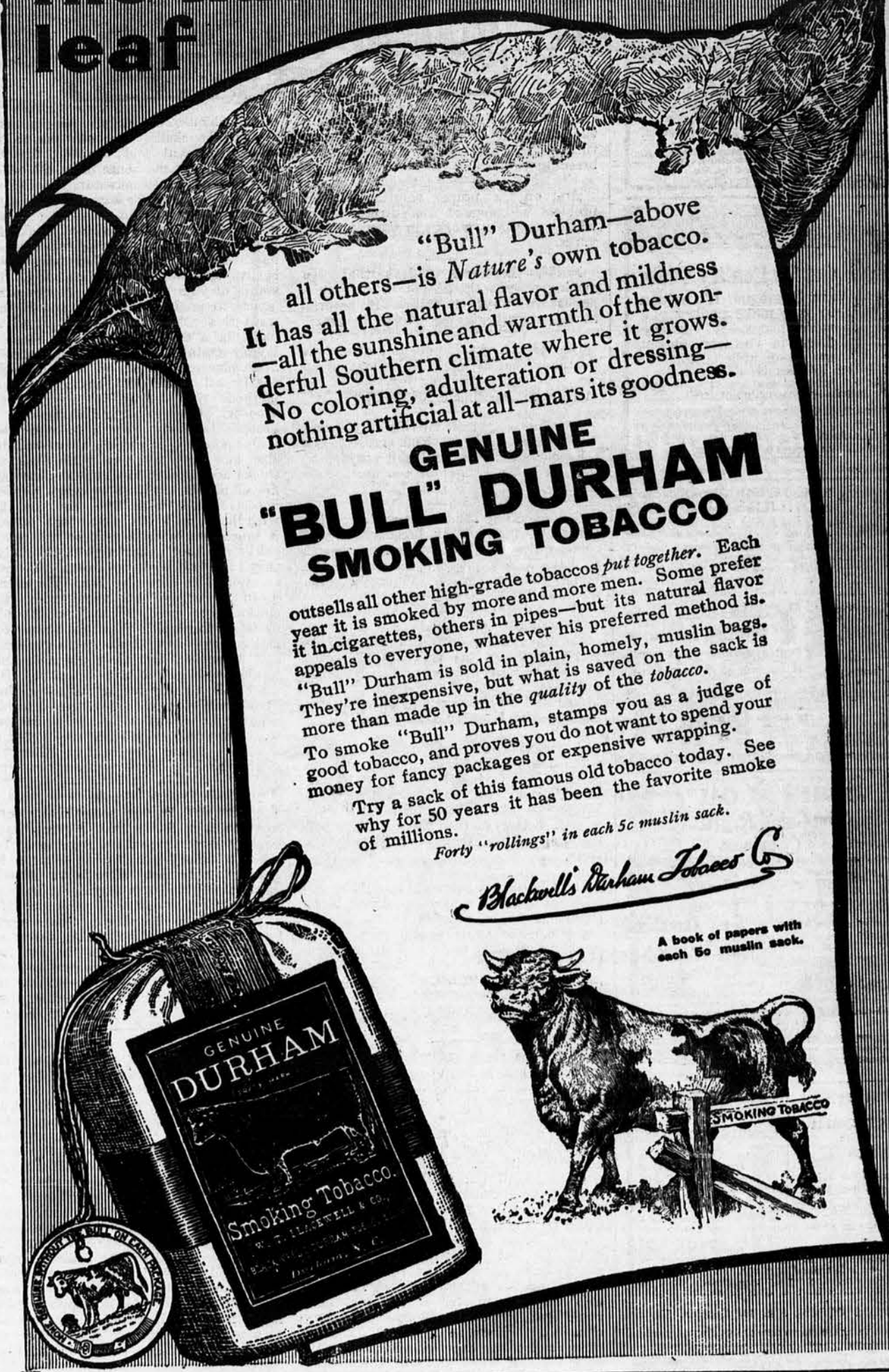
Many a knocker knocks without investigation. That is what is the matter with 90 per cent of those who knock on anti-hog-cholera serum. The recent annual institute of farmers at the Agricultural College gave the long desired opportunity to run down a few of these knockers. It happened in the new pavilion. Dr. F. S. Schoenleber, state veterinarian and head of the veterinary department at the college, was giving a demonstration showing how to use anti-hog-cholera serum. In the audience was E. D. King of Burlington, a hog raiser who has used much of the serum; also in the audience was a man from Smith county, a hog raiser who had used much serum, but unsuccessfully, and he had in mind a complaint, some of which he had recently given publicity in a Smith Center paper.

When the time came for questions Mr. King, who knew of the "knocker's" presence, arose in his place and said: "This is the place and now is the time to ask questions about this great preventive. I have always believed and indeed I know from experience that if a man uses this serum properly before his hogs are sick, it will save them from the cholera. There is a man in this audience who has said much against serum and against some other scientific ideas and methods. I should like to hear from him."

As Mr. King was looking directly at the man from Smith county, there was little doubt whom he meant. Dr. Schoenleber invited anyone to ask questions, and finally got the Smith county man to talk. It developed that when he had used the serum his hogs were already sick, and, as might have been expected, it did not help him. His story brought out other experiences and question. In fact the little conference proved to be one of the most important of the week. Kansas has two million hogs and much cholera, and it pays to know what to do and when. When the meeting adjourned, the Smith county man went home with a better feeling toward the serum and toward the college generally.

Jean Troutman, who is managing 1500 acres near Council Grove and has among other live stock several hundred hogs, said this: "Too many farmers try to save the veterinarian's fees when cholera appears. Many do not buy the serum until numbers of their hogs are sick, and then without any previous experience try to vaccinate their hogs themselves. It doesn't take many hogs to represent \$50, about what a veterinarian would cost. Some day our farmers will apply this serum without a veterinarian's aid, but at present there are not many who can do it. The serum worked satisfactorily in my drove of hogs, but it was used before they became sick. I often wonder why men condemn some things about which they know nothing."

The natural leaf



"Bull" Durham—above all others—is Nature's own tobacco. It has all the natural flavor and mildness—all the sunshine and warmth of the wonderful Southern climate where it grows. No coloring, adulteration or dressing—nothing artificial at all—mars its goodness.


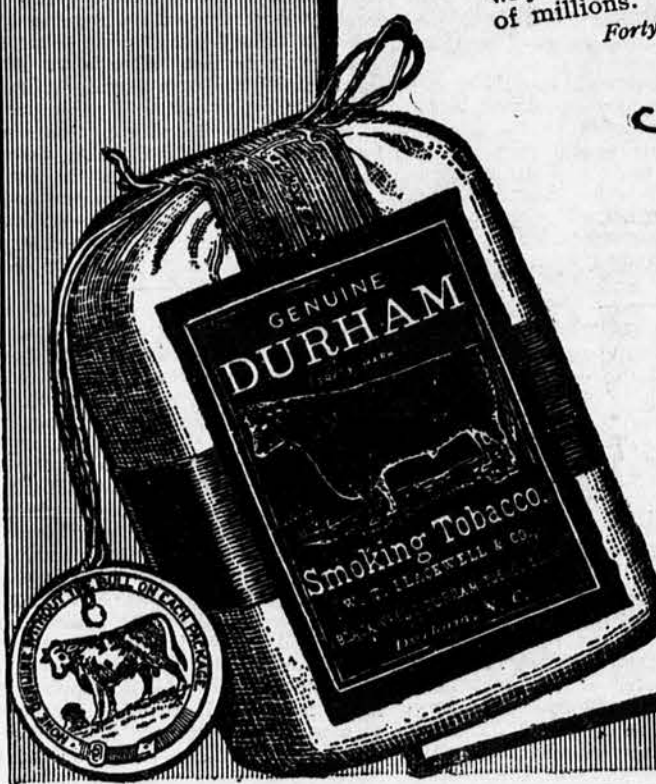
GENUINE "BULL" DURHAM SMOKING TOBACCO

outsells all other high-grade tobaccos put together. Each year it is smoked by more and more men. Some prefer it in cigarettes, others in pipes—but its natural flavor appeals to everyone, whatever his preferred method is. "Bull" Durham is sold in plain, homely, muslin bags. They're inexpensive, but what is saved on the sack is more than made up in the quality of the tobacco. To smoke "Bull" Durham, stamps you as a judge of good tobacco, and proves you do not want to spend your money for fancy packages or expensive wrapping. Try a sack of this famous old tobacco today. See why for 50 years it has been the favorite smoke of millions.

Forty "rollings" in each 5c muslin sack.

Blackwell's Durham Tobacco Co.

A book of papers with each 5c muslin sack.

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THE PAPEC



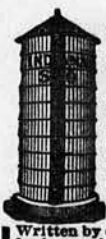
Here's the only blower ensilage cutter that can be depended upon to do good work under all conditions.

PAPEC PNEUMATIC ENSILAGE CUTTER

Cuts and elevates silage with less power than any other cutter. Easy to set up and operate; no wood to twist and warp; elevates over 50 feet without clogging. Write for booklet, "How to Prepare Ensilage," FREE.

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Will be saved this winter to the 15,000 users of Indiana Silos. Are you getting your share? There is another winter coming. Our best salesmen are the 15,000 Indiana Silos now in use.

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and Catalogue. It's written to help make poultry pay more profit. A message direct to you from Queen money-making customers.

It also tells all about the wonderful Queen incubators, brooders, supplies, etc. The only book describing construction in detail.

Queen Hatchers are Famous everywhere. They are making poultry a real business. Ask for a copy of my book. It's free.
WICKSTRUM, QUEEN INCUBATOR MAN
Box, 28 Lincoln, Neb.



This Month Jim Rohan's

POULTRY BULLETIN tells the latest facts of the year on how you can make the most money raising chickens. Get it. Send your name on a postal. Get the real World's Championship Ship Facts from Jim Rohan, Pres., Belle City Incubator Co.



\$7.55 Buys Best 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-egg hot-water brooder, \$4.95. Both ordered together \$11.50. Freight prepaid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time.

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My World-famous high-quality incubators and brooders, and my Free Poultry Lessons make success easy and sure for you!

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are made right and with the free advice and lessons I give my customers no one can possibly fail to make the biggest hatches of strongest chicks. Write me. A postal brings all facts, book, prices and proposition. "Proper Care and Feeding of Chicks, Ducks and Turkeys—sent for 10c." J. B. Gillett, Pres., Des Moines Incubator Co., 83 Second St., Des Moines, Iowa



White Plymouth Rocks

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GOOD TO EAT
GOOD TO VIEW**

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.

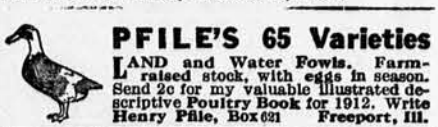
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The incubator that is making chick hatching a science. "Open front poultry house" plan of ventilation openings at the eggs. Heat, moisture and ventilation regulated and apporportioned automatically. Send for latest book, free. Write us for mating list and prices on S. C. White Leghorn stock and eggs from the Mandy Lee farm.
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SCOTCH COLLIES—BARRED ROCK COCKERELS.

The choicest pedigreed stock. Also, 300 Barred Rock cockerels. Catalog free. Mrs. Florence B. Ziller, Hiawatha, Kan.



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and furnish rig and all expenses to introduce our guaranteed stock and poultry products; money-back guarantee; outfit free; steady work. Address BIGLER CO., X 674, SPRINGFIELD, ILLINOIS

WANTED—POULTRY; WILL PAY HIGHEST market price. Write or phone. Wise & Smelser, 1127 Kansas ave., Topeka, Kan.

POULTRY



Now that the show season is over, the thoughts of the poultry breeder turn to the problem of mating up his breeding pens.

And on the proper solution of this problem will depend the success of the whole season's work in the poultry yards.

It is, therefore, evident that the mating process should not be done in a haphazard way, or failure is assured at the very beginning of the season.

One of the most frequent and serious mistakes that is made while mating up the pens is the breeding together of too many poor specimens of poultry.

In other words, the cutting out process is not severe enough. You may cull out the poor specimens, and cull again, and yet not be in danger of too much culling.

Severe culling sometimes grates on the nerves of the poultry breeder and becomes quite a task, but it is much better to have a few prime specimens of the breed than a great number of the mediocre kind.

This might necessitate the purchase of a high priced bird in order to correctly mate up the pen, but the price of such a bird will be returned to the purchaser a hundred fold in the way of better and more evenly balanced chicks and a satisfaction that satisfies.

A general habit of poultry breeders is to mate birds with glaring defects to those not having those defects, hoping in this way to modify such defects. While this is all right, in a general way, a still better method is not to breed from any birds that have glaring defects.

It is hardly necessary to tell the intelligent breeder that disqualified birds should never be allowed in the breeding pen. For experimental purposes it might be all right to breed a disqualified bird just to see whether he transmits his peculiarities to his offspring or not. But he should be an exceptionally good bird in several sections, even to experiment with.

These are the days when we receive numerous letters inquiring which is the best incubator. It ought to be obvious to most persons that we could not pick out any one incubator and call it the best, and still be consistent and honest with all incubator manufacturers that advertise with us. Suffice it to say that we believe all the machines advertised in KANSAS FARMER will do good work. Some are higher priced than others because they are made better and will last longer. Some are hot air machines and others are hot water incubators. Some people have a preference for one kind, others for the opposite. The best way to decide the matter of the best machine is to write for all catalogs of machines advertised in KANSAS FARMER, then read what the manufacturers say of them and what users of them have to say of their efficiency, and be guided accordingly.

As to the desirability of owning and running an incubator, there is hardly two opinions these days of progressive policies. If you desire early chicks, and all the breeders of large varieties want them, you must have an incubator wherewith to hatch them. The old hen won't sit and hatch eggs until she gets ready, and that is not until she has laid her clutch of eggs. If your hens are extra good layers it takes them all the longer time before they get ready to hatch chickens, and yet it is chickens from these good layers that you want to perpetuate your strain of good layers. But you can't hatch them without an incubator. With an incubator you are not forced to depend on the whims and moods of a setting hen as to the time of incubating your chicks. You can start at your own time and quit when you get ready. With a hen you must set her when she says so, and she will

ofttimes quit before the chicks have broken the shell. You can set an incubator in real cold weather, for you can place it in the house or in the cellar, but the hen must necessarily be set in the poultry house or barn, and the eggs are often chilled and sometimes frozen under her. Great numbers of chicks are impossible when depending on hens to hatch them, for when you call on the hen to do the hatching you curtail the source of your egg supply. You need the layers to produce the eggs, and if they want to set, you can break them of the habit in a few days and get them to laying again. As to the advantages of a brooder over a hen in raising chicks, nearly all those who have tried both methods will declare in favor of the brooder. One great advantage in a brooder is that you can have quite a large quantity of chicks, all of uniform size and age, whereas with hens the chicks are hatched at different dates and are of all sizes. With brooders you are not troubled with lice as you are with hens, and the percentage of loss is much less with a brooder where the chicks are kept under control, than when they are allowed to roam all over creation with a cranky hen. We do not mean to imply that those who raise chicks in a brooder have no troubles or trials to perplex them, for they have, and must give the chicks extra good care and attention, but no more than they would be obliged to give in looking after after half a dozen setting hens and their broods. If you have never used an incubator or brooder we would advise you to try one this season and see if you do not have better results than with the setting hen.

Frosted Combs.

As we are having some real winter weather it is likely that a great many poultry raisers are having some of the same trouble I am having—frost bit combs and wattles. Here is the remedy I use, and I find it a success: One teaspoonful of turpentine, 2 tablespoonsful of lard; mix well and apply once a day for three or four days. Also, throw all the wood and coal ashes in the hen house. It is good to keep the lice and mites in check and consumes all the dampness that accrues from the droppings.—JAMES HOLLOWAY, Galva, Kan.

New Professor of Poultry at Manhattan.

Poultry matters at the Kansas State Agricultural College have been in a quiescent state for some time, in contradistinction to the activity of the Missouri State College poultrymen. But a change has been recently made at Manhattan and an enlargement of the scope of the poultry department. Heretofore it has been an adjunct of the dairy department, but hereafter will have a department of its own, with a full professor in charge. Prof. W. A. Lippincott, a graduate of the Iowa State Agricultural College and of the poultry course at Cornell University, has been selected to take charge of the poultry department at Manhattan. Professor Lippincott has made for himself a national reputation as a poultry expert while he had charge of the poultry department of the Iowa State Agricultural College, and with a larger and better field there is no doubt but that he will uphold his reputation at Manhattan.

We expect to give readers of KANSAS FARMER some experimental data from the professor's pen from time to time as he progresses in his poultry experiences.

Tid-Bits for the Hen.

With eggs scarce and prices soaring skyward it pays to cater to the appetite of the hen. Try to please her in this way and she will repay you a hundredfold. Save the table scraps for her eating. Milk is a favorite drink with her, and very helpful in egg production.

The apple and vegetable parings will make a palatable dish when cooked and thickened with corn meal or bran. The outside leaves and refuse parts of cabbage heads, chopped up, may be fed as a relish.

She also likes beets, and is quite fond of squash, as she and a number of her kind persisted in pecking holes into ours

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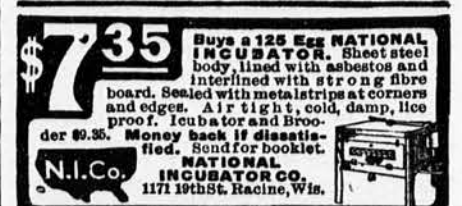
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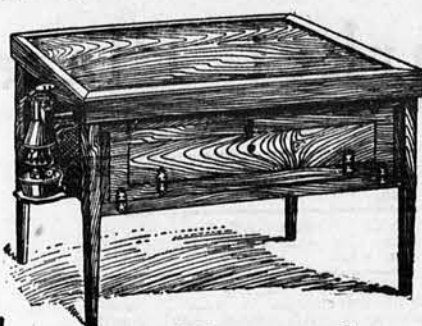
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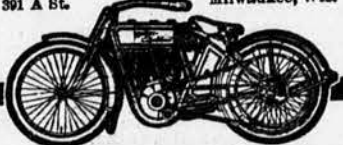
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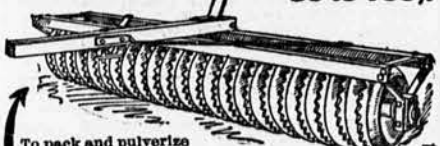
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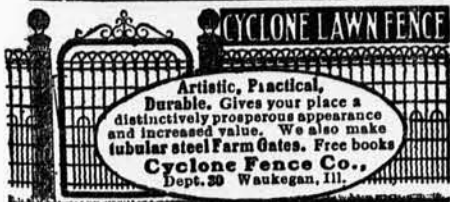
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last fall and devouring them greedily. This was while they were yet in the tender-shell stage, however. The seeds of either pumpkins or squashes should not be given to poultry.

Corn is a splendid ration for cold weather, but wheat and oats should vary the bill of fare. Scatter the grain in straw and watch them scratch for it. The exercise is necessary for their well being.

If rabbits are plentiful, as they are here, why not kill two birds with one stone by ridding yourself of the marauders and at the same time supply meat for your flock? Remove the fur and let them pick the meat from the bones, or with a sharp knife trim closely, cut into bits, and see them scramble for a morsel as you toss them out.

Did you ever notice how much water it takes to appease the thirst of chickens? But they are sensible in that they will not drink ice water unless so compelled. They prefer it with the chill taken off, but not hot. See to it that they have plenty of grit, and with an eye open to business the egg basket will not long be empty.—MRS. C. K. TURNER, Fowler, Kan.

Why Bone is Valuable.

Hens require lime to make egg shells, and while there is a small amount of lime in the composition of all grain it is not there in sufficient quantity to make the shells needed to cover the eggs. Something, therefore, must be given the hens to make egg shells. This is frequently furnished in the shape of lime, or old plaster or oyster shells. But even with these accessories hens frequently lay eggs with soft shells. This is because there is still something lacking in order to make the shells hard. Green bone fed to hens supplies this lack. The mineral matter fed to chickens in bones is also valuable in the development of their own bones and in growing their feathers, and even in the making of their flesh. But more than anything else is the protein element the hen gets from the bone for the making of the body of the egg.

Grain feeding alone will not answer for this purpose, because grains are deficient in this protein element. The bone therefore is a most valuable supplementary food. It enters into the making and growth of all the fowls and affords them an excellent tonic. But it is especially valuable for the hens. It makes sure of the eggs. The best thing about it is that fresh bones are to be had in greatest quantity in winter time when most meat is eaten, and that is the time when hens require bone the most, because they cannot get the insects they feed upon in summer time. Then, also, are eggs worth the most money.

Perhaps no other one thing you can do for your poultry, that costs so little money or labor, is so valuable to all the fowls, as supplying them with fresh, raw bone.

In writing about the beneficial qualities of raw bone for making egg shells we have said nothing about the beneficial results that accrue to the flock by the eating of the meat that is on these bones, for raw bones have more or less meat on them. Raw meat is invaluable in egg production and better than all the egg foods and egg compounds that can be given to the laying hen. Nothing will start a hen to laying sooner, or keep her at it longer, than a generous ration of raw meat two or three times a week. To cut green or raw bone properly a bone cutter is necessary and it will pay for itself in a very short time in the reduction of the feed bill and the increased number of eggs produced when the hens are fed this stimulating and nourishing food. If you have no bone cutter, the chopping of the bones with an axe is the next best way and, though tedious and laborious, it will pay to do it.

Where raw bones are difficult to get one must fall back on the commercial crushed bone as sold in poultry supply houses. There is a great difference in the quality of the crushed bones that are for sale. Some are as dry as dust, with all the fat and nutriment steamed out of them, and are not much better for the fowls than oyster shells, though three or four times greater in price. You can generally tell by the looks of the bone whether it is good or not. If it has an oily, greasy look, it is generally all right. If it is dry as summer dust it will not pay to pay 2 or 3 cents a pound for it.

People who buy thing cheap generally get cheap things.

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MALE HELP WANTED.

WANTED—MEN IN EVERY TOWN IN Mo., Kan., Ill., Neb., Okla., Ark. to take orders for nursery stock. Outfit free. Cash weekly. National Nurseries, Lawrence, Kan.

500 MEN 20 TO 40 YEARS OLD WANTED at once for electric railway motormen and conductors; \$60 to \$100 a month; no experience necessary; fine opportunity; no strike. Write immediately for application blank. Address Box 120, care of Kansas Farmer, Topeka, Kan.

SITUATION WANTED.

WANTED—TO RENT FARM STOCK and tools on shares. Will furnish one team. References furnished. Ben Johnston, Chapman, Kan.

WANTED—A GOOD PLACE ON A FARM by the month, with church privileges, by married man. Address J. F. Thomas, Miltonvale, Kan.

WANTED—WORK ON THE FARM BY the month in northern or western states; 10 years experience; have good references. Address J. L. Tailmon, El Dorado Springs, Mo.

CATTLE

FOR SALE—GOOD POLLED DURHAM bulls. Also, one wanted. C. M. Albright, Overbrook, Kan.

JERSEY CATTLE, COLLIES, POLAND Chinas and White Wyandottes; Scotch collie puppies for sale, females. U. A. Gore, Seward, Kan.

FOR SALE—NINE HEAD CHOICE Shorthorn bulls, 3 pure Scotch, 6 Scotch topped, 12 to 18 months old. Harry T. Forbes, Route 8, Topeka, Kan.

FOR SALE—THIRTY HEAD OF CHOICE fawn colored Jersey cows, 3 to 7 years old, fresh and fresh soon. O. N. Himeburger, 307 Polk St., Topeka, Kan.

FOR SALE—PURE-BRED HEREFORD bull calf, 11 months old. O. A. Bradley, 916 Alabama St., Lawrence, Kan.

HOGS.

FOR SALE—O. I. C. FALL PIGS, BRED sows and gilts; best of breeding. Henry Murr, Tonganoxie, Kan.

DUROC HOGS, WHITE AND BROWN Leghorn chickens, bronze turkeys. J. M. Young, Fall River, Kan.

BARGAINS—EIGHT TRIED POLAND China sows, shoats, either sex; buff rocks; one female collie puppy, fancy markings. All best breeding. F. H. Barrington, Route 3, Sedan, Kan.

PURE BRED POULTRY

TURKEYS.

WHITE HOLLAND TURKEYS—TOMS, \$4; hens, \$2. S. F. Crites, Florence, Kan.

W. H. TOMS, 18 LBS. AT 5 MO., EACH \$5. Cora Trapp, Wa Keeney, Kan.

BOURBON RED TURKEY GOBBLETS for sale. Emma Avery, Woodston, Kan.

FOR SALE—MAMMOTH WHITE HOL-land turkeys, sired by a 45-lb. tom. Miss Lillian Schaal, Lexington, Mo.

MAMMOTH BRONZE TURKEYS FOR sale; extra fine; priced reasonable. Write at once. Mrs. H. Matthews, Tesco, Kan.

FOR SALE—WHITE HOLLAND TURKEY toms. While they last, \$4 each; choice birds; weight from 20 to 25 pounds. Lee Brothers, Harveyville, Kan.

MAMMOTH BRONZE AND WHITE HOL-land turkeys; scored by Branch; won all firsts at Higginsville. Mrs. E. B. Powell, Higginsville, Mo.

MAMMOTH BRONZE TURKEYS, WIN-ners at Kansas State Show; and registered Scotch Collie pups for sale. I. P. Kohl, Furley, Kan.

HORSES AND MULES.

SHETLAND PONIES—WRITE FOR price list. Chas. Clemmons, Coffeyville, Kan.

PERCHERON STALLIONS, MARES AND Jacks for sale by E. B. Leinbach, Nicker-son, Kan.

TWO IMPORTED STALLIONS—SHIRE and Percheron, 6 and 7; one home-bred shire, 3. All sound, high quality. James Auld, Wakefield, Clay County, Kan.

FOR SALE—A FINE BLACK GRADE Percheron stallion, 6 years old; also three good 14½-hand Jacks, very cheap. Call on or address J. M. Davis, Bronson, Kan., R. F. D. No. 2.

DOGS.

WOLF DOGS FOR SALE. O. V. EVER-ley, Glasco, Kan.

COLLIES: 100, PUPPIES, BROOD bitches and broke male dogs. W. R. Watson, Oakland, Iowa.

MISCELLANEOUS.

FOR SALE—25,000 hedge posts. H. W. Porth, Winfield, Kan.

NEW HONEY IN 60-LB. CANS, \$5; PER case of 2 cans, \$9. John M. Ruyts, Carlsbad, N. M.

\$800 "WEBBER" BABY GRAND PIANO for school or lodge, \$135; ask terms. Merchants Storage Co., Topeka.

AGENTS WANTED—Nice business. No capital needed. \$25 to \$300 weekly profit. Write quick. Either sex. Address, A. I. Dexter, Springfield, Mo.

WANTED—\$12,000 STOCK OF GENERAL merchandise for good farm near here. Price \$17,000; mortgage, \$4,000. A. W. Bremeyer, McPherson, Kan.

STRADIVARIUS VIOLIN FOR SALE—Excellent sweet tone. Miss Bertha G. Mardis, Route 5, Rosedale, Kan.

ELECTRICITY, PLUMBING, BRICK-laying, painting and decorating taught by practical instruction. Positions secured for graduates. Write for illustrated catalog. Coyne Trades School, Chicago.

SEEDS AND PLANTS.

GENUINE RED TEXAS SEED OATS—First crop of seed direct from Texas. Recleaned and sacked, 75c bushel. Sample free. S. G. Trent, Hiawatha, Kan.

BUYING ALFALFA SEED? BUY THE best, \$8 per bushel. Send for sample. C. Markley, Belle Plaine, Kan.

RED TEXAS SEED OATS FOR SALE—1911 crop, brought from Texas, March, 1910. Grown here two years. Recleaned and graded. Sample with price, mailed free upon request. Warren Watts, Route No. 1, Clay Center, Kan.

FOR SALE—PURE-BRED TEXAS SEED oats. Recleaned, sacked, f. o. b. Florence, 75c per bushel in lots over 10 bushels. Those oats took first premium at Hutchinson State Fair, 1911. A. Rahn, R. 1, Florence, Kan.

1,000 BUSHELS PURE KANSAS SUN-flower seed corn. This corn is pronounced O. K. by corn experts and is as good as the best. Write for prices. A. L. Brooke, Grantville, Kan.

SEED CORN FOR SALE—CAREFULLY selected and graded. Reid's Yellow Dent, Shenandoah Yellow, Yellow 90-Day Corn, Light Yellow 85-Day Corn, Boone County White Corn, White Elephant, Imperial White, Iowa Silver Mine, Extra Early 85-Day White Dent, Red 90-Day Corn. Everman & Everman, Gallatin, Mo., Route 5.

BROODERS.

MAKE YOUR OWN CHICKEN BROOD-ers. Send 25c and I will send you my book of plans, telling you how to make brooders at a cost of 90c each, heating apparatus included; heated by lamp. D. L. Roush, 210 E. Laurent St., Topeka, Kan.

BARRED ROCKS OR OTHER BREEDS of poultry. Eggs for hatching or baby chicks are quickly sold for a small cost through a little ad in these columns. Write for special low advertising price.

THE STRAY LIST

J. E. TARBET, COUNTY CLERK, GRANT County. Taken up, on the 23rd of December, 1911, one horse, 12 hands high, weight 700 pounds; color brown; harness marks; appraised value \$25. Was taken up by Dr. G. H. Breaves, Doby, Sullivan Township, Kan.

J. L. SOURK, COUNTY CLERK OF NE-maha County. Taken Up—By C. M. Sourk, Goffs, Kan., on January 2, 1912, two steers, 2 years old, red, muleys; \$37.50 each.

STRAYED, NOVEMBER 11, ONE IRON gray mare, coming 6, blind in right eye. Earl Burger, Menlo, Kan.

BEST TAN

Globe Tanning & Mfg. Co.
222 S. E. First St., Des Moines, Ia.

You send us the hides; we will tan them and make into coats and robes

ALL OUR WORK GUARANTEED

Write for shipping tags and free catalog. :: :: :: ::

BEST TAN

Regarding Spoiled Silage.

Polk County, Iowa, subscriber asks if our reader at Ottawa, Kan., who reported silage slightly spoiled a few inches on outer edge of silo used a cement or concrete silo. We do not know. It is certain, though, that the silage in any silo must be well tramped on edges or it will slightly spoil. Silage does not settle so readily on the edge of silo on account of friction on the sides. Silage in a cement silo will spoil on the edges unless the cement or concrete is treated so as to make the walls impervious to air. This is done by brushing on a coat of pure cement mixed to a pasty stage, and should be done each year, as this thin coating chips off.

The Old, Old Story.

Our subscriber, J. M. F., Lone Star, Kan., writes: "Last fall I erected a silo, as did a few of my neighbors. Other neighbors felt sorry for us wasting our money and allowing ourselves to be led off with the thing. I was told the awfullest things about silage and of some fellows way off who lost a lot of cattle by feeding silage. One man told men that dairy cows down East somewhere had lost their teeth after eating silage the second year. Now, I am satisfied on all these things except ones. That of the teeth. Will some one that has fed silage, with three or four years' experience, tell what he knows about the teeth. As far as the rest of these objections go, give me more of the silage. It's good for the cows, hogs and chickens."

A whole lot of people dislike to see a neighbor try anything new, and will not try a new thing themselves because of taking stock in some wild cat story. Now, cattle eating silage may have died, and others may have lost their teeth, but the silage eaten was not, in either case, responsible. This issue of KANSAS FARMER has a lot of silo experience which indicates no bad results from silage feeding.

Steer Feeding Results With Silage.

F. C. Blinn, Madison, Kan., last fall fed 20 steers and kept close tab on the results, which he presents for the benefit of KANSAS FARMER readers.

The first seven days the steers were fed silage only and at the end of the week they were consuming 40 pounds each daily. At the conclusion of the first week they were fed 2 pounds of cottonseed meal each per day and at the end of the second week were eating 4 pounds daily each. Beginning with the third week each steer was fed 3½ pounds of corn and cob meal and at the end of the week were eating 11 pounds each daily. As the grain feed increased each steer ate less silage, and it is believed that at this time not more than 30 pounds of silage per day was consumed. With this feed good alfalfa hay was offered the steers, but they ate none of it.

When the steers were placed in the feed lot the average weight was 1,050 pounds, and they cost \$4.75 per 100. At the end of 60 days' feeding they averaged 1,226 pounds and sold in Madison to local dealers for \$6.20 per 100.

The feed bill was as follows: Two hundred bushels of corn at 60 cents per bushel costing \$120; 4,000 pounds cottonseed meal costing \$55; 7 tons silage at \$7.50 per ton costing \$52.50, or a total cost for feed of \$227.50. The gain was 3,520 pounds of beef, or a pound of gain cost a little less than 6½ cents. Each steer gained slightly less than 3½ pounds per day. The steers sold for \$1,520.86, and cost \$997.50, or a gain of \$523.36, and, deducting cost of feed, \$227.50, they were fed at a profit of \$295.86.

Twenty hogs followed these steers during the feeding period. The average weight of hogs was 100 pounds, and were worth, as feeders, \$6.50. The hogs weighed at finish 175 pounds each and were worth \$5.50 per hundred, but on account of the low market were not sold. Had the hogs been sold at this figure they would have shown a profit of \$7.50. The 20 hogs made a gain of 1,500 pounds. The hogs were fed nothing except what they picked up following the steers until at the end of 30 days, when they were given ½ bushel corn daily, consuming 15 bushels, worth 60 cents per bushel, or a total of \$9 worth of corn.

The total feeding operation showed a profit, if hogs had been sold same time as steers, of \$303.36. Mr. Blinn thinks the world of silage as a feed. He says it gave him as good results as alfalfa hay, which is worth fully two times as much per ton. The steers ate the silage from about six acres of very light, immature corn.

No-Rim-Cut Tires

Proved Average Oversize, 16.7%

Goodyear No-Rim-Cut tires are advertised as 10 per cent oversize.

We claim that this oversize adds 25 per cent to the tire mileage.

Lately we made a comparison, based on cubic capacity, with five other leading makes of tires.

And No-Rim-Cut tires, on the average, proved 16.7 per cent larger than the other tires of equal rated size.

Only three tires out of 20 comparisons came within 10 per cent of our size.

That means in air capacity, not in

mere outer measurements. It is air that carries the load.

Each one per cent oversize means one per cent extra carrying capacity.

Oversize means to save blowouts—to increase the tire mileage—to cut down tire expense.

And you get this oversize in No-Rim-Cut tires without any extra cost.

That is one of the reasons why these patented tires now far outsell any other type of tire.

Adopted by 127 Leading Makers

For the year 1910, 44 leading motor car makers contracted for Goodyear tires.

For the year 1911, 64 makers came to them.

For this year we have contracts from the makers of 127 leading cars.

That shows how car makers—the men who know best—have come to the Goodyear tires.

Last year our sales exceeded the sales of the previous 12 years put together.

We sold enough tires in 1911 to completely equip 102,000 cars.

In two years the demand for No-Rim-Cut tires has multiplied six times over. Now these tires are by far the most popular tires that are made.

Thousands of users told thousands of others that these patented tires cut their tire bills in two. The resulting demand now compels a capacity of 3,800 tires daily.

Save One-Half

The saving comes here: No-Rim-Cut tires make rim cutting impossible. With the old-type tire—the clincher

tire—23 per cent of all ruined tires are rim-cut. That is proved by actual statistics.

A punctured tire may be wrecked in this way by running 200 feet. A soft tire may be wrecked without puncture.

No-Rim-Cut tires save that ruin and worry.

Then 10 per cent oversize, under average conditions, adds 25 per cent to the tire mileage.

It means an overtired car to take care of extra weight. It saves the blowouts due to overloading.

And No-Rim-Cut tires, as told above, average 16.7 per cent oversize.

These two features together—No-Rim-Cut and oversize—under

average conditions cut tire bills in two. Tens of thousands of motor car owners have proved that.

No Extra Cost

These patented tires used to cost one-fifth more than other standard tires. Now they cost an equal price.

These tires which can't rim-cut cost the same as tires that do. These oversize tires cost the same as skimpy tires.

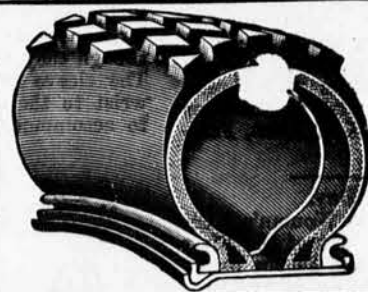
You can get them by simply insisting on Goodyear No-Rim-Cut tires.

These tires represent the final result of our 13 years spent in tire making.

In every way they are as near perfection as tires can ever get.

They will mean to you an immense reduction on the upkeep of your car.

Our new Tire Book is ready. It is filled with facts you should know. Ask us to mail it to you.



GOODYEAR
No-Rim-Cut Tires

With or Without
Double-Thick Non-Skid Treads

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO

Branches and Agencies in 103 Principal Cities. We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits

[43]

FREE TICKET TO THE KANSAS CITY LAND SHOW

We will entertain several hundred visitors at the Land Show, Colonists' and Tourists' Expositions to be held in Convention Hall, Kansas City, Mo., February 26 to March 9. If you wish to attend we will send you an invitation and FREE TICKET. We will furnish guides to conduct you through the Exposition. REMEMBER there is no expense to you for the invitation and ticket—WE furnish them FREE. Our sections will be the most attractive feature of the Land Show, our guests are requested to make it their headquarters and have their letters, telegrams, etc., directed care of our section. **FILL OUT THE ATTACHED COUPON** and mail it at once; our supply of tickets is limited.

THE GEO. H. PAUL ORCHARD CO., 500 North Main St., Pueblo, Colo., Chairman, Entertainment Committee.

Kindly send me an invitation and free ticket to the Kansas City Land Show, also particulars of your plan for entertaining your guests at the Show.

Name.....

Address.....

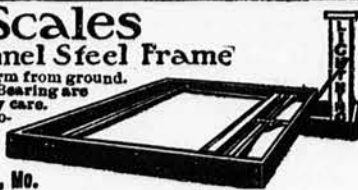
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New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This scale will last a life time with ordinary care. Equipped with compound Beam Frame. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity.

Write for our prices and description before buying. KANSAS CITY MAY PRESS CO., 129 MIN ST., Kansas City, Mo.



Four For You

We will make up set of four ferns from the following kinds: Boston, Whitman, Ostrich Plume, Elegance, Scott, Sprenger, Plumosa, Lace Fern.

Nothing is more beautiful for the home than ferns. We send you a beautiful collection of four ferns if you send us only 25 cents for one year's subscription to People's Popular Monthly and 15 cents additional (40 cents in all). Order today and you will receive the ferns charges paid. People's Popular Monthly, Dept. 10, Des Moines, Iowa

Fortunes in Inventions.

Every day you read about some man becoming very rich through some simple invention. Your invention may make you independent. Get it patented. I can help you. Send for my free booklet, "Inventors' Guide." This tells you all about inventions. Frederick G. Fischer, Pat. Atty., 307 Junction Bldg., Kansas City, Mo.

You run no risk to patronize persons or firms whose advertisements appear in Kansas Farmer.

Delicious Coconut Balls



An easily prepared dainty that every member of the family will enjoy.

BAKER'S Shredded Coconut

is made from the finest coconuts. It is shredded and ready for use. Coconut is very nutritious, supplies energy to the body. Write for Baker's Coconut Recipe Book—filled with delightful suggestions.

10 and 20 cent Packages
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SAVE THE COUPONS



The Kokyunt Kids are making Baker's Coconut famous.

The Seeds That Yield Are Sold by Field

Let me meet you, face to face, this year, through Field's Garden Manual—telling facts about garden-making that I've learned from years of contact with the soil. For I'm a grower myself—I grew truck before I began to sell seeds, and I've had real experience in doing both for over twenty years, and this Garden Manual of mine tells what I've learned.

Let's Get Acquainted Through My Book and Uncle Sam's Mail

Out here most live-wire farmers buy seeds of me because they've learned that I sell good seeds. If you haven't tried my seeds, I want you to do so this year, because I'm certain you'll keep on buying of me if you do. Don't let distance stand in the way—Uncle Sam's mails put us next door to each other, as it were. Just drop a card in the mail-box next time you pass it, and let's get acquainted.

HENRY FIELD, President
Private Desk 55
HENRY FIELD SEED CO.
Shenandoah, Iowa

Onions

The largest, best keeping, handiest Onions are produced from Northern Grown Seeds. Salser's Seeds are grown in the extreme North, are pedigree stocks, and for purity, vitality and yield are unsurpassed. Catalog tells.

MARKET SORTS, 12c.
The following are the three most popular sorts: One large package each White Portugal, Yellow Globe Danvers and Red Wethersfield, to test, 12c.

FOR 15c.
10,000 kernels of splendid Lettuce, Radish, Tomato, Cabbage, Turnip, Onion, Celery, Parsley, Carrot, Melon and Flower Seeds producing bushels of vegetables and flowers for 15c postpaid. Our Great Plant and Seed Catalog free for the asking. Write to-day. John A. Salser Seed Co., 226 S. 9th St., La Crosse, Wis.

GOOD SEEDS

BEST IN THE WORLD

New Crop Grown at Farmer Prices. In addition a lot of extra FREE SEEDS thrown in with every order.
BIG SEED BOOK FREE

Our Grand Big Illustrated Catalog of all Farm and Garden Seeds is now ready and free to you. Write for it today. Send names and address of neighbors who buy seeds. Address

RATEKIN'S SEED HOUSE
SHENANDOAH, IOWA Box 1

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 for illustrated catalog.

John D. Ziller, Hiawatha, Kansas.

Greenwood County Nursery.

We have for spring delivery a general line of nursery stock. Apple, crab apple, pear, cherry, plum, peach, apricot and quince trees, grape vines, berry plants, rhubarb, asparagus, roses, flowering shrubs, Catalpa Speciosa and Black Locust. Certificate of nursery inspection with each shipment. J. W. HINSHAW, Prop., Eureka, Kan.

50 Concord Grapes \$1 Hardy—Vigorous
10 Budded Cherrys \$1 Stock Guaranteed.
Buy from a house
that has a reputation for low prices and square dealing. Send for our Free Catalogue and 25c Due Bill.
FAIRBURY NURSERIES, Box 2 Fairbury, Neb.

10 CHERRY TREES FOR \$2.00 prepaid to all points in Kansas and adjoining states. Free catalog of other trees, berry plants, shrubs and flowers.
Holsinger Bros., Rosedale, Kan.

HOME CIRCLE



President Buchanan signed the bill on January 29, 1861, by which Kansas became the thirty-fourth state of the Union.

Two meanings of the name "Kansas," which is an Indian word, have been given. One is "Smoky Water" and the second is "Child of the Wind."

Roller oats left over from breakfast can be used to good advantage in the following way: While it is still hot, turn into an earthen dish to cool and form a mold as well. This can be sliced any desired thickness. Dip slices into a well beaten egg and fry until a light brown. Serve with maple syrup or with a syrup made of brown sugar.

How One Mother Interests Her Little Daughter in Housework.

I have a friend whose small niece, not yet seven years old, bakes her little loaves of bread and tiny cakes for tea quite often. Mamma of course oversees it all, but Dorothy does the work, and she is a very proud little miss when she spreads the cloth, arranges the plates and serves her own cookery. She sews for her dolly and hems beautifully, and the little buttonholes do her credit, testifying to painstaking care. The mother of this child is a very busy woman. There are two younger children, but Dorothy wants to help, and she never says, "You can't; you're too small, my dear," but "You may try."—Mrs. C. K. TURNER, Fowler, Kan.

Bread Helps for Cool Weather.

If those who are having trouble with their bread this cold weather will save out a cup of light sponge at each baking, put it in a fruit jar and stir in a tablespoonful of sugar, setting in a cool place till needed, then add this when setting bread in addition to other yeast, it will be a great help. Set jar containing sponge in warm place over night. Warm flour next morning with which to make up bread, and keep the dough from getting chilled until ready for the oven. The main thing is to keep it warm from beginning to finish. By adhering to these directions your bread should be all you can wish if the flour is first class.—Mrs. C. K. TURNER, Fowler, Kan.

For Kansas Day.

Being a member of the Woman's Kansas Day Club and president of the First Congressional District, and as the prime object of this organization is "to promote the collection and preservation of the early history of Kansas * * * and to instill patriotism in the minds of the Kansas youth;" further, being a citizen who loves Kansas, her climate, her soil and her splendid people, and believing that we do not as a whole take time enough to count the cost paid by the pioneer settlers of our beloved state for the freedom we now enjoy;

So, this fifty-first year of our statehood, I make the appeal to the teachers of our schools: Observe in some fitting way our state's natal day, January 29, 1912.

By way of suggestion allow me to say that the "History of Kansas," by Noble L. Prentiss, a book now in use in our schools, has all the information necessary for a good hour, or more, program. For instance:

A SUGGESTED PROGRAM.

Song—"America."
Recitation—"Walls of Corn," by Ellen P. Allerton, page 193.
Reading—"Independence Day in Atchison, 1804," page 16, paragraph 13.
Essay—"Twenty Years of Kansas History, 1861-1881," page 95, paragraph 138, to page 160, paragraph 249.
Recitation—"Opportunity," by J. J. Ingalls, page 296.
Papers—"Kansas of Today." Three 3-minute papers on "Resources," on "Educational Institutions," on "Literature."

"Battle Hymn of the Republic," by Julia Ward Howe.

This is merely suggestive, intended only to draw attention to the fact that we can thus perpetuate our Kansas story; that we, too, may be able to say in fervent earnestness:

"Lord of Hosts, be with us yet,
Lest we forget, lest we forget!"

Lest we forget our history, our traditions, our duties, our opportunities; lest we forget our forefathers and take no thought of the generations that are to come; lest we forget our heroes and our martyrs; aye, lest we forget the Pilgrims of Massachusetts and the Pioneers of Kansas.

And to further perpetuate our work as far as possible let all women interested assist teachers and pupils to make this or a similar program entertaining and instructive.

Yours for the best Kansas Day celebration,

Mrs. J. K. CODDING,
President W. K. D. Club, First District,
Lansing, Kan.

The following poem was written by an 11-year-old boy, Louis H. Eversole, after his teacher had announced that on the next speaking day she would like to have the pieces about Kansas:

KANSAS.

My heart beats for Kansas,
The state from which I come.
No other state can beat it,
Sweet flower of the sun.

I'm glad to be in Kansas,
To ride its rolling plains,
And view its towns and cities,
Or walk its country lanes.

I love the woods of Kansas,
The flowers and the trees,
I love to breathe their perfume
Swept on by softest breeze.

How sweet to lie in summer
By banks where brooklets run.
My heart beats for Kansas,
The state from which I come.

—Louis H. Eversole, age 11 years, 301 East Sixth Ave., Topeka, Kan.

9058.—Ladies' Work Apron, Sleeve Protector and Cap.

The three useful and practical articles comprising this set were made of plain percale. Excellent fit is given to the apron by the seams in the front that extend from the shoulders to the lower edge, and by darts at the sides. The straps are arranged over the shoulders, fastening to the belt in the back. Two large pockets are a useful feature, although they may be omitted if preferred. The sleeve protectors extend from the wrist to the elbow, and are full enough to accommodate the dress sleeve under-



neath. The pattern for the dusting cap may also be utilized for a bathing cap, using oiled silk for the making. Gingham, sateen, butcher's linen, chambray and Holland can be used for the making. For the medium size apron and sleeve protectors, 5½ yards of 36-inch material will be required, and ¾ yard for the cap. The pattern is cut in three sizes, 24, 28 and 32 inches waist measure. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.



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Endorsed by more than 450,000 progressive gardeners as the best ever

My new Seed Catalogue is a wonder. Contains everything in seeds, bulbs, small fruits and plants worth growing. 600 illustrations; 176 pages. Any gardener sending his name on a postal card can have it for the asking. Send for it today. Address

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1707-09-11 Filbert St., Philadelphia, Pa.

Send 5 cents (stamps) mention this paper, I will enclose in the catalogue a packet of the above GIANT pansy.

GROW GRAPES

It's easy and the arbors bear many years. Fruit sells well everywhere, is wholesome and delicious. Never enough on market to supply the demand.
Strong Concord Grape Vines Prepaid 10c

Yield quantities of luscious fruit. Best general purpose variety, hardy, healthy and dependable cropper. Try these vines. The biggest plant bargain of the season.

INTERESTING CATALOGUE FREE

Honest descriptions and illustrations make it a safe guide to good nursery stock. Learn all about our plants and methods. Send for book today!

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DEPT. 18 LAWRENCE, KAN.

GOOD SEEDS

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Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

CATALOG FREE

SAVE 1/2
TREES

You can get better trees at an enormous saving by buying direct of the grower. We pay freight. Apple—one year tops on three year roots, 80c per 10, \$70 per M. Other fruit in proportion. No agents. We guarantee satisfaction on every order. Will send you new Strawberry Plants, "Red Monarch," Free for testing, on request.

Galbraith Nursery Co., Box 58, Fairbury, Neb.

Special Prices On

Trees

Get our catalog before you buy. 1,200 acres in Nursery Stock, Fruit, Ornamental and Fruit Bearing Trees, Shrubs, Vines and Roses. Everything in the Nursery line. Free from all disease. Inspected by State Entomologist.

Elegant catalog free. See what values we give you. Direct dealing insures you first cost and full satisfaction. Write for free book now—today. Address
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Seeds

SILO CONSERVATION

Good Silo Hints by E. W. Curtis for Kansas Farmer.

Theodore Roosevelt's conservation movement, started several years ago, has had little actual interest to our western farmers until the last year or two, and it is evidencing itself by the purchase of silos. A silo is conservation—nothing more or less.

The use of a silo does not create additional feed, but it saves the feed the farmer grows on his field, and saves it in its most easily digestible, succulent and appetizing form.

The writer has had the privilege in the past year to talk to hundreds of farmers who have put up silos. We have not talked to a man but who was enthusiastic about silos and silage, and a great many of them had put up their silos somewhat in doubt as to their value, but taking the word of their more experienced fellow farmers who had tried them, that they were all right and a profitable investment.

We are impressed with several facts with relation to silos and their use under western conditions. In the first place, consideration should be given to the kind of crop to put in the silo; a great many of our farmers are now studying the problem of the balanced ration, and in feeding their live stock are using alfalfa hay, soy beans, cow-peas, cottonseed meal, oil cake, etc., to balance the ordinary carbonaceous foods grown on our western farms, such as field corn, Kafir corn, sorghum, etc.

It goes without saying that the corn or Kafir will for some little time be the most suitable feed to put into a silo, because of the large tonnage which may be grown per acre. This tonnage will vary from five to twelve tons under our Kansas conditions. Quite a number of farmers have already tried putting one alfalfa hay crop in the silo at the time that the corn crop is placed in the silo, and we have met a number of farmers who are also planting field peas with the corn. A farmer can buy an attachment for his planter which will plant these peas about 1½ inches from the corn grain, and they will grow together without reducing the tonnage of corn.

We would suggest that the farmer use the "Whip-Poor-Will" variety; it will not take over a peck to the acre. We recommend the "Whip-Poor-Will" cow-pea because it is a better climber than other varieties; it will go up the stalk, and in the fall can be harvested with the corn. Corn has an excess of carbohydrates, the peas are high in protein, and you can, by growing your feed in this way, prepare a balanced ration for your cattle next winter.

A suggestion regarding the filling of silos: Do not send a boy or the hired man up in the silo to tramp the feed, but the best man you have, preferably a man that weighs 200 pounds or more, and instruct him to keep moving, tramping the silage thoroughly, particularly around the edges. If this is done there will be no loss of feed whatever in the silo aside from a few inches on the top. This is of extra importance. A great many farmers advise that where they do not have a distributor that it takes two good men to thoroughly tramp the silage, and where a distributor is used one man will be sufficient.

Another matter: With the modern silo fillers a silo of average size can be filled in from one to two days. You will go out into the silo two weeks later and find that it has settled four to six feet. If you will plant next spring a little Kafir corn, which matures several weeks later than field corn, you can refill this top four to six feet and not lose that much of the value of your silo.

When filling the silo the first time and the second time you should pile it up in the center of the silo as high as you can.

The writer is making these suggestions with the idea of encouraging you to buy a silo, and with the certain knowledge that a silo will please you better if you understand the various matters discussed and will start right to grow your crop for filling the silo next fall.

We strongly recommend that you plant some of the "Whip-Poor-Will" field peas with your corn this coming spring, and that you have a few acres of Kafir corn with which to refill your silo.

We believe every farmer who buys a silo in Kansas in 1912 will be more than enthusiastic about it.



Don't Rob your Family for your Farm

Mr. Farmer, are you robbing your family of the things they ought to have, just to make more money out of your farm?

Will the boys jump at the first chance to leave home, or will they want to stay on the farm and make your old age pleasant?

Will the girls be glad when marriage takes them away from your roof, or will they be sorry?

Have you given your wife everything she needs to make a real home for you and your family?

These are things to think about before it is too late.

You are a busy man, of course, and your mind is full of plans for next season's work, and the money you expect to make.

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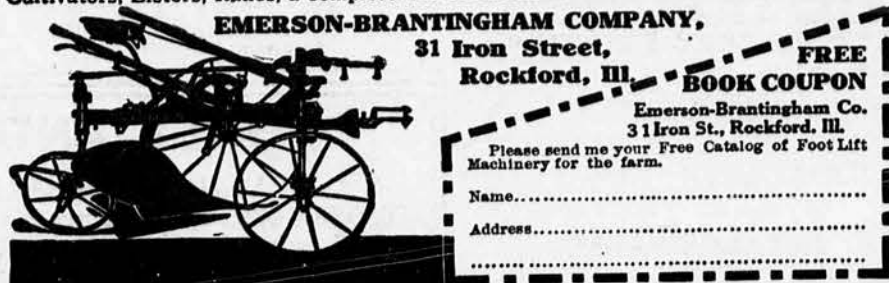
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WANTED—Farm in northeast Kansas in exchange for well improved 320 in Washington Co. Write **Lock Box 71, Morrowville, Kan.**

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WE HAVE a nicely-improved 285-acre farm 3 miles from Garfield, Kan., that we can sell you, worth the money, or trade for a good stock farm in east part of state. **Kimmel & Garth, Larned, Kansas.**

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GOOD HOME FARM, 200 a., near R. R. town, 120 in wheat, nice level land, fair improvements, 7-room house, large barn, abundance soft water, some alfalfa. A bargain. Write **Moore Land Co., Kingman, Kan.**

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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 25x50 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 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. **H. H. SMALLEY, Springfield, Mo.**

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Official 100-page book, **FREE GOVERNMENT LAND**, describes every acre in every county in United States; contains township and section plats, Maps, Tables and Charts showing inches rainfall annually, elevation above sea level by counties, homestead and other government land laws, tells how and where to get government land without living on it; United States Patent, Application Blanks, all about government irrigated farms and necessary information to procure government land. Price 25 cents, postpaid. Address **Homeseeker Pub. Co., St. Paul, Minnesota.**

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85 acres, 1 mile from center of Newton, Kan.; 60 acres alfalfa, 25 acres cultivation; all fenced with woven wire, hog tight; good 6-room house, good barn, good hay shed holding 300 tons; cement cave, water tank 28 feet in diameter, two windmills and other improvements. A snap at \$11,000. **COOK & FRANCIS, Newton, Kan.**

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160 ACRES, FINE LEVEL FARM, NEAR town, first class improvements, 100 acres fine wheat goes. For quality and price, this will suit. \$2,500 will handle. Box 6, Geneseo, Kan.

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FOR TRADE—A NEW CREAMERY doing a good business in a large town, for farm or city property. Also a hotel at Pierceville, Kan., to trade for Western Kansas land. **W. J. Trousdale, Newton, Kan.**

WRITE US FOR OUR LIST OF IMPROVED 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.**

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.**

IRRIGATED LAND EQUAL IN QUALITY and advantages to that selling at double the price; soil a rich black loam; permanent supply of sweet, pure water; steel and concrete dam; mild, dry climate year around; no blizzards, droughts, floods; alfalfa, fruit, grains, vegetables; main line Southern Pacific passes through Marfa, Texas, 11 miles away; Kansas City, Mexico & Orient building directly through property; tracts from 10 acres up; 1/4 down, balance at 6 per cent; write today for free illustrated book giving full information; next excursion February 6. **GREENE & KELLEY, General Sales Agents for St. Stephen Land & Irrigation Co., D714, Dwight Bldg., Kansas City, Mo.**

NEW MEXICO LANDS

RANCH FOR SALE—4,300 acres patented in New Mexico adjoining Colorado line, controlling 20 miles running water, modern stone residence with hot and cold water, bath, stone ware houses, barns and corrals, mostly fenced. Price only \$10 an acre. **Goke-Blackwell & Lawrence, Inc., Clayton, N. M.**

1280 ACRES BOTTOM LAND, partly in alfalfa and orchard, nearly all under fence, 200 acres under cultivation now, balance finest grazing land in the country. Elegant 6-room stone house, hot and cold water, bath, room, stationary wash stand, also with hot and cold water, toilet also in bath room, two large barns, large hen and turkey house, stone milk house, running water, waterworks all over the improved grounds. Fourteen-foot Sampson windmill, pumps 4-inch stream to two tanks, capacity of tanks are 100 and 33 barrels, respectively. Ideal home for a family; healthiest spot in the world for anyone to regard their health; only one-quarter mile to Clayton, N. M. Price, to close it out quickly, \$12.50 an acre. For further particulars address **Chas. H. Lawrence, Clayton, N. M.**

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A number of extra good Missouri and Kentucky bred jacks, from 3 to 5 years old, from 15 to 15.3 high. All are black with white points. Some show jacks in lot. Will sell worth the money. Description guaranteed. **J. E. PARK, Cameron, Missouri.**

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FIELD NOTES.

Three Big Poland China Sales. Don't fail to attend the three big sales—**W. B. Wallace, Bunceton, Mo., February 1; Bert Harriman, Pilot Grove, Neb., February 2; and the Baker Brothers at Butler, Mo., February 3.** You can attend all three with the one expense.

L. V. Okeefe Poland Sale. On February 12, at Stillwell, Kan., **L. V. Okeefe** will sell 50 bred sows and gilts. They are the big, practical kind, bred for early farrow. About 20 sows are bred to Big Logan, Ex., he by Mammoth Ex. Twenty head are bred to Grand Look, Jr.'s Model, he by Grand Look, Jr. Most all this herd is immune and can be bought with entire safety. Please read sale advertisement and send for a catalog, and come to the sale. This promises to be one of the good sales to be held this year.

Look for Sale Advertisement February 3. Please read the sale announcement in next week's issue of **A. J. Erhart & Son of Adrian, Mo.** This offering will contain 65 head of the tops of the Erhart herd, and also the tops of the **H. H. Harshaw** herd. Twenty sows will be bred to Major B. Hadley, the big, smooth Poland China boar that won grand championship at the American Royal, 1911, and 20 are bred to Young Hadley. Ten are bred to Grand Wonder and 10 are bred to Big Spot. Please look for advertisement and send for catalog. As this is Mr. Erhart & Son's first sale, they have no mailing list. We ask our readers to apply for catalog to **A. J. Erhart & Son at Adrian, Mo.** Please mention **Kansas Farmer** when you write.

Big, Husky Poland Chinas. On February 9, **S. N. Hodgson & Son, at Parker, Kan.,** will sell a draft of brood sows that are a credit to any breeder. Mr. Hodgson & Son have made several sales in the past five years, and they always had an offering that would be a credit to any breeder to sell. We ask all our readers to carefully read the sale advertisement, and note the breeding and blood lines. We call special attention to the three herd boars that the offering is bred to. First, by **O. K. Price** by **Price We Know.** **O. K. Price** was a hog weighing 1,000 pounds, and **Price We Know** weighed 955 pounds and was a great show boar. **Metal's Victor** by **Big Victor.** This hog comes from the well known herd of **D. C. Loneragan** at Florence, Neb., and is the best one he ever sold. Several sows will be bred to this young hog and should prove good investments to any farmer or breeder. **Black Expansion** is also strongly represented in the herd and a number of good sows will be bred to him. The catalog is ready to mail out. Don't fail to get one, and arrange to attend the sale.

Hull and Bean's Bred Sow Sale. On Wednesday, February 7, 1912, **George M. Hull and C. E. Bean** of Garnett, Kan., will sell 65 head of bred sows and fall yearling gilts. Ten head are tried sows—all regular producers and all raised good litters last year and are bred again to large type boars for early farrow. Among these is the great sow, **Kansas Queen 2d**, sired by **Nebraska King**; her dam was **Kansas Queen.** Another extra sow is **Pansy Pan**, that cost \$105, coming from the herd of **Roy Johnston** at South Mound, Kan. **Pansy Pan** is bred for an early litter and will prove a money maker to any breeder who will care for her. **Hull's Model** is a 2-year-old sow sired by **Hadley Boy** and out of **Midnight Champion Chief.** This is one of the best sows in Mr. Hull's herd. She raised two litters last year and is bred again to **Kansas Hadley** for an early litter. A very promising yearling sow is **Grand Lady** by **Grand Look 2d** and bred to **Kansas Hadley** for April first litter. One of the regular money makers is the sow, **Long Jane Lady** by **Chief Gold Dust** out of **Miss Topsy.** This sow is bred to **Kansas Hadley** for the last of February litter. In this sale is four fall yearlings by **Wm. Garnett** and are bred to a very promising boar by **O. K. Price** for early litters. These gilts are large and smooth and promise to make extra good brood sows. Twenty-seven head of fall yearlings are bred to **Kansas Hadley** and **Kansas Ex.**, mostly for early litters. The balance of the offering will be early spring gilts, the pick of the two herds, as none have been sold this year. These gilts are bred to **Kansas Ex.** and **Long Chief.** This offering promises to be one of the best lots to be sold in Kansas this year. Please read advertisement on another page, and send for catalog and arrange to attend the sale. Kindly mention **Kansas Farmer** when you write.

J. Q. Edwards' Hampshires. **J. Q. Edwards** of Platte City, Mo., a leading breeder of Hampshire hogs, is offering a number of extra good spring boars for sale. Also, a very fine lot of fall pigs—both sexes. This offering is immune, or cholera proof, and was sired by one of the great Hampshire boars and from the best dams in Mr. Edwards' fine herd. The offering will be sold well worth the money, breeding and quality considered, and Mr. Edwards always guarantees satisfaction.

It is estimated that electricity is used in 700,000 American homes. Is yours included?

Missouri and Kentucky Jacks

J. E. PARK, Cameron, Missouri.

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Walter & Graner's Poland China Bred Sow Sale

AT THE WALTER FARM, EFFINGHAM, KANSAS.

TUESDAY, FEBRUARY 13th, 1912

Forty-four bred sows, 6 choice boars. The offering consists of 16 tried sows, 28 fall yearling and spring gilts and 6 topnotch boars, representing the best in big type breeding and individual excellence. The attractions are several sows by old Expansive and Guy's Monarch. They are bred to the great Long King's Best 61555 by old Long King and Sampson Chief, Guy's Monarch, Kansas Victor, Expansive Chief by old Expansive and Sampson Ex. for March and April litters. Write for catalog at once.

AUCTIONEERS—JAMES SPARKS AND JOHN R. TRIGGS.

Jesse R. Johnson will represent this paper. Send sealed bids to him at Effingham, in care of H. B. Walter.

H. B. Walter & H. C. Graner

A GREAT COMBINATION SALE!

KANSAS AND OKLAHOMA IMPROVED STOCK BREEDERS' ASSOCIATION WILL SELL AT

Caldwell, Kansas, Thursday and Friday, February 8th and 9th

BISHOP BROS., TOWANDA, KAN., WILL SELL, FEBRUARY 8, 24 FULL BLOOD PERCHERON STALLIONS AND MARES, 2 to 4 years old, all good, heavy boned, drafty individuals—just the kind to begin the building of a good Percheron herd. If you want Percherons, don't miss this sale. Sixteen Shorthorns and 1 Hereford will also sell, Thursday, February 8, consisting of 10 splendid young bulls ready for service, 7 cows and heifers, some with calf, others with calf at foot. They include pure Scotch, Scotch Topped and Double Standard Polled Durhams. The Hereford is a fine young Polled Hereford bull consigned by R. F. Plummer & Son, Wellington, Kan. The Shorthorns are consigned by such breeders as Thomas B. Murphy & Sons, Corbin, Kan.; P. J. Skoog, Corbin, Kan.; L. E. Wooderson, Caldwell, Kan. Snyder Bros., Winfield, Kan., consigned 5 young bulls and 2 cows with calf at foot, Double Standard Polled Durhams.

THIRTY-FIVE HOGS SELL.

FRIDAY, FEBRUARY 9, J. R. ROBERTS, RENFROW, OKLA., will sell 20 Poland Chinas, including tried sows and yearling gilts by such sires as R.'s Grand Chief 2d, and safe in pig to such sires as Peter Pan and J. R.'s Perfection. Fifteen Duroc Jersey bred sows and gilts and choice young boars ready for service will be consigned by such well known breeders as H. E. Fisher, Danville, Kan.; J. R. Ebert, Caldwell, Kan., and E. E. Kelley, Corbin, Kan. Don't wait, but send your name early for a catalog, stating which breed desired. Address, Sales Manager, L. E. WOODERSON, Caldwell, Kan. Auctioneers—Col. J. D. Snyder and Williams Brothers.

BLUE VALLEY DUROC JERSEY BRED SOW SALE CIRCUIT

Thompson Bros. Select Offering of Duroc Jersey Bred Sows

AT FARM NEAR STOCKDALE AND GARRISON, KANSAS,

Wednesday, February 14, 1912

40 HEAD—THE BLOOD OF THE SIRES AND DAMS THAT HAVE MADE THE BREED NOTED—40 HEAD.
20 TRIED SOWS 20 SPRING GILTS

Everything bred for March and April farrow to Golden Chief, Chief's Orion by Ohio Chief, T. B.'s Col. and Blue Valley Chief.

TRIED SOWS—Include daughters of Tattarrax, champion at Kansas and Oklahoma State Fairs, 1908; Hogate's Model, champion at Nebraska State Fair, 1903; Wonder Chief, grand champion Kansas and Oklahoma, 1909. These sows are just in their prime and go in as attractions.

SPRING GILTS—Were sired by Ohio Col., grand champion at Kansas State Fair and winner of second in class at Neb. State Fair last year. Others by Chief's Orion by Ohio Chief, White House King by White Hall King, and Blue Valley Chief. We take special pride in the fact that we are able to offer to our old customers such a large number of sows and gilts sired by prize winners and bred to such boars. Golden Chief, as a breeder, is the best boar we have ever owned; sired by a son of Ohio Chief and out of a dam by Pearl's Golden Rule, he is making good.

Catalog ready now. Write for one. Trains met at Stockdale. J. O. Hunt sells day before. Attend both sales.

AUCTIONEERS—JAMES T. McCULLOCH, L. R. BRADY, Jesse Johnson, Fieldman. Send him bids in our care. THOMPSON BROS., Garrison, Kan.

Will offer Pioneer, a recorded Jersey Herd Bull.

Hunt's Annual Duroc Jersey Bred Sow Sale

—At Farm Near—

Marysville, Kansas, Tuesday, February 13th, 1912

AN OFFER COMBINING SIZE, SMOOTHNESS AND RICH BREEDING.

40—CAREFULLY SELECTED INDIVIDUALS, ABOUT THE KIND I USUALLY SELL—40

5 TRIED SOWS.

20 FALL YEARLINGS.

15 SPRING GILTS.

Bred for March and April farrow to Hunt's Special by Ohio Chief Primrose and Iowa Chief, a son of Ohio Chief.

TRIED SOWS include many near descendants of the great old Bessie H., one of the best known and valuable sows that ever lived. Others are by Bell's Chief 2d, Hunt's Model, and descendants of W. L. A.'s Choice Goods, and other boars of note.

FALL GILTS were all sired by Major A., a son of King of Iowa. Many of them are out of Hunt's Model sows. SPRING GILTS sired by Billy H., a grandson of W. L. A.'s Choice Goods. I have selected out 40 head of tops, and think they will be appreciated. Catalog ready by the time you read this. Usual accommodation and transportation to and from farm. Phone from any nearby town and you will be met.

Thompson Bros. sell day following at Garrison, Kan. Attend both sales.

AUCTIONEER—Z. S. BRANSON.

Jesse Johnson will represent Kansas Farmer. Send bids to him, in our care.

J. O. HUNT
Marysville, Kan.

HORSES AND MULES

DR. W. H. RICHARDS

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 buying. **Barns Four Blocks from Santa Fe Depot. EMPORIA, KANSAS.**



Mammoth Jacks and Percheron Stallions and Mares

100 head of Jacks, Percheron and Standard Bred Stallions and Mares for sale. Jacks from colts to 6 years old; Stallions and Mares from colts to 6 years old. Write for prices and description, and visit our farms before you buy. Farm and sales barn on 21st street, 3 miles east of Union Stock Yards.

J. C. Kerr & Company
Wichita, Kan.



JACKS AND JENNETS

20 large Jacks from 2 to 7 years old.
25 head extra good Jennets priced right. Come and see me.
PHIL WALKER,
Moline, Elk Co., Kansas



30 Head of Percherons, Belgians, Road Horses and Jacks.

Winners of first and second prizes at Kansas State Fair, 1911. Sale barn right in town. My prices are right. Write or come and see me.
C. F. COOPER,
Partridge, Kan.



IMPORTED AND HOME-BRED PERCHERONS. BIG JACKS AND JENNETS.

Priced to sell. Come and see us. Farm 4 miles from Raymond or Chase. Write **J. P. & M. H. MALONE,** Chase, Rice Co., Kan.



AL E. Smith Stock Farm
Black mammoth Jacks and Jennets, Percheron Horses.

You will find what you want in large banded, registered, 15 to 16 hands standard. Special prices on fall sales. Both phones.
AL E. SMITH,
Lawrence, Kan.

BIG HIGH CLASS JACKS.

W. T. Trotter, Mt. Air, Iowa—Breeder of big, high class Jacks. If you want a big, well-broke, high-class Jack, write me. I have 10 head of extra good ones for sale. All sired by my famous herd Jack, Keno. All are black with white points. They are an extra fine lot.
W. T. TROTTER,
Mt. Air, Iowa.

ROYAL BELGIANS

125—Head—125

Write for catalog.

H. Lefebure, Fairfax, Iowa.

REGISTERED JACKS—Also choice 8 months registered Percheron stallion.
BRUCE SAUNDERS, Holton, Kansas.

IMPORTED DRAFT STALLIONS, \$1,000 each; home-bred, \$300 to \$600. **HART BROS., Osceola, Iowa.**

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.
Up-to-date Poland China hogs. Write your wants.
N. N. HOLDEMAN, Meade, Kans.

Best Imported Horses One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors. **A. LATIMER WILSON,** Creston, Ia.

JACKS and JENNETS

Six large Jacks, from 2 to 5 years old, 3 extra good Jack colts, 14 head of extra good Jennets, 1 Clyde stallion, 1 German Coach stallion, 1 registered saddle stallion. For quick sale, this stock will be priced worth the money. Will sell the lot or singly. Will consider a trade. Write us.
YATES BROS.,
Faucett, Mo.

PERCHERON HORSES.

M. I. Ayres, Shenandoah, Iowa, importer and breeder of high-class Percheron horses. Our offering at this time includes 20 head of outstanding good young stallions—a string of youngsters that will interest breeders who want the best. Come and inspect our offering if you want a high-class stallion. We have them.
M. I. AYRES,
Shenandoah, Iowa.

PERCHERONS, SHIRES, BELGIANS.
Prospective buyers should see our 60 head of big, heavy-boned, draft stallions and mares. Two importations this fall. We have a fine lot of American-bred Percherons that will suit, both in quality and price. All stock registered and guaranteed fully. Come to the barns or write.
SKOOG, REED & DECOU,
Holdrege, Neb.

RIVERSIDE Stock Farm

Percherons and Jacks for sale. We have a fine lot of registered Percheron colts coming two and three years old. A few large black Jacks and three registered standard-bred stallions, four to six years old. Pedigrees and breeding guaranteed.
O. L. THISLER & SONS, Chapman, Kan.

Home-bred Draft Stallions \$250 to \$400
Hons—your choice, \$1,000. **E. L. Stream,** Creston, Iowa.



FAIRVIEW STOCK FARM.

Twenty-five Mammoth Jacks, all ages; Pharaoh 2491, grand champion, Tennessee at head. Largest herd in west.
H. T. HINEMAN,
Dighton, Lane County, Kan.

A. M. Walker, Laclede, Mo.—Breeder of high-class Percheron horses. A number of young stallions and young mares for sale; also mares in foal. All registered stock. Write me for prices. Inspection of stock invited.
A. M. WALKER, Laclede, Mo.

4 REGISTERED PERCHERON STALLIONS.
Won 1st and 2nd at Topeka for Percheron Stallions, any age, bred and owned by exhibitor. Won same at American Royal. Also best American-bred Percheron Stallion at any age.
J. G. ARBUTHNOT, Cuba, Kansas.

ANGUS CATTLE

BIG SPRING ANGUS CATTLE.
Jasper Audridge & Son, Pottawatomie, Mo., Proprietors.
Breeders of pure bred Angus cattle and Dorset Jersey hogs.
Breeding Stock for Sale.

ALLENDALE FARM BULLS.

Am offering a choice lot of young Angus bulls, sired by Even Eric 111592, ranging in age from 8 to 10 months, weighing from 600 to 800 pounds; one good 20-months-old bull. **W. A. HOLT, Savannah, Mo.**

GALLOWAY CATTLE

FORT LARNED HERD.

REGISTERED GALLOWAYS
for sale. Fifteen choice registered bulls 15 to 20 months old.
E. E. FRIZELL, Larned, Kansas.

Capital View Herd of Registered Galloways.

A choice lot of young bulls for sale in numbers to suit. Write or call for further information. **G. E. CLARK, 2301 Van Buren St., Topeka, Kan.**

POLLED DURHAM CATTLE

Roan Hero the International Champion and BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1635 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kansas.

HEREFORD CATTLE

MODERN HEREFORDS HERD BULLS.

BEAU BRUMMEL 10th 167719.
BEAU BEAUTY 192235.
CALDO 2d 260444.

Hazford Place Eldorado, Kan.
ROBT. H. HAZLETT.

100—Hereford Bulls—100
Coming yearlings and twos. A choice lot of cows and heifers. One to a car load. Bred to one of the best bulls in Kansas.
SAMUEL DRYBREAD, Elk City, Kansas.

GUERNSEY CATTLE.

A FEW Guernsey bulls for sale; butterfat record 688 to 714 lbs. per year; prices reasonable. **Frederick Houghton, Roxbury, McPherson Co., Kansas.**

GUERNSEYS.
For Sale—High-grade Guernsey bull and heifer calves. "Materna" strain. **MRS. HELEN DONNELLY, Manitowoc, Wis.**

Mammoth Jacks For Sale

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,
Queen City, Mo.

LEE BROTHERS' PERCHERONS FOR SALE.

Imported and Home-bred Stallions and Mares, Blacks and Grays.
80—HEAD OF MARES AND STALLIONS—80
From weanlings up. The kind that we sell such men as W. S. Corsa. Every one 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.

50—PERCHERON STALLIONS AND MARES—50

Bishop Brothers have 26 big boned stallions that weight 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business, quality considered. Write us what you want.
BISHOP BROS., TOWANDA, KAN.

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearlings and 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince Second 338026—a herd bull with a record as a breeder; all will be sold, worth the money and descriptions of stock guaranteed.
GEO. A. ROBINSON, Prescott Ia.

DUAL - PURPOSE - SHORTHORN - CATTLE

Evergreen Home Farms, Lathrop, Mo., **J. H. Walker, Prop.**—Breeder of dual purpose Shorthorn cattle, Oxford Down sheep, Berkshire hogs and Burbon Red turkeys. Breeding stock for sale at all times. Prompt attention to mail orders. Write us for milk and butter records of our Shorthorn herd.
J. H. WALKER, Lathrop, Mo.

GANZDALE HERD PURE-BRED HOLSTEIN

GANZDALE HERD PURE-BRED HOLSTEIN COWS AND HEIFERS FOR SALE.
To move them quickly we will, quality considered, price them right. We must reduce our herd. We also have a few extra choice quality bull calves for sale, sired by that premier sire, Pietje Count. Several of his sons from large producing dams at prices very cheap. **CASPAR A. GANTZ, King City, Mo.**

HOLSTEIN CATTLE

33 1/3 PER CENT DISCOUNT ON \$50—BULLS—\$125.

Overstocked, Short of Feed, Must Sell.

Thirty head of Holstein bulls for sale, 1 month to 24 months old; **A. R. O.** breeding; 100 head in herd; pedigrees to be proud of; every one a herd header. We have never sold as good animals as this offering for less than \$75 to \$200. Buy your bull now when you can get a good one cheap. **Barn on Rock Island, 30 miles east of St. Joseph, inside city limits, one-half mile from station. A few females for sale.**

S. W. COOKE & SON, Maysville, Mo.

M. E. MOORE & CO., CAMERON, MO.
breeders of Holstein Friesian cattle. Five head of high-class cows for sale, also young stock, both sexes. Herd headed by Sir Johanna Colantha Payne 42146, assisted by Sir Korndyke Imperial 53683.

BULL CALVES always on hand, and worth the price.
H. B. COWLES, Topeka, Kansas.

Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
Send for **FREE Illustrated Booklets.**
Holstein-Friesian Assn., Box 114, Brattleboro, Vt.

SUNFLOWER HERD HOLSTEIN-FRIESIANS.

Choice stock, both sexes, always on hand. The best sire in the middle west heads this herd. Visitors and inspection solicited. **F. J. SEARLE, Oskaloosa, Kan.**

JERSEY CATTLE

I AM OFFERING a few young bulls, some of Oxford's Masterpiece, a son of Oxford Lad; Oxford's Brigadier, a son of Gambo Knight; Merry Maiden's Golden Lad, a son of Merry Maiden's third son; and Eurybia's Exile. I have but a few of these calves that are ready for service. Will sell them reasonably while they last. Write for prices and particulars. **W. N. Banks, Independence, Kan.**

COMFORT'S REGISTERED JERSEY CATTLE.

Carry the blood of the most noted sires. For quick sale, nine choice bulls, nearly all of serviceable age, including two by Imp. Oakland's Sultan, a prize winner on the Island. Others by Gold Boy's Guenon's Lad. Out of high producing dams. Nice colors and good individuals. Write for price and descriptions. **F. W. COMFORT, Westmoreland, Kan.**

LINSCOTT JERSEYS

Only Register of Merit Herd in Kansas. A few bulls of serviceable age, sired by a Highly Commended first prize winner of Island of Jersey, out of tested cows.
R. J. LINSCOTT, Holton, Kan.

GOLDEN RULE JERSEY HERD.

Headed by Omer's Eminent 85865. Choice bull calves for sale.
JOHNSON & NORDSTROM,
Clay Center, Kan.

REGISTERED Jersey bull calves for sale, from the finest blood lines, at reasonable prices. **Dr. D. R. Hill, Joplin, Mo.**

JERSEY CATTLE

Your Choice—1 bull, coming 2 years, by Beatrice Stockwell; 1 7 months old, by Omer's Eminent, dam Guenon's Sallie M. test of milk 9 per cent butter fat. Heifers and cows from 6 months to 6 years, mostly Golden Lad and St. Lambert blood. **S. B. SMITH, Clay Center, Kan.**

7—CHOICE JERSEY BULLS—7
from 4 weeks to 12 months, sired by a son of the noted Sultan Jersey Lad and out of excellent dams. **HENRY E. WYATT, Falls City, Neb.**

RED POLLED CATTLE

RED POLLED BULLS FOR SALE.
Three yearlings, weighing 800 to 1000, get recorded. During January \$75 each. Chance of a lifetime. Beef and milk qualities combined. Herd bull weighs a ton. Bulls ready for service. September O. I. C. boars for sales. **MILTON PENNOCK, Route 4, Delphos, Kan.**

RED POLLED CATTLE.
The champion beef and milk producer of the age; bred and for sale by the undersigned. Write for prices or come and see the red beauties.
J. B. RESER, BIGELOW, KAN.

RED POLLED CATTLE.

The only dual purpose cattle and the most profitable for the farmer. Choice bulls for sale.
U. E. HUBBLE, Stockton, Kan.

AULD BROS. RED POLL CATTLE.
Herd numbers 50, headed by Prince, a ton bull in condition; 10 choice young bulls and a few cows and heifers for sale; farm one mile from town.
AULD BROS.,
Frankfort, Kan.

FOSTER'S RED POLLS.
Choice bulls and heifers priced reasonable.
C. E. FOSTER, R. R. 4, Eldorado, Kan.

SHORTHORN CATTLE

GREENDALE SHORTHORNS.
Double Champion (by Choice Goods) at head of herd. Six good red bulls from 16 to 25 months old for sale cheap to get the room for winter. Also, have a select bunch of calves.
ED GREEN,
Florence, Kansas.

NEW BUTTERGASK SHORTHORNS.
Herd headed by Snowflake's Stamp and Snowflake's Star, the latter the cup winner at the 1911 Mitchell County State-Wide Fair. Straight Scotch and Scotch-topped bulls for sale.
MEALL BROS., Props., Cawker City, Kan.

C. J. WINGER, POLO, MO.
Breeder of high-class, dual purpose Shorthorns. One yearling bull and 17 cows of breeding age, for sale. Some with calves by side. A milking herd that tests high, with best qualities.
C. J. WINGER, Polo, Mo.

GLEN HALL SHORT HORN HERD
Headed by Choice Prince, by Prince of Tebe Lanna and out of Good Lassie by Choice Goods. 5 choice red bulls in age from 10 to 14 months. Herd header, Prospects.
JOHN O'KANE, Blue Rapids, Kan.

875 Breeding Shropshires

High grade black faced breeding ewes. All young, from yearlings up. A number of good young mares, draft bred and some good young work mules. 185 head good stock cows. Can furnish car lots of any class of stock. Maryville branch U. P. station on farm. **Alkin Banche, F. T. Grimes, Manager; Railway Station, Alkin, Kan.; P. O., Emmett, Kan.**

POLAND CHINAS**POLAND CHINAS****FESSEMEYER'S A WONDER OFFERING.**

Eight litters fall pigs, sired by A Wonder. Will book orders for both boars and gilts. Ten spring gilts. Gritters and Allbrook breeding, bred to A Wonder. Fifteen gilts and boars, will weigh 200 lbs. A number of herd headers. Can sell you young pigs if you want to save express. Offering sired by Mastodon Price and Columbia Wonder. A great offering of A Wonder pigs. Description of stock guaranteed.
H. FESSEMEYER, CLARINDA, IOWA.

DEAN'S MASTODON POLAND CHINAS.

A number of 300-lb. fall boars now ready. They are the big, mellow kind, with 7% o 3 1/4-inch bone. To move quick, will sell at from \$30 to \$35. Also an extra lot of spring gilts and boars, will weigh 200 lbs. A number of herd headers. Can sell you young pigs if you want to save express. Offering sired by Mastodon Price and Columbia Wonder. CLARENCE DEAN, Weston, Mo. Phone, Dearborn, Mo. R. R. Station, New Market, Mo.

BIG TYPE POLAND CHINAS.

Thirty fall pigs sired by Spotted Chief, both boars and gilts, out of matured sows of the large type breeding. Will also offer for a short time only a limited number of spring gilts sired by Spotted Chief and R. B.'s Longfellow, which are bred to King Wonder, a son of old A Wonder No. 107353 for March and April farrow. These are extra good and are priced reasonable, breeding and quality considered. Description of stock guaranteed. W. F. HOUS, JR., HALE, MO.

BIG HADLEY, BIG HUTCH AND EXPANSION BLOOD

Predominate in my herd. Herd boars: Hutch Jr. by Big Hutch and King Hadley 2d by Big Hadley. Among sows are Graretta, litter sister to Bell Metal; Pan Princta, weight 725 lbs.; Mollie S., 750 lbs., and Bess Corwin, the dam of Expansion Sea, the biggest boar ever owned in the West. 90 choice pigs farrowed to date. Visitors always welcome.
C. W. JONES, Solomon, Kansas.

LONGVIEW POLANDS.

Herd boar young Mastiff. The first and grand champion at Topeka, Kansas, State Fair, 1910. A few choice spring boars and gilts for sale, all large type. Priced reasonable and guaranteed. D. M. GREGG, Harrisonville, Mo.

MADISON CREEK POLAND CHINAS.

Twenty choice spring boars of strictly big type. Low prices in order to make room for fall pigs. J. L. GRIFFITHS, Riley, Kan.

FOR SALE.

20 choice Poland China summer and fall boars. The big, smooth kind. Priced to sell quick. Herd headed by Grandeur and Blain's Wonder Son.
MATT ALTON, Erie, Kansas.

LANBERT'S CORRECT TYPE POLANDS.
Ten ribbons at Topeka State Fair. The big, smooth kind. Pigs or bred sows for sale.
JOSIAS LANBERT, Smith Center, Kan.

M'S GIANT WONDER 58159.
800 pounds, 11-inch bone as a yearling. For Sale—Choice tried sows bred to this great boar for March farrow.
JOHN T. CURRY, Winchester, Kan.

HOPPE'S BIG TYPE QUALITY POLANDS.
The best of the big type breeding; fed for best results. Bred sows and gilts for sale.
W. V. HOPPE, Stella, Neb.

Thirty Bred Gilts for Sale.

A. L. Albright, of Waterville, Kan., the breeder of the big, smooth kind of Poland Chinas, is offering that number for sale at \$25 to \$40. Write him.

DISPERSION SALE.

I offer at private treaty my entire herd of Poland Chinas, young boars, tried sows and gilts, open or bred to Giant Monarch, the king of big type boars. Some great ones at a bargain. Write for information. Visitors welcome.
W. C. MILLIGAN, Clay Center, Kansas.

MOONEY CREEK POLAND CHINA HERD

The biggest of the big. Wonder and Mastodon strains. Herd headed by Big Osborne. I have bought seed stock from the best herds in Iowa and have new breeding for Kansas. Have an extra fine boar for big or medium type breeder. Also fine gilts for sale. Write for information. Visitors welcome.
JOHN W. NOLL, Winchester, Kansas.

GREEN LAWN HERD

The big type Poland Chinas. Herd headed by Major B. Hadley, the Grand Champion at American Royal, 1911. Also Young Hadley and Big Spot. A grand lot of fall pigs for sale, priced to sell.

A. J. ERHART & SONS

Adrian, Mo.

At Head, BLUE VALLEY EXPANSION 54414.

A Grand Individual, With Massive Bone and Length.

L. C. WALBRIDGE, Russell - - - - Kansas.

20—Choice Big Type Poland Boars—20

Vaccinated and just right for hard service. Bargain prices for quick sale. Also, 10 young Shorthorn bulls and a few cows and heifers.

S. B. AMCOATS, Clay Center, Kan.

POLANDS.

Fuller Brothers' prize Poland. Grand champion sow, Sedalia, 1911, and other prize winners in herd. Storm Center, sire of champion sow, and Big Tecumseh, at head of herd. We also breed Hereford cattle and Scotch Collies. FULLER BROS., Humphreys, Mo.

HARTER'S BIG KIND POLAND CHINAS.

Headed by Mogul's Monarch, Prince Hadley, and other good sires. Choice breeding stock always for sale.

J. H. HARTER, Westmoreland, Kansas.

THE POLANDS THAT TAKE

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

VINECROFT POLAND CHINAS

Bred for quality and size. Address, ALVIN LONG, Lyons, Kan.

BRED GILTS \$25 to \$30 EACH.

20 fall gilts, big and smooth. Big type. Good time to start herd. Write quick. F. D. YOUNG, Winchester, Kan.

LIMESTONE FARMS

breeds Shropshires, Big Poland Chinas, Buff Orpingtons, S. C. Brown Leghorns, Indian Runner ducks and Chinese geese. Choice cockerels for sale worth the money. M. GOTTSWILER, Clarksdale, Mo.

WALNUT GROVE FARM

still has a few choice spring boars for sale. Sired by First Quality 60266 and out of Expansion and C's Perfection dams.

JAMES ARKELL, Junction City, Kan.

MAMMOTH HADLEY POLAND CHINAS.

60 choice spring pigs sired by Mammoth Hadley and Grand Model, two as good sires as can be found in the west; dams of pigs carry the blood of nearly all big sires.

GEO. W. SMITH,

Burchard, Neb.

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 2nd. 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 bed-rock. Write us.

WOODLAWN FARM CO., Sterling, Ill.

HAMPSHIRE thoroughbreds from prized stock, fine sows and gilts exceptionally cheap. Duroc Jersey out of the best blood possible. Brood sows and gilts, also some exceptionally good male hogs. All registered. Priced to sell. The Springdale Stock Ranch, Concordia, Kansas.

HILLWOOD STOCK FARM

High Class Hampshires—Herd Headed by the Celebrated boar Erlanger 1039. High class young boars for sale. Will also sell Erlanger.

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.

BERKSHIRES**BERKSHIRE HOGS.**

Guaranteed choice breeding stock of very fashionable lines. Either sex. Pigs, \$15; of breeding age, \$25; very extra choice, best quality, \$35. Registered. Crated f. o. b.

R. J. LINSOTT,

Holton, Kan.

RENO BERKSHIRES

for sale. All sired by the grand champion at Kansas State Fair, 1910; 15 spring boars and 15 spring gilts, priced. Write at once.
T. E. CLARKE, Medora, Kan.

DUROC JERSEYS

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

ELDER'S HIGHLAND DUROCS. Headed by G. C.'s Col. and F. D.'s Col. Sows contain the blood of Ohio Chief and Crimson Wonder. Stock always for sale.
FRANK ELDER, Green, Kan.

100 DUROC JERSEY PIGS PRIVATELY. Richly bred boars and gilts in pairs not related at prices to move them.
O. A. TILLEY, Pawnee City, Neb.

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.

Think, Man! Think!

What you are getting if you buy Miss Critic II, third prize junior yearling sow at Des Moines, 1911, in a class of 45. Bred to "VALLEY KING," grand champion boar at Iowa and Nebraska State Fairs, 1911. At Robert T. Miller's bred sow sale, FEBRUARY 15, AT TABLE ROCK, NEB. Write for catalog.

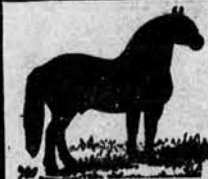
R. T. Miller, Table Rock, Nebr.

150 Shetland Ponies 150

Stallions, Geldings and Mares. All colors and ages. Thirty-four to forty-eight inches high. Call on or address,

C. H. CLARK,

Colony, Kansas

**40 STALLIONS AND MARES.**

My barn is full of good Percheron, Belgian and Shire Stallions. Priced to sell. I mean business. Come and look them over. If you want good horses, we can deal. My prices are from \$400 to \$1,000. Come and see me before you buy. Then be your own judge. Barn right in town.

Joseph M. Nolan, Paola, Kan.

Imported—Percheron—Stallions

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

PERCHERON IMPORTING CO., South St. Joseph, Mo.

**Percheron Stallions and Mares**

A few choice stallions and several brood mares safe in foal. Matched teams from 2 to 5 years old. Come and see me.

F. H. SCHREPEL, Ellinwood, Kan.

PERCHERON STALLIONS

Priced to sell—from yearlings to three-year-olds. All dark colors, heavy bone and large size; plenty of quality. The best of breeding. All registered in Percheron Society of America. Come and see me.

J. W. BARNHART, BUTLER, MO.

**PERCHERON, BELGIAN, GERMAN COACH STALLIONS AND MARES.**

Imported and home-bred. Will sell our 1911 champion and other prize winners. Write or come. I make good. Mention this paper.

PIONEER STOCK FARM, J. W. Waddill, Prop., BRASHEAR, MO.

REGISTERED PERCHERON STALLIONS

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. WILL F. HOOKER, Hamilton, Caldwell Co., Mo.

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

DUROC JERSEYS**DUROC JERSEY SPRING BOARS**

Up-to-date breeding, plenty of quality and good colors. Priced for quick sale.
W. H. SALES, Simpson, Kan.

25—DUROC JERSEY SPRING BOARS—25

By such sires are King to Be and G's Col. out of the greatest sows of the breed. Also two fall boars sired by Neb. Wonder, and a few spring gilts. Will not hold fall sale.

GRANT CHAPIN, Greene, Kan.

B. & C. Col. and Bells Chief

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

AUCTIONEERS

R. L. HARRIMAN
LIVE STOCK AUCTIONEER
Bunceton, Missouri

W. C. CURPHEY Salina, Kansas
LIVE STOCK AUCTIONEER
Write, phone or wire me for dates.

T. E. GORDAN, Waterville, Kan.

Real Estate Auctioneer. Will cry sales in any state; terms reasonable; write for plan.

LAFF BURGER, Live Stock Auctioneer, Wellington, Kansas—15 years of success in selling pure bred live stock.

AUCTIONEERS

FOR THE BEST RESULTS
employ Zaun. He works for the best breeders in America. Best of reference furnished.

FRANK J. ZAUN,
Independence, Mo.

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Live Stock Auctioneer, Parsons, Kan. Continually selling for the best breeders of several states. Write, wire or telephone. Home phone 2702.

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MANKATO, KANSAS.

Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

T. HOS. DARCEY

Real Estate and Live Stock Auctioneer. Eighteen Years' Experience. Offerle, Kan.

F. E. KINNEY

Oketo, Kan., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of references furnished. Write or phone for dates.

MONT ORR

Live stock and farm sales auctioneer; block and ring work solicited. Belleville, Kan.

T. E. DEEM, AUCTIONEER
Auction sales of pedigreed stock made everywhere. Write me about your sale. I have an open date for you. Address, Cameron, Mo.

Rock Brook Farms 6th Annual Auction

Sale Of Registered Holstein-Friesian Cattle

TO BE HELD AT OMAHA, NEB.,
TUESDAY AND WEDNESDAY,

FEBRUARY 6 and 7, 1912



This sale includes 60 heifers under 2 years old; 25 heifers 2 and 3 years old, all bred to calve in the spring; 40 cows, 3 to 8 years old, a number of which will be fresh at sale time with a lot of them due soon after sale; 35 bulls of all ages, mostly out of A. R. O. cows.

Our herd bulls are: Senior sire—Pontiac Soldene Butter Boy, sired by DeKol 3d's Butter Boy 3d, and out of Pontiac Soldene, a 26.61 A. R. O. daughter of Hengerveld DeKol. Our junior sire is King Pontiac Korndyke Topsy; he is a son of the great King of the Pontiacs, out of Valley Farm Topsy 2d, a 24-pound 4 per cent daughter of Korndyke Queen DeKol's Prince.

No Better Blood Lines Anywhere

Remember the date and send for catalog, which will be mailed you as soon as published. Write now for the catalog of this sale. Every animal over 6 months is tuberculin tested. Every animal guaranteed a breeder. You take no chances here.

ROCK BROOK FARMS, Station B, Box 100, R. D., Omaha, Neb.

B. V. KELLEY, R. E. HAEGER, R. M. ADKINS, Auctioneers.

FIELDMAN—JESSE JOHNSON.

THE SALE YOU'VE BEEN LOOKING FOR.

Faulkner's

Spotted Poland Brood Sow Sale

WEDNESDAY,
FEBRUARY 14th, 1912

Jamesport, Mo.

Fifty old, original, big boned, spotted, tried sows, yearling and spring gilts. All bred for February, March and April farrow to my big, spotted boars,

BUDWEISER, BRANDYWINE, BILLY SUNDAY, BIG JIM AND LUCKY JUDGE.

If you like the kind of our forefathers, arrange to attend.

Auctioneers—Cols. Wells, Shepherd, Nelson, Deem, Dorsey, Cies, Carson and Thompson.

W. J. Cody will represent Kansas Farmer. Catalogs tell all about it. Write for one.

H. L. FAULKNER, OWNER

HIGHVIEW BREEDING FARM, JAMESPORT, MO.

Lamer's Percherons SALINA, KANSAS

Senty-five (75) Head of Imported and Home-grown Percheron STALLIONS, MARES and COLTS, all ages, for sales. WRITE or COME AND SEE ME before you buy.

C. W. LAMER,
Salina, :: :: :: :: Kansas

STALLIONS

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.

L. R. WILEY,

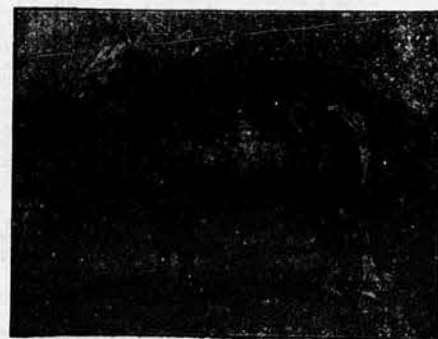
EMPORIA, KANSAS

MENTION KANSAS FARMER WHEN YOU WRITE.

100 Head of Imported and Home-bred Stallions

and mares of the different breeds, 50 head of coming 3-year-olds, big boned, American-bred, pasture-raised stallions; the kind that give satisfaction, the kind that breed.

Reference: Any bank in Grand Island, Cairo or Bridgeport, Neb. History of the horse and large calendar sent free to horsemen. NORTH-ROBINSON DEAN CO., Grand Island, Neb.



COTTINGHAM & SONS 16TH ANNUAL SALE

50 Horses 50

12 Head of Pure-bred Shorthorn Cows and Bulls at
Their Sale Barn,

McPHERSON, KANS.,
Thursday, Feb. 1st, 1912

We will sell 5 Pure-bred Percheron Mares, bred to imported horse; 3 Pure-bred French Draft Mares, bred; 1 Registered Percheron Stallion, weighed 1980 last spring, of good, splendid bone and conformation 7 years old; 1 Registered Morgan Stallion, a show horse, has always taken first wherever shown, took first in his class at Hutchinson State Fair two years ago; 40 head of high quality Mares and Geldings, weight 1400 to 1600 lbs., most all young, and mares bred to pure-bred horse. I have several marketable horses in this offering, giving shippers a rare opportunity to purchase at their own prices. Everything offered will be sold without reserve. No postponements on account of weather. Sale will be held under cover. Terms of sale: Nine months' time at 7 per cent from date.

W. H. Cottingham & Sons,
McPherson, Kansas

Albert Smith & Sons 12th Annual Bred Sow Sale BIG SMOOTH POLANDS

At Farm, 8 Miles Northeast of

SUPERIOR, NEBR.

Wednesday, Feb. 7, 1912

23 CHOICE FALL YEARLINGS, 5 EXTRA FINE TRIED
SOWS, 14 SPRING GILTS.

An offering of unusual merit. Big, stretchy, smooth and prolific. Bred for February, March and April farrow, to Smith's Big Hadley, Jumbo, Jr., Victor Prospect by Big Victor, and out of Oakford Prospect breeding on dams' side. The fall gilts are exceptionally choice ones, 15 of them by Smith's Big Hadley, including a litter of five out of L.'s Beauty by Chief of Pawnee. A few choice ones by Jumbo, Jr. The tried sows include several daughters of Smith's Big Hadley and Chief of Pawnee. The spring gilts are by Jumbo, Jr., Smith's Big Hadley and Big Sam. The Big Sam gilts are very choice. The offering, taken as a whole, is very uniform, and it is difficult to say anything about different individuals that isn't true of the whole bunch. The tried sows are sows that have proven valuable in our hands and will continue to be profitable for new owners. The catalog gives all necessary information and guarantees, and can be had for the asking. If unable to attend, send sealed bids to Jesse Johnson, in our care, at Superior, Neb. Free transportation to and from the farm. We will also sell two choice registered Shorthorn bulls.

Albert Smith & Sons, Superior, Nebr.

Auctioneer—John Brennen.

Jesse R. Johnson, fieldman for Kansas Farmer.

J. O. James' Big Orange and Pawnee Lad Bred Sow Sale

AT

Braddyville, Iowa, on Wednesday, Feb. 7th, 1912

Fifty head of bred sows, daughters of the following noted boars, will be in this great offering: 1,000-pound Pawnee Lad, 900-pound Bix Ex, 750-pound senior yearling Big Sensation, 1,000-pound A Wonder, 860-pound champion Max Dude, 1,000-pound Long King's Equal, 1,000 pound Pawnee Nelson, Pawnee Prince, Big Giant and Big Hadley 2nd. The dams of the offering are of the best big type breeding and for size and quality are all that could be desired. Many of them are Pawnee Lad Sows. A large number will be bred to Big Orange, others to A Wonder's Giant, some to Gritter's Best, and the rest to Big Sensation. This will be my greatest offering at public sale. Write for catalog. Bids sent to fieldmen or auctioneers, in my care, will receive careful attention.

Auctioneer—H. S. Duncan. W. J. Cody, fieldman for Kansas Farmer.

J. O. James,

Braddyville, Iowa

JOHN B. LAWSON'S LONG KING'S EQUAL AND A WONDER JUMBO BRED SOW SALE

AT CLARINDA, IA., TUESDAY, FEBRUARY 6.
45—HEAD OF BRED SOWS—45

Sixteen tried sows, bred to Long King's Equal; a few gilts, sired by old A Wonder and bred to Long King's Equal; balance Long King's Equal gilts, bred to A Wonder Jumbo. Send for catalog. Bids sent to fieldmen or auctioneer, in my care, will receive careful attention. W. J. Cody, fieldman for Kansas Farmer. H. S. Duncan, auctioneer.

JOHN B. LAWSON,

CLARINDA, IOWA

LIMESTONE RIDGE FARM, CAMERON, MO.—Farm 5½ miles south of Cameron, 35 miles east of St. Joseph and 54 miles northeast of Kansas City, on the Burlington and Rock Island railways. Missouri Jacks, Percheron and Saddle Stallions, for sale at reasonable prices. Extra good Jacks for Jennets. All stock old enough for service, has been tried and will be guaranteed breeders. No trouble to show stock. P. O. address, ISAAC C. LOHMAN, R. F. D. No. 3, Turney, Clinton County, Mo.

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.

FIELD NOTES.

Leon Carter Sells February 28.

One of the good Duroc Jersey bred sow sales of the winter will be that of the well known breeder, Leon Carter, of Asherville, Kan. The sale will be held on the farm adjoining town, and 50 head will be sold. Of this number, 10 will be tried sows and the remainder spring gilts, for the most part sired by the great boar Dreamland Col. L. C.'s Defender, Golden Rule Wonder and Fitch's Col. They will be bred to the same boars and a few to Col. Cant and Col. Campbell. Mr. Carter is in the circuit with Ward Bros. of Republic and W. E. Monismith of Formoso, Kan. Write any time for catalog.

Jerseys at Topeka.

F. J. Scherman, Route 8, Topeka, Kan., offers some choice Jersey cows, bulls and heifers for sale. These are all registered and are from the top breeding of leading herds. Included in the herd are a number of prize winners and the dams of prize winners. Rich, heavy milking cows of from 8 to 11 years and bulls from one month to coming three years. Two of these bulls won prizes at the Kansas State Fair last fall in the strongest kind of competition. These cattle are bred right and will be priced right. Write for particulars or visit the herd. Don't miss these Jerseys. Kindly mention Kansas Farmer when you write.

ELDER'S BIG DUROC JERSEY AND LAND DISPERSION SALE

**At GREEN, (Clay Co.,)
KAN., WED., FEB. 7, '12**

80 HEAD OF REGISTERED DUROC JERSEYS,
consisting of 30 tried sows and fall yearlings, 40 spring gilts, 5 spring boars and 5 herd boars, including the noted G. C.'s Col., F. E.'s Col. and a good son of Neb. Wonder named Neb. Wonder 2nd.

The tried sows include some of the greatest sows of the breed, and are, for the most part, daughters of King of Cols. 2nd, Model Chief Again, G. C.'s Col., G. M.'s Col., Tatarrax and King Wonder.

The gilts and spring boars were sired by G. C.'s Col., F. E.'s Col., Strong King by Crimson Wonder Again, Elder's Wonder and Carl's Critic.

The sows and gilts are bred for February, March and April farrow to five different boars, which comprise those already mentioned.

I paid long prices for the foundation of this herd, and think it is conceded that there are few better breeding herds in existence today. But other business makes it necessary to disperse it at this time. I have sold off from time to time the older sows, so this sale will contain none but sows in their prime. Write early for catalog.

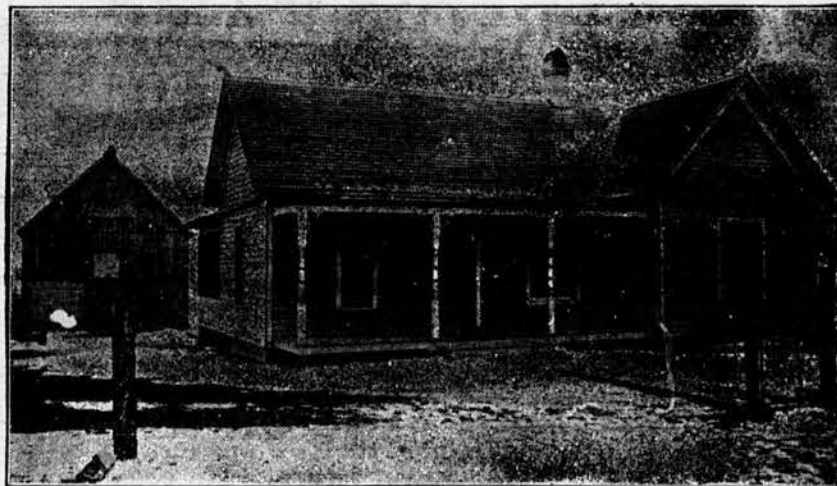
Frank Elder, Green, Kan.

Auctioneers—Frank Zaun, James T. McCulloch.

IMPROVED HOG FARM AT PUBLIC AUCTION.

I wouldn't like to rent the home of old King of Cols. 2nd and G. C.'s Col. to some scrub fellow that would let the pens grow up to weeds and the hog houses become the abiding place of bats and owls, so I am going to sell it to some good farmer or breeder, the price to be fixed by competitive bidding, just as it is on the hogs.

The farm contains 40½ acres, and two 50-foot lots where the residence stands. The house has 5 rooms, water in house, cellar, etc. Barn for 12 horses, with mow for 15 tons of hay. Hog house 24 by 36, with granary attached for 1,500 bushels; big cow barn and hen house. All under hog fence; 20 acres alfalfa, rest in alfalfa until last spring; practically new farm land. Plenty of young fruit trees.



PICTURE OF HOUSE AND BARN ON THIS FARM.

Green is a town of 400 inhabitants, good graded schools, three churches, City hall, etc.

Easy terms will be made on this property. Write for circular giving full information.

Jesse Johnson will attend this sale. Send all bids to him.

GRIFFITH'S

MASTODON POLAND China Bred Sow Sale

At Farm, 4 Miles Southwest of Riley and 7 Miles Southwest of Leonardville, Kan.

Monday, Feb. 5th, 1912

40—HEAD OF CAREFULLY SELECTED INDIVIDUALS, NEW BLOOD FOR THESE PARTS—40

3 Tried Sows—32 Spring Gilts—5 Summer Boars.

Females bred for March and April farrow to Big Bone Pete, bred by Peter Mouw and John Osborne by Big Osborne by Osborne Perfection, the 1,200-pound boar. His dam was Lady Mastodon 14th, a sow of note. The tried sows are mostly by a big boar, Med. Colossus, he by Longfellow, dam by Prince Wonder. The gilts were mostly sired by Commander 55105, by Expander, he by Prince Wonder. The dam of Commander was the great sow, Star Miss, by Orange Price, all of Mouw's breeding. A large per cent of the gilts are out of the noted big three sows now in the herd. They are noted sows individually and sired by Mastodon's Best, bred by W. W. Wheeler, of Harlan, Ia. Their dam had a 11-inch bone, and was a daughter of Price Wonder.

Free transportation to and from the farm sale day. Write for catalog. If unable to attend, send bids to fieldmen or auctioneers.

J. L. GRIFFITHS, RILEY, KAN.

Auctioneer—James T. McCulloch.

Jesse Johnson will attend this sale. Send bids to him in my care.

THOMPSON BROTHERS

BIG SMOOTH POLAND China Bred Sow Sale

—In Pavilion At—

Marysville, Kan., Tues. Feb. 6

10 TRIED SOWS, BRED FOR FEBRUARY, MARCH AND APRIL FARROW. 30 SELECTED GILTS,

mostly by Big Chief by Chief Hutch, he by Hutch, Jr. His dam, April Maid, was full sister to Utility, the sow that produced the noted litter for Halderman last year. Others are bred to Big Monarch, by Mogul's Monarch and out of Big Lucy; a few to Bell Boy, by Bell Expand, by Bell Metal. Among the tried sows will be daughters of Captain Hutch, and out of Maud Perfection, the sow that produced our \$200 gilt. A large number of the gilts were sired by Big Tom, a good son of our former herd boar, Big Hutch; others by Monarch. They are out of splendid dams, among them daughters of Captain Hutch, Flashy Metal, Blue Valley Look. One choice gilt by Bell Metal and a few by Mogul's Monarch. The offering will be all right for size and quality. We have marketed the culls and will offer nothing that is not worthy. We invite all of our old customers, and everyone else, to attend, either as buyers or visitors. Write any time for catalog.

Thompson Bros., Marysville, Ks

Auctioneers—James T. McCulloch, F. E. Kinney.

Jesse Johnson will represent Kansas Farmer. Send sealed bids to him in our care.

FUHRMAN & SON'S

Fourth Annual Duroc Jersey Bred

Sow Sale

AT

Eureka Stock Farm, Oregon, Mo.

WEDNESDAY, FEB. 7, 1912

40—HEAD OF HIGH CLASS SOWS—40

The select tops of our large herd. The offering will consist of 16 extra high class fall yearlings, 8 tried sows, all of the best brood sow types, and 16 spring gilts, the tops of 60 head. Among the tried sows will be daughters of S. D.'s Inventor, Oregon Chief, King of Ore. and Ira J., all great boars. Fall sows sired by King of Ore., spring gilts by King of Ore. and Fond Defender. The dams of the offering are Col. Top Notcher, Helen Blazes and Inventor bred sows. Sale will be held on above date regardless of weather conditions. We have a great offering this year, and will be pleased to have our breeder and farmer friends with us on February 7. Write us for catalog. All bids sent to fieldman or auctioneers, in our care, will be carefully handled.

EDW. FUHRMAN & SONS,

AUCTIONEERS—COLS. A. W. CIES AND R. C. BENTON. W. J. CODY, FIELDMAN FOR KANSAS FARMER.

Oregon, Missouri

HALDERMAN'S

Gold Metal Poland China

Bred Sow Sale

At Farm, Adjoining Burchard, Neb.,

Wednesday, Feb. 14th, 1912

FORTY HEAD IN ALL—7 tried sows and 3 gilts bred to the great Gold Metal. The remainder of the gilts are mostly daughters of Gold Metal. Everything bred for last of February and March farrow. Other boars to which offering has been bred is Young Victor by Big Victor, Melbourne Jumbo by Jumbo the Great, and one of the top boar pigs sold last fall. Others are bred to Gold Metal Son, by Gold Metal, a great young boar now heading the herd of J. A. Countryman & Sons of Rochelle, Ill. The offering is a very select one and includes some outstanding good things, including the tried sow, Utility 2nd, out of Utility, the dam of the noted litter sold at my fall sale, which included the Countryman boar. A litter sister to this boar is also in the sale. One Gold Metal fall gilt is good enough to have a home in any herd in America. I am also putting in Beauty Golddust by Golddust Chief. She will be safe for an early litter to Gold Metal. Other sows and gilts are of Hadley, Big Tec. and Great Look breeding. Sale will be held in heated pavilion of farm. Write early for catalog.

JOHN C. HALDERMAN, Burchard, Nebr.
Auctioneer—Frank Zaun. Jesse R. Johnson, fieldman for Kansas Farmer.

BIG TYPE

POLAND SALE

70—HEAD OF BRED SOWS AND GILTS—70

AT

Garnett, Kansas
Wednesday, Feb. 7, 1912

In a heated sale pavilion, between the two depots, I will sell at public auction 10 tried sows, 31 big fall yearling gilts and 29 big, stretchy spring gilts, all of strictly big type and breeding. Nearly all are bred for early litters to the best boars I can buy, Kansas Hadley by Big Hadley; Joe Bowers by O. K. Price; Kansas Ex by John Ex and Long Chief by Wales Mo. King blood represented. The tried sows are Kansas Queen 2d by Neb. King; Pansy Pan by Expansion; Big Beauty 2d by Long John; Miss Wedd by Wedd's Expansion; Grand Lady by Grand Look; Hull's Model by Hadley Boy; Long Jane Lady by Chief Golddust; D.'s Made Right by Designer; Wedd's Maude by Wedd's Expansion; June Girl by Hadley Boy, and Stylish Lady by One Price. Four fall yearlings by Wm. Garnett; 27 fall yearlings by Hadley Boy.

The pick of my herd goes into this sale. Send for catalog.

G. M. HULL & BEAN,
Garnett, Kansas

Auctioneers—Cols. Harriman, Bean, Rudisill and Baker. Fieldman—O. W. Devine.

MENTION KANSAS FARMER WHEN YOU WRITE.

THE KANSAS PUBLIC SALES COMPANY

Will hold their combination sale of draft horses at the stock pavilion, Fair Grounds, Topeka, Kan., February 27 and 28, 1912. This sale will consist mainly of draft horses, but a few of other breeds can be sold. If you want to join this sale, inform us at once, as the number of replies to this advertisement will determine the advisability of holding the sale. Terms reasonable. O. P. UPDEGRAFF, MANAGER.



PERCHERONS, SHIRES, BELGIANS
OUR STALLIONS ARE SELECTED IN EUROPE WITH AN EYE-SINGLE TO THE WANTS OF THE MOST CRITICAL AMERICAN BUYERS.

They are big, smooth flat-boned fellows, with great quality, style and conformation—with good color and dispositions. They were selected from the oldest breeding farms in France, England and Belgium, and their breeding stands back of them for thirty generations. They will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Our contract of guarantee is as good as a government bond. Our prices are reasonable. Send for big illustrated catalog and letters from hundreds of satisfied customers.

De Watson, Woods Bros. & Kelly Co., Box 34, Lincoln, Nebraska.

FRANK IAM'S' PARIS WINNERS



Are the real "medal winners"—"show horses of note"—"sensational"—"ripe peaches" from the "select 400." Big, Classy, "Peaches and Cream"—"Black Boys." The "Iams Brand" of Drafty "top-notchers." Iams' 1911 Importation of Percherons and Belgian stallions and mares have arrived by "Special train." "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" (and good for 50 years more). Iams is "pushing" his horses to the front. The big "Peaches and Cream" "Boys and Girls" are attractions that can't be overlooked. Iams mesmerizes 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—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 "Eyeopeners." 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 ointment" in the horse world. "He keeps the Gang guessing." "He is up-to-the-minute." Iams' "daily Horse Show" will be a day of "profit and pleasure," and worth going 2,000 miles to see. Iams sells only "prize-winners" and best big drafters. He sells no "International tail-ends." No "Auction stuff" or "peddlers' horses." No American so-called full-bloods with questionable breeding (only imported horses). 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. 1911 was Iams' best business year. 1912 promises to 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 HONOR." A BOY OR A LADY

can buy as cheap as a man. Iams, the "square deal" horseman, makes every statement in ad. or catalog good—or you get the \$500 he hangs up. Iams guarantees to sell you a better imported stallion at \$1,000 and \$1,400 (few higher) than are sold to stock companies for \$2,500 to \$5,000. Imported mares, \$700 and \$1,000. Iams gives 60 per cent Breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance at 8 per cent. IAMS buys and sells every stallion himself. Saves buyers \$1,000 in commissions and middlemen's profits. He buys stallions by "trainload." He speaks the languages—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 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 catalogue. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the

(saving 20 per cent). He is not in the "Stallion Trust." He pays no "Slick Salesman" a commission to help "do you." He has no 2 to 10 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 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 catalogue. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the

ST. PAUL, NEBRASKA

S. N. HODGSON & SONS

—ANNUAL SALE OF—

Big Husky, Big Bone Poland Chinas

—AT—

Parker, Kansas,
February 9th, 1912.

FIFTY HEAD FIFTY

tried sows, fall yearlings; some early spring gilts and a few boars. The sows are sired by Standard O. K., Hadley Boy, Orphan Chief, Big Victor, Grand Look 2d, Thousand Pound Jumbo, Blain's Wonder, The Lion, Bean's Wonder, John Long, Hutch, Jr., Logan Ex. and Prince John. None of these sows are over 2 years old and are the best bunch I have ever offered, and we want all farmers and breeders to attend. Twenty head are bred to the great breeding boar, Standard O. K. by O. K. Price, by Price We Know, and out of Standard Lady. Twenty head are bred to Metal Victor, by Big Victor and out of Metal's Fancy. Ten head are bred to Black Expansion by The Lion, he by Mammoth Ex. My catalogs are ready to mail out. Send for one and come and spend a day with us. If, for any reason, you cannot come, bids may be sent to O. W. Devine, in my care, who will buy for you. For catalog, apply to

S. N. Hodgson & Sons
Parker, Kansas

AUCTIONEERS—COLS. F. J. ZAUN, J. W. SPARKS, S. L. JACKSON.
Sale held right in town in good, comfortable pavilion.

L. V. OKEEFE

POLAND CHINA SALE

At Stilwell, Kansas,

FEBRUARY 14th, 1912

FIFTY bred sows and gilts, the big, practical kind, bred for early litters. Thirty head are bred to Big Logan Ex., sired by Mammoth Ex. Twenty are bred to Grand Look, J. R.'s Model by Grand Look, Jr., and Logan B. Most all my herd is immuned. The blood lines of my sows are from the following sires: Designer, Grand Leader, Orphan Chief, Kansas Wonder, Grand Look, Jr., Mammoth Ex. and Silver Metal. Catalogs are ready. Send for one. Sale will be held in Stilwell, Kan. For catalog, address me at Bucyrus, Kan. Bids may be sent to O. W. Devine or either auctioneer, but we will be pleased to have all farmers and breeders come and spend a day with us.

L. V. OKEEFE,
Bucyrus, Kansas

AUCTIONEERS—COLS. R. L. HARRIMAN, JAMES W. SPARKS, ANDY JAMES.

January 27, 1912.

FIELD NOTES

FIELD MEN.

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

PURE BRED STOCK SALES.

Percherons and Jacks.
Feb. 28—McKinnis & McMillan, Beloit, Kan.
Feb. 29—John T. Fry, Udall, Kan.

Jacks and Jennets.
Feb. 26-27—G. C. Roan, La Plata, Mo.
March 5—L. M. Monsees & Sons, Smithton, Mo.
March 6—W. J. Finley, Higginsville, Mo.

Herefords.
Feb. 27-28—Jones Bros., Council Grove, Kan.

Holstein-Friesians.
Feb. 6-7—Rock Brook Holsteins, H. C. Gilssman, Station B, Omaha, Neb.

Jersey Cattle.
Feb. 17—F. W. Comfort, Westmoreland, Kan.
April 25—Sale at Hiawatha, Kan., Western Jersey Cattle Breeders' Henry E. Wyatt, Falls City, Neb., Manager.

Shorthorns.
Feb. 22—C. E. McKinnis, Beloit, Kan.
Feb. 24—R. E. Maupin, Pattonsburg, Mo.

Association Sale.
Feb. 8-9—The Kansas and Oklahoma Improved Stock Breeders' Sales at Caldwell, Kan.

Poland Chinas.
Feb. 1—W. B. Wallace, Bunce, Mo.
Feb. 2—Bert Harriman, Pilot Grove, Mo.
Feb. 3—Baker Bros., Butler, Mo.
Feb. 4—J. L. Griffith, Riley, Mo.
Feb. 5—H. B. Walters, Effingham, Kan.
Feb. 6—Thompson Bros., Marysville, Kan.
Feb. 7—John B. Lawson, Clarinda, Ia.
Feb. 8—G. M. Hull & Bean, Garnett, Kan.
Feb. 9—J. O. James, Braddyville, Iowa.

Feb. 22—Jasper Auldridge & Son, Pattonsburg, Mo.
February 24—J. R. Blackshire, Elmdale, Kan.
February 26—Ward Bros., Republic, Kan.
February 27—Monasmith, Formosa, Kan.
Feb. 28—Leon Carter, Asherville, Kan.
Feb. 28—G. C. Norman, Winfield, Kan.
Feb. 29—J. W. Wohlford, Waterville, Kan.
March 12—Sam Drybread, Elk City, Kan.

Hampshire Hogs.

Feb. 14—W. F. Davis, South St. Joseph, Mo.

The Kansas Public Sale Company, Topeka, Kan., are advertising in this issue that they will hold another sale February 27 and 28 next, providing they receive proper encouragement from those having horses to sell. Consequently, if you wish to join this combination sale or to see it held, it will be necessary to notify the manager at once. Their draft horse sale last year, advertised in this paper, was a very successful one, and the conditions are not as favorable this spring as last, perhaps, yet we can see no reason why a sale the last of February should not be held. It's only a question of enough entries to justify holding it. The terms are as reasonable as can be made. Write O. P. Updegraff, Manager, Topeka, Kan., and "Do it today."

Attention is called to the advertising card of C. W. Lamer, the big horse importer, of Salina, Kan., who is offering some bargains in Percherons and Belgians. His barns are right in town and it is an easy matter to see his stock. With the quality of horses and the prices he is making on them they ought to go like hot cakes. Mention Kansas Farmer when you write.

Fuhrman & Son's Duroc Jersey Sale.

The sale advertisement of Edw. Fuhrman & Sons appears in this issue of Kansas Farmer. This is Fuhrman & Son's fourth annual sale of Duroc Jersey bred sows, and they have an offering this year that will appeal to breeders and farmers wanting good breeding and choice individuals. Their catalogued offering will consist of 40 head, as follows: Eight tried sows, daughters of S. D.'s Inventor, Oregon Chief, King of Ore., Ira J.'s and Son's Pride. They are a choice lot of individuals of the ideal brood sow type and are just in their prime. They have been tried and have made good. Sixteen fall

sire of herd headers. Sixteen tried sows, bred to this boar, will be in this sale. The best lot of spring gilts ever offered by Mr. Lawson will also be in this sale. They were sired by Long King's Equal and are bred to a Wonder Jumbo. Send for catalog, and arrange to attend one of the biggest sale events of the season.

In this issue of Kansas Farmer Mr. A. L. Albright, of Waterville, Kan., is offering \$9 bred Poland China gilts of the big, smooth, prolific kind. Prolific! yes. Last spring eight sows farrowed 75 pigs; biggest litter, 14; next, 12. Right good for Poland Chinas. Now if you want some of this kind, write Mr. Albright. He will be glad to answer questions about his hogs. Will you kindly mention Kansas Farmer when writing?

Last Call for James' Sale.

Wednesday, February 7, is the day that J. O. James of Braddyville, Ia., will sell his great Big Orange and Pawnee Lad offering. Fifty head of bred sows sired by the most noted big type boars will go in that sale. A large number of them are bred to the famous Big Orange. Many of them are tried sows that have made Mr. James' herd famous. Among them are Anna Price 3d, sired by Pawnee Lad, dam Anna Price 2d; James' Choice, sired by Pawnee Prince by Pawnee Lad, dam Anna Price 2d; Lady King by Long King; Lady Giances by Max Dude; Extra Good by Pawnee Lad; Gilts by Pawnee's Last by Pawnee Lad, out of Big Marie; gilts sired by A Wonder; gilts by Long King's Equal; others by Big Sensation, making the greatest of Mr. James' great offerings.

Inside Information About Tanning Hides for Coats and Robes.

Your cow, steer and horse hides when converted into fur coats, robes and rugs are far better and cheaper than anything you can buy. There is no humbug about such goods. You know what they are when you furnish the material from which they are made. See the advertisement of the Crosby Frisian Fur Company, of Rochester, N. Y., in another column. These people—who are large and ever increasing business in custom tanning, due to the fact that they not only understand their business, but treat their patrons right. See their advertisement in another column and if interested get their illustrated catalog.

takes real pride in selling "Prize Winners" at less money than competitors sell "Ordinary horses." Iams is a big fly "In the Jelly." In the "Horse World" he stirs up the animals and there is always "Something doing" at "Iams' barns." You will get the fever if you visit him. Iams is "Up to the minute" as Judge, Buyer and Salesman. Iams made the "Biggest killing" of his life in his "1911 buy." He bought larger and better horses, more Paris and Brussels winners—more "Topnotchers," and at his own price. "Hot weather"—"Bad crops"—Close Money. "Iams' ready cash." No competition in October and November, made Iams "Cock of the Walk." As there were only about 1,000 horses imported in 1911, or as one-half the number as in 1910, don't be "The Lobster," be the "Wise Guy," buy horses of Iams now; be the "Early bird," get the "Big Snaps," Iams cut the "middle out of the melon" in buying, and he is giving his many buyers the benefit of his "Big Killing" by selling better horses for less money than ever. "Ikey, Boy," "Come on along," Sing Iams' song. Buy Iams "Tops." He has competitors "Skinned a City Block," and Iams is selling clothes to fit all buyers. "Big Ikey," you take no chances in buying Registered Stallions or Mares of Iams. He sells horses "on honor." (He don't need the money) and his life has been "One continual round of Glory" in selling larger horses of real quality and real registered "full bloods" to his customers. (No "American full bloods" of questionable breeding at Iams "town of Barns." Iams sells imported horses, and they are all approved, branded and inspected and their "Certificate of registration" are marked O. K. (Are real full bloods and registered) by the governments of France and U. S. A. And Iams says it's so and that is—the real "Peaches and Cream." It makes it so. "Ikey Buyer," buy a through ticket to Iams, St. Paul, Nebraska TOWN. He will treat you on the square. Ikey Boy, Buzz around Iams town of barns; they are filled to the roof with new, fresh importations of 120 stallions and mares, 2 to 6 years old, weight, 1700 to 2500, 90 per cent blacks. Iams' sell his "Show horses" annually. He buys new and better ones each year. For 30 years Iams has been "buzzing" the heads of the "gold brick stallion salesmen" with better and larger stallions, forcing the breeder and importer with inferior stallions and mares to sell them on the "Auction block" as the last resort. And "Ikey, boys," no



Iams and pair of "Topnotchers"—"Peaches and Cream"—Paris Winners—Models of 120 Imported Stallions and Mares that Must be Sold in 1912 by Iams, St. Paul, Neb. All His Horses are Branded, Approved, and Certificates "Inspected" and Marked O. K. by Governments of France and U. S. A. You Take No Chances if You Buy of Iams, the Reliable Importer.

Feb. 7—Albert Smith & Sons, Superior, Neb.
Feb. 9—S. N. Hodgson, Parker, Kan.
Feb. 10—C. S. Nevius, Chiles, Kan.
Feb. 14—H. L. Faulkner, Jamesport, Mo.
Feb. 14—John C. Halderman, Burchard, Neb.
Feb. 14—George Wedd & Son, Spring Hill, Kan.
Feb. 15—Dr. John Gildow & Sons, Jamesport, Mo.
Feb. 15—Ira C. Kyle & Son, Mankato, Kan.
Feb. 16—L. V. Okefe, Bucyrus, Kan.
Feb. 16—J. H. Harter, Westmoreland, Kan.
Feb. 17—Fuller Bros., Gault, Mo.
Feb. 20—E. E. Logan, Beloit, Kan.
Feb. 20—J. D. Spangler, Sharon, Kan.
Feb. 20—J. R. Nave, Gardner, Kan.
Feb. 21—W. A. Prewett, Asherville, Kan.
Feb. 21—G. S. Hamaker, Pawnee City, Neb.
Feb. 22—C. W. Jones, Solomon, Kan.
Feb. 22—A. J. Erhart, Adrian, Mo.
Feb. 23—R. E. Maupin, Pattonsburg, Mo.
Feb. 24—C. H. Plicher, Glasco, Kan.; sale at Concordia, Kan.
Feb. 27, 1912—L. R. McClarnon, Braddyville.
Feb. 28—J. W. Pfander & Sons, Clarinda, Ia.
March 2—F. W. Barber, Franklin, Neb.
March 6—T. M. Willson, Lebanon, Kan.
March 7—W. H. Emens, Elmdale, Kan.
March 9—B. M. Bell, Beattie, Kan.

Duroc Jerseys.

Feb. 7, 1912—Frank Elder, Green, Kan.
Feb. 7—Fuhrman & Sons, Oregon, Mo.
Feb. 8—Samuelson Bros., Cleburn.
Feb. 9—Samuelson Bros., Blaine.
Feb. 12—J. O. Hunt, Marysville, Kan.
Feb. 14—Thompson Bros., Garrison, Kan.
Feb. 15—Horton & Hale, DeKalb, Mo.
Feb. 15—Grant Chapin, Green, Kan.
Feb. 15—Robert I. Miller, Table Rock, Neb.
Feb. 17—John W. Shuck & Sons, Burr Oak, Kan.

yearlings sired by King of Ore. They are a lot of big boned, high class yearlings of the right type. The spring gilts are the tops of 60 head. They are daughters of King of Ore, and Fond Defender. The dams of the entire offering are Col. Top Notcher, Helen Blazes and Inventor bred sows. A part of the offering is bred to King of Ore, others to Fond Defender, and some to Wonder Chief, three great Duroc boars, all with good breeding records. King of Ore was sired by Prince Wonder, dam Helen Blazes. Fond Defender was sired by Defender, dam Fond Memory. Wonder Chief was sired by P. & A.'s Wonder, dam Chief's Maid. They are big boned, mellow boars, with plenty of class, and all have made good as breeders. This will be one of the good Duroc Jersey offerings of the season. Write for catalog and arrange to attend the sale. Please mention Kansas Farmer when writing.

When you buy a watch, think of the value of the case as well as of the works. As the Keystone Watch Case Company points out (see our advertising columns) there are many ways in which a gold filled case can be debased without arousing the suspicions of the purchaser. Your only protection, as a consumer, is to see that the case of your watch bears the Crescent or the Jas. Boss, trade mark, endorsed by the responsible jewelry trade. Every representative jeweler in this country carries the Crescent and Jas. Boss gold filled watch cases.

Last Call for Lawson's Sale.

Poland China breeders should not overlook John B. Lawson's Long King's Equal and A Wonder Jumbo bred sow sale at Clarinda, Ia., Tuesday, February 6. This will be a sale feature of this sale season, and every breeder knows the record of the great, big type boar, Long King's Equal, the

Iams, the Horseman.

Iams, the "Peaches and Cream" horseman, is making a "big bid" for your business in 1912. Iams made the "Biggest Buy" of his life in October and November, 1911. He made a "Sensational Killing." Bought Paris and Brussels winners and extraordinary "Business Horses" at his own prices. All horsemen know Iams is the "King Bee"—"Peaches and Cream"—horseman, who owns and imports more real "Topnotchers" than any man in the United States, and sell more horses than any 10 men in America at private sale. His fancy "Paris and Brussels" prize "Winners" at the leading European "Horse Shows," are "Best Ever." His low prices and "wide-as-a-wagon" "drafters" are more popular than "Alexanders Rag." "Come-on-along." You will sure buy a "Topnotcher" of Iams. "Ikey, Boy," get busy, quick; buy "Show and Business" horses of Iams today. He has the best bunch of "Topnotchers" ever offered for sale. Iams is taking the curl out of "High Prices." Visit him and you are his buyer. Iams' importations of Percheron and Belgian stallions and mares are the "Big Noise." "Eye-openers," "Sensational," "Show Horses," and "Business Stallions." "Par Excellence." All in the "Pin! of Condition," and ready for quick selling at reduced prices. Iams' Big Drafty, superb horses are making buyers. "Come-on-along" and see Iams and his Horse show and his "big bargains." His "Live Wire" drafters and his reliable business methods make buyers visit Iams, and he sells them horses. "Iams' horses are the best salesmen." Iams 30 years' importing horses, and selling over 3,000 at St. Paul, Neb., (making 50 trips across the ocean), makes him an "Expert Judge" and most "Critical Buyer." Iams delights in buying the "Topnotchers"—"Worth the coin," and he does it, and he

first-class stallions or mares are sold by "Peddlers" or on the "Auction block." Iams guarantees to sell a better stallion at \$1000 and \$1400 (some higher) than are being sold to farmers' stock companies at \$3000. If you don't find this so, you can have the \$500 Iams hangs up. It's not because your Sweetheart is the "Swellest Girl" that Iams tells you this in his "ads" of money he will save you. He wants your business. That's why he advertises. He wants a "\$1000 or \$1500 smile" and your visit. He will make the "wheels of business" go round. Iams can place \$1500 insurance. He is an "easy man" to do business with, and his horses are so good they sell themselves. You say, Why can Iams sell better stallions at half the price of others? Iams buys and sells every stallion himself at his home barns. He buys stallions by "special trainloads," 100 at a time. He speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick salesman" \$1000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions. He sells stallions by "hot advertising" and having the "goods" to make every statement good. Iams will save you \$1000 or more in commissions. All of Iams' "show horses" are for sale. Iams' "selling clothes" fit all buyers. Write for his 1912 Million Dollar Horse Catalog and eye-opener, "a humdinger"—just out.

"Now, Willie," said the teacher to a pupil, "listen to me very carefully. If I had five eggs in this basket and laid three on the table, how many eggs would I have?"
"Eight," was the cheerful answer.

GREATER CASE 40

**Backed by a 70-Year-Old Reputation
and \$40,000,000 Capital**

This car we regard as the crowning achievement of a company which for seventy years has stood at the head of manufacturers of the highest type of machinery. It is a quality product from first to last and, by all standards of comparison, the greatest value in an automobile on the market today. The Greater Case is great in size and magnificent in appearance. It has all the elegance and style and luxurious comfort of cars that cost a fortune. But the dominant factor in its supremacy is hidden under the hood.

—IT'S THE CASE ENGINE!

The Case is known far and wide as the car with the

famous engine. This engine embodies advanced ideas found in no other make—ideas that have been worked out with consummate skill and infinite care and patience.

It took eighteen years to perfect the engine that makes the Case supreme.

These eighteen years, devoted to designing, experimenting, refining, improving and perfecting this wonderful engine, have brought forth what we believe to be the masterpiece of America.

An engine so simple, compact, silent, accessible and powerful that its equal does not exist.

"The Car With the Famous Engine"

Our Mighty Engine

These statements, coming as they do from one of the most conservative manufacturers in the world, are based on the actual performance of the engine. It is due to this extreme conservatism that we rate as a 40 horsepower, an engine that shows 52 horsepower on the brake test. This is the same type of engine that carried the Case "30" to victory and fame on race tracks, durability runs and hill-climbing contests galore.

The Handsomest Car at Any Price

The Greater Case is big and roomy, with a straight line body and sweeping lines that give symmetry and grace. It is richly finished and upholstered, handsomely trimmed, luxuriously appointed, and up-to-the-minute in style.

Wherever seen, in country touring or on the city boulevards, its splendid lines and stunning style command universal admiration. No modern car at any price surpasses it in appearance.

And its perfect balance and long, strong springs, make it by far the easiest riding car.

The Car for Service

Case Cars are always ready to go. The engine always runs.

The Case Car is built throughout of the finest materials available in automobile construction, by a highly-skilled factory organization, in a plant whose mechanical equipment is unexcelled.

70 Years of Making Good

Back of Case Cars stands the 70-year reputation of a company whose products have always made good.

J. I. Case machinery was famous for quality when your grandfather was a boy.

Self-Starting Motor

The Case Eagle On Your Car

This emblem on an automobile has the same significance as the **STERLING MARK** on silver. It stands for highest quality and a guarantee that protects it places at the disposal of the owner of a Case Car our

Nation-Wide Case Service

We have 10,000 Case Agents and 65 big Branch Houses scattered throughout the United States and Canada. All of our vast army of agents are equipped to promptly take care of Case Cars.

Wherever you carry the Case Eagle you may be assured of a welcome, hospitable treatment and fair dealing at the hands of the Case local agent. He will furnish you with information on the best roads, hotels, etc. No other automobile concern in the world can duplicate Case Service.



And for three generations that high standard of quality has steadily been maintained.

You want a car that will *last*—not one that will be down-and-out in a year. We are not competing with the cheap, "one-year" cars with which the market is flooded.

We are building cars for those who demand the utmost limit of durability and service and are glad to pay an honest price for full measure of honest value.

The Greater Case is a high-grade car at a medium price. Fore-door ventilation—36x4-inch tires—120-inch wheel base—three-quarter elliptic springs—11-inch clearance—4½x5¼-inch cylinders—Rayfield carburetor—dual ignition—Brown-Lipe transmission—Timken full-floating axles—cellular-type radiator—regulation trim-

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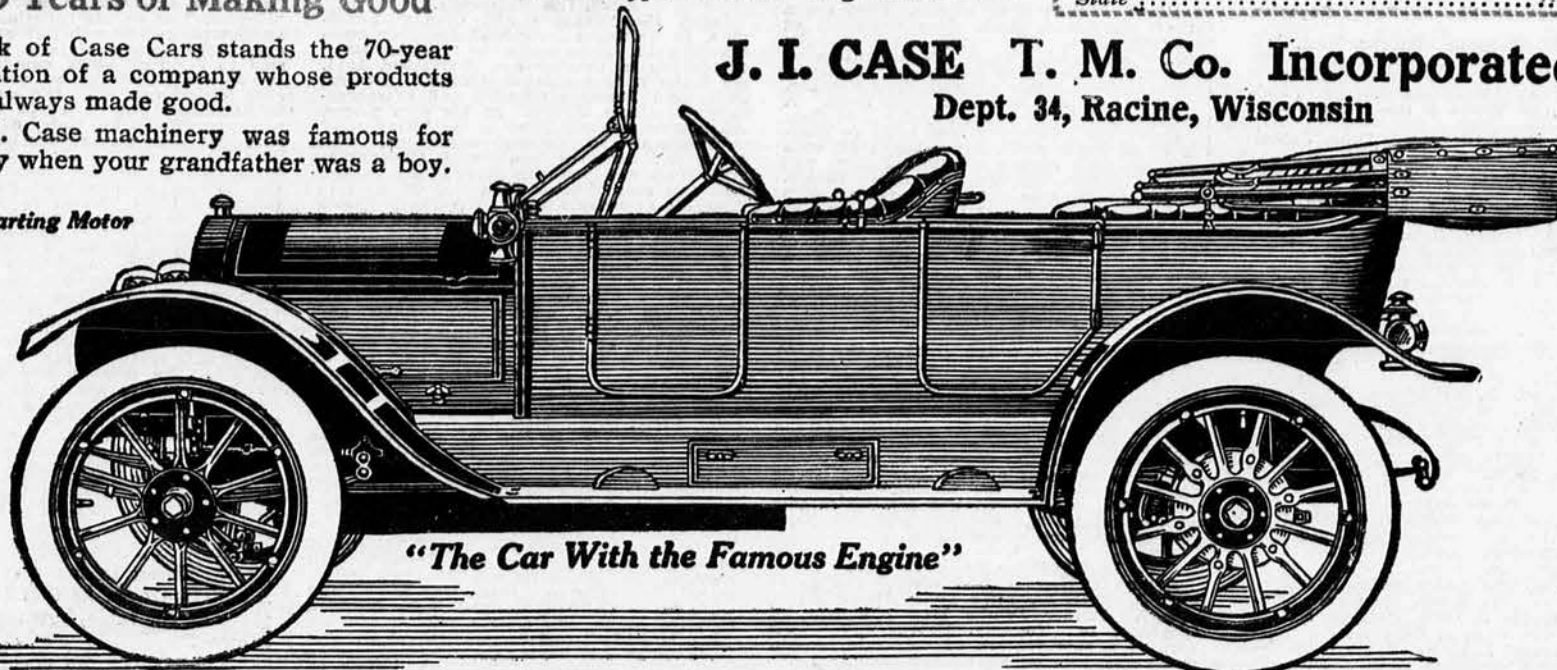
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