# KANSAS TAKMEK of the Farm and Home

Volume 51, Number 24.

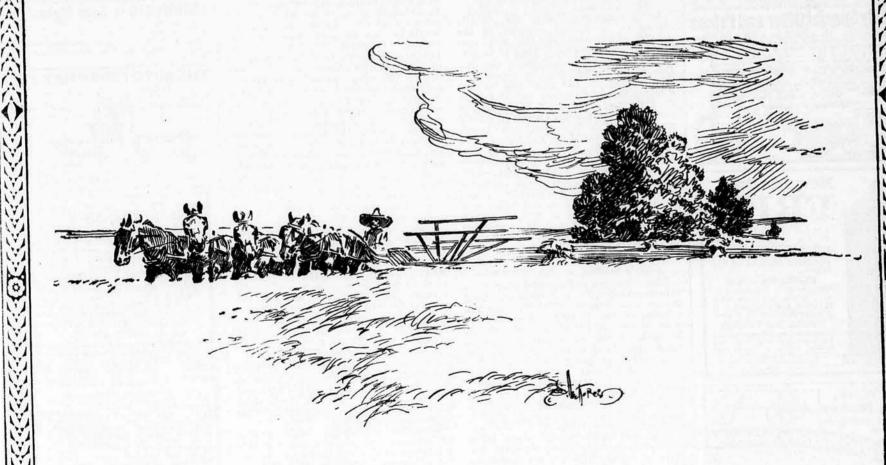
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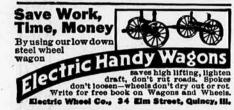
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## Experience with Pit Silo

Points in Their Construction Necessary for Success—Dimensions and Capacity

MANY readers have in the past few months asked KANSAS FARMER for information regarding the construction of pit silos. Most of these inquiries have come from the western third of Kansas, Eastern Colorado and Western Oklahoma. For the most part the inquirers have stated that it is not feasible for them to construct any other kind of silo. Also that the absence of rock and water make it practicable to construct pit silos if the same are satisfactory. Some of these inquiries have been answered through the columns of KANSAS FARMER. It should be understood, however, that the editor has had no personal experience in the construction or the use of such silos. The in-formation given has been such as we have obtained from persons who have constructed and used such silos. To pro-vide our readers with the best detailed information possible, we print this article from Ed Wray, Norton County, who last year built several such silos, who has used them successfully, and

who writes out of his experience.

Here is given a partial list of standard sizes, also their approximate capacity, 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:

. F		****	ESTIMATE		
DEPTH	DIAMETER	CAPACITY	NUMBER		
FEET	FEET	Tons	OF CATTLE		
24	10	34	10		
26	10	38	11		
28	10	42	12		
30	10	47	13		
20	12	38	11		
24	12	. 49	14		
26	12	55	15		
28	12	61	17		
30	12	68	19		
20	14	51	14		
24	14	66	18		
26	14	74	21		
30	. 14	91	25		
22	16	76	21		
24	16	86	24		
26	16	97	27		
28	16	108	30		
30	16	119	33		
32	16	131	36		
36	16	150	42		
28	18	137	38		
28	20	170	47		
30	20	187	52		
32	20	205	57		

Be it remembered that the pit silo should in dimensions conform to the general dimensions of the silo constructed above ground. That is to say, if the farmer at 10 feet below the surface strikes solid rock, he should not stop digging at that point and so construct a silo 10 feet deep and 20 feet in diameter and consider it equivalent in preservation of silage to a silo 10 feet in diameter and 20 feet deep, even though the capacity would be the same. Ten feet is not sufficiently deep for even sile feet is not sufficiently deep for any silo. The silo should be at least 20 feet deep in order to get a settling effect which will preserve the silage. So in our judgment the success of the pit silo depends upon those conditions of soil which will permit easy excavation and so permit the construction of silos in dimensions which will conform to the general di-mensions of those built above ground.

#### WRAY'S NORTON COUNTY PIT SILOS.

I have written and am enclosing a de-I have written and am enclosing a detailed account of how I made and used the pit silo. I surely think they are the solution of the feeding problem of our western people. I think a pit silo should be made narrow—very narrow. Stock could then be put on half rations of could then be put on half rations of could then be put on half rations of the put of silage while on pasture or while using other feed without having any of the silage spoil. It costs no more in proportion to dig a narrow silo than one, and the narrow one will fit all conditions. If more capacity is needed, make another.

I do not believe uncut silage feeds can be successfully siloed in silos the shape of mine. Mine are too narrow to allow uncut roughage to pack well. Cutters without blowers or elevators, the kind needed for filling pit silos, are so cheap as to be within the reach of anyone, and the silage cut is so much easier to handle that it would not pay not to cut it.

We took a 1 x 4 board, four feet long, and near one end bored a 4-inch hole. Three and one-half feet from this we made another. Going to the place we wanted the silo we laid the board on the ground and drove a bolt firmly into the ground through the large hole. This left the end of the board with the two small holes in loose, so we could swing it around in a circle. We pushed two-large spikes through the small holes so they would scratch on the ground when we moved the board, and by this means we marked two circles. The inner circle was just seven feet in diameter and the larger one just four inches from this all the way around. We dug out this four-inch space between the circles, down to a depth of two feet. This space we filled up level with the top of the ground with a 1 to 3 cement and sand mixture, and left for 24 hours to set.

with a 1 to 3 cement and said mixture, and left for 24 hours to set.

We got an inch rope 45 feet long, two pulleys, and a barrel. The barrel we sawed in two in the middle and fastened on two bails for dirt buckets. We used a horse to pull up the dirt. After the cement "collar" had "set," we got inside it and dug down about eight feet; then we stopped and plastered the wall one-half inch thick with a 2 to 1 cement mixture. Then we dug down six or eight feet more and again plastered up. By plastering every few feet we avoided having to build scaffolding to stand on while plastering. We kept going down in this manner until we had a pit 25 feet deep. We plastered the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the bottom the same at the sides and weeklet the sides and sid as the sides and washed the whole with pure cement and water made about as thick as cream. Then the silos were done. We built two, each seven feet in

diameter and 25 feet deep.

One man did the digging, one took care of the dirt at the top, and a small boy drove the horse. It took 8½ days to dig and plaster the two silos and we paid the men \$17 for their work. Just a little less than 20 sacks of cement at 40 cents a sack was used. The sand we had, so we did not count that in the cost of making except the labor of hauling. The two silos, complete, cost me \$12.50 each ing. The t \$12.50 each.

We bought a silage cutter with 11inch knives, but without an elevator or
blower, for \$37, laid down here, freight
paid. We had a four-horse gasoline engine and it furnished ample power to run
the cutter. The cutter is rated at from
three to five tons green fodder per hour
at a half-inch cut, and will easily cut
that much. that much.

We filled the first silo half full of a mixture of corn and cane. We were afraid we would not have corn enough afraid we would not have corn enough to fill both silos, so we at first used some sorghum. Later, seeing there would be corn to spare, we did not use any more sorghum. At first we did not put in any water, thinking it was wet enough, and right there we made a mistake. The silage packed well and did not spoil, but the cows did not like it so well as they did that we put water on, for the coarse parts of the corn stalks did not soften up like it did when we used water. When we had the first we used water. When we had the first silo half full we concluded to use water, and from then on we used as much water as a 4-inch hose would siphon out of a tank into the silo and kept it running steadily while cutting. We shall use lots of water after this.

We draw the silage out with a pulley and a windlass. The bucket holds 150 pounds and has a full trap bottom. It is drawn up, the trap sprung and the silage falls into a large shallow box or wheelbarrow. A boy of 16 draws up the bucket easily. This silage has been as good as any we ever saw, and it has certainly been very cheen and also concertainly been very cheap and also convenient to feed. Great care should be taken to keep the walls true and smooth, else the silage will not settle well.

#### Try Flank Steak This Way.

Don't turn up your nose at flank steak. It is good if properly prepared. Its use will aid in reducing the high cost of your meats. Select a flank steak next time and try smothering it. This is how it may be done:

Chop one good sized onion and a tablespoonful of parsley; mix together a tablespoonful of salt and a salt spoonful of pepper. Sprinkle the bottom of the baking pan with a little onion, place on top of it the steak. Brush it with an egg slightly beaten with a tablean egg slightly beaten with a table-spoonful of warm water, and then spread with the remaining portion of onion and parsley. Add a half cupful of stock to which you have added the salt and pepper. If you have no soup stock use warm water. Place in a hot oven and cook for 30 minutes. Lift the steak, and thicken stock. Scason and steak, and thicken stock. Season and pour over the steak. This dish may be garnished with cooked vegetables.—In-



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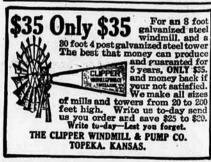


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WESTERN FARMERS' MEET.

The Kansas Dry Farming Association The Kansas Dry Farming Association which held its fourth annual meeting at Garden City recently is not taken seriously enough by the western Kansas farmer. The information presented at this meeting is the result of careful experimentation and would be of inesting perimentation and would be of inestimable value in the improvement of farm conditions through the western third of our state if put more generally into practice. Far too few were in attendance at the meeting just closed.

Walter Carter, president of the Garden City Industrial Club, in welcoming the association lamented the fact that the association lamented the factors of the farmers of Finney County so few of the farmers of Finney County even made any pretense of studying the work being carried on at the Garden City branch experiment station. For three years this station has absolutely the soil under controlled the blowing of the soil under exceedingly trying circumstances. This in itself is a remarkable attainment. Methods of soil culture which will utilize to the best advantage possible the limited rainfall of this area is a dominent factor in successful crop growing. In the addresses and discussions presented remarkable results along this line were most ably presented by such men as Dean Jardine of the Kansas Experi-ment Station; W. W. Burr, United States Department of Agriculture and many others having practical experience

along these lines.

Dean Jardine made the statement that the disk harrow was not the proper instrument to carry on the most successful fallow. The establishment of the "dust mulch" and seeing it blow away as deep as stirred has evidently discouraged many a farmer in his efforts to summer fallow. The system of farming approaching the summer fallow as hearly as conditions will warrant has hearly as conditions will warrant has been generally accorded by all our exbeen generally accepted by all our ex-perimentors. The soil with small clods on top never blows and is in a better condition to absorb the rainfall which may come than the fine "dust mulch."

The dominant point in connection with all the discussions along crop growing was that far greater attention must be given to diversified methods, depending largely on the growing of the sorghums and to a considerable extent upon summer fallow as the only sure system of mer fallow as the only sure system of growing profitable grain crops. The discussion presented but confirms the belief of the writer that the proper development of our grain and forage sorghums and their more general intro-duction over the western third of our state is one of the big things to be accomplished in the development of western Kansas agriculture.

In connection with this discussion of new crops for western Kansas condi-tions, one of the most interesting dis-cussions took place. There is little cussions took place. There is little doubt but that sweet clover will have a most important place in developing the agriculture of the West. Dr. C. O. Townsend, agriculturist for the sugar heet company, discussed the cropping methods for western Kansas conditions and stated that in his judgment sweet clover would be a God send to the western Kansas farmer. Dr. Townsend has been pushing diversified farming and the introduction of live stock as the only means of establishing a permanent system of agriculture in the west ever since he has been connected with the sugar beet company. It is a significant fact that the only spontaneous applause interrupting a speaker of the whole program was that given to the statement made by Dr. Townsend that every farmer in western Kansas ought to have a few dairy cows on his farm as a means of bringing in a steady income. A few years ago a statement of this kind would have been met with indifference by the same crowd of farmers, who enthusiastically gave their applause to the statement at this time.

If these various crops must be intro-duced into the rotation systems of the Western Kansas farmer, as we are told by those who are carefuly conducting

experimental work along these lines, it is evident that live stock must become is evident that live stock must become a far more important factor in the agriculture of the west than it is at the present time. With the introduction of the sweet clover into areas where alfalfa will not produce profitable returns a dependable source of pasture becomes available to the dairyman and the grower of other classes of live stock. It was stated in the discussion that 1,000 head of Florida cattle had been shipped to Finney County and after being 11 days on the road were turned out on sweet clover pasture and in spite of the fact that these animals had been on such scant rations for such a long period, scant rations for such a long period, there was absolutely no bloating as a result of their being placed on the sweet clover pasture. Over 2,000 head of cattle were reported to be on sweet clover pasture at the present time in Hamilton County. E. G. Finnup of Garden City has 3,000 acres of sweet clover land under his control at the present time.

With the knowledge of how to produce the various dependable feed crops in the west, it is but natural to look for renewed interest in the profitable handling of live stock under the western handling of live stock under the western Kansas conditions. A few years ago such a discussion as that presented by Professor Reed on the importance of the dairy and good cows and Professor Cochel's presentation of the breeding and feeding of live stock would have been given but scant attention by the audience present at this meeting. At this time, however, they were listened to with the greatest interest and it was to with the greatest interest and it was apparent to all present that the western Kansas farmer must more and more depend upon growing such crops as are found to be dependable and to the securing of a market for these crops in condensed form through the medium of live stock. Kafir and sorghum fodder, wheat straw are weste products wheat straw, etc., are waste products having absolutely no market value.

Another point standing out prominently in the meeting just closed was the necessity of introducing the silo as practically the only sure means of handling sorghums in such a way as to secure maximum returns in converting it into live stock products. The writer, associate editor of Kansas Farmer, discussed the economic importance of the silo for the western Kansas farmer and the facts presented found a receptive audience. The important points of this address will later be printed in these columns.

A discussion of irrigation farming came in as a part of the program. The came in as a part of the program. The irrigation farmer has been too prone to forget that water which has cost a great deal of money to place on the surface of the ground can be used to a much greater advantage if the practices of dry land farming are carefully of dry land farming are carefully studied in its conservation and use. The most significant fact standing out in the discussion of the irrigation question was the absolute necessity of a sufficient amount of irrigation on every farm to grow a dependable garden and such shrubs and trees as are absolutely necessary if homes are to be made attractive and pleasant in wes This statement came from H. B. Walker, irrigation engineer in the Kanssas Agricultural College Extension Depart-

From the standpoint of much more widely introducing the various practices found to be most promising, the introduction of the demonstration agent who travels from farm to farm, is bound to become one of the big things for western Kansas. E. C. Johnson, the state di-rector of the demonstration agents of Kansas, was present, and likewise G. E. Thompson, who covers southwestern Kansas with headquarters at Dodge City. These men told how they were carrying from farm to farm much valuable information which is now available and assisting those visited in putting into practice those fundamental things which are now known. The

writer travelled 50 miles the day preceding the meeting at Garden City, with Mr. Thompson and was greatly impresed with the reception he was given on the various farms visited. Every on the various farms visited. Every farmer is inclined to shy at the word "advice," and this is especially true of the western Kansas farmer who has been showered with advice of every kind from ever direction. Farmers it was our pleasure to visit were thoroughly alive to the fact that much information could be furnished to them by the ly alive to the fact that much informa-tion could be furnished to them by the demonstration agent which they could put to valuable use on their farms. More will be said from time to time in the columns of Kansas Farmer regard-ing the work being carried on by the demonstration agent.

John R. Crittendon of Hays, Kansas, was elected president of the Kansas Dry Farming Association for the coming year, and P. G. Dean of the same place, secretary. The meeting next year will be held at Hays City where an opportunity to study the work of the Hays Experiment Station will be open to those in attendance. in attendance.

## FIGHTING GRASSHOPPERS.

The grasshopper is at work in all sections of Kansas. He is busiest in western and southwestern Kansas. Grasshoppers probably will do more damage this year than in 1912 unless prompt and vigorous work is done to destroy them. Poison bran mash, the hopperdozer, poultry and young hogs have proved efficient for checking the ravages of grasshoppers. of grasshoppers.

Poison bran mash should be made this way: Bran, twenty pounds; Paris green or white arsenic, one pound; syrup, two quarts, oranges or lemons, three; water, three and one-half gallons.

In preparing the bran mash, mix the bran and Paris green or white arsenic thoroughly in a wash tub while dry

thoroughly in a wash tub while dry. Squeeze the juice of the oranges or lemons into the water and chop the remaining pulp and the peel to fine bits and add them to the water. Dissolve the syrup in the water and wet the bran and poison with the mixture, stirring at the same time so as to dampen the mash thoroughly. The bait when flavored with oranges or lemons was found to be not only more attractive, but was more appetizing and thus was eaten by more of the grasshoppers.

eaten by more of the grasshoppers.

The damp mash or bait should be sown broadcast in the infested areas early in the morning. The amount of bait made by using the quantities or ingredients given in the formula should cover four of five acres. As very little of the bran mash is eaten after it becomes dry scattering it broadcast in of the bran mash is eaten after it becomes dry, scattering it broadcast in the morning, and very thinly, places it where the largest number will find it in the shortest time. Sowing it in this manner also makes it impossible for birds, barnyard fowls or live stock to get enough to kill them.

On alfalfa fields to get the best re-

On alfalfa fields, to get the best results, the bait should be applied after a crop has been removed and before the new crop has started. As the poisoned bait does not act quickly, it will be from two to four days before the grasshop-pers are found dead and these will be ore numerous in the sheltered places. It does not take much poison to kill

Coal oil has been used in many ways for the destruction of grasshoppers, but is most commonly used in the hopper-dozer, a device which consists of a long, shallow, galvanized iron pan, mounted on very low runners. The hopperdozer is very effective where it can be drawn over an infested area near the surface of the ground.

On infested bare areas or fields where on intested pare areas or fields where it does not injure the crop, grasshopper damage can be quickly checked by its use. It can be used without injury in an alfalfa field for two or three weeks after a crop has been cut.

Any grade of kerosene may be used in the hopperdozer. The first cost of a hopperdozer should not be more than \$8. It should be operated at a cost not to exceed twenty cents an acre.

BREEDERS ORGANIZE.

BREEDERS ORGANIZE.

The Jewell County Breeders' Association is the last county organization of breeders effected in Kansas. This association was organized in Mankato, Saturday evening, May 31, and was the net result of the breeders' banquet on this evening. The officers elected were F. W. Veverington, Jewell City, president; W. E. Monasmith, Formoso, vice president; I. W. Kyle, Mankato, secretary; Dr. W. W. Spencer, Mankato, treasurer.

In attendance upon the banquet were In attendance upon the banquet were 150 persons, not less than 75 of these being Jewell County farmers who are engaged in the work of breeding purebred stock. The principal addresses of the evening were made by F. C. Crocker, a Nebraska breeder and a member of the Nebraska State Sentery Board the Nebraska State Sanitary Board, who discussed hog cholera and means for its checking and stamping out. The speaker was highly favorable to vaccination and expressed himself as because the stringent laws are lieving that more stringent laws are needed to enforce sanitary conditions.

J. M. Rogers, secretary of the well known Mitchell County Pure Bred Association, made a talk along the lines of the advantages of the county organiof the advantages of the county organization and its value to live stock breed-ers. His talk was full of practical sug-gestions and such suggestions were ac-ceptable from a man of experience and ceptable from a man of experience and one who has helped in safely and successfully piloting a similar organization through its different stages of development. Col. John Brennen of Jewell County, for 30 years a live stock auctioneer, spoke of the development of the live stock industry of Jewell County and said that it was the happiest moment of his life to see 75 breeders of pure-bred live stock now living within its borders. Senator E. C. Logan. in its borders. Senator E. C. Logan, one of the leading and most active members of the Mitchell County organization, also made a fine talk. Editor Knapp of the Beloit Gazette spoke also.

It is indeed gratifying to report the organization of the Jewell County breeders and to know of the auspicious circumstances under which their association has been launched. Several counties of Francisco ties of Kansas have each organized a similar associaion, the members of which are enthusiastic in behalf of the advantages of such organization. We have had much to say from time to time about the success of organizations already effected and have been urgent upon breeders of the various counties to effect such associations. Jewell County has an unusually large number of breeders and it seems strange that they had not organized earlier. It is they had not organized earlier. judgment that even though there should be a much smaller number of breeders, an organization can be made with fully as beneficial results to its members and to the county as if the number were larger. The live stock breeders of the community are as a class the foremost farmers and always of the best citizenship. With them the success and the development of the live stock industry rests. Their success cannot be hid under a bushel. Success when it succeeds is contagious. The way to build up the live stock industry is for the live stock breeders, such as they are, to organize, arouse enthusiasm and improve in their methods and business and as sure as the world moves, others

will come into the fold and be benefited.

Dr. James Law and Mrs. Law, uncle and aunt of Albert T. Reid, president of ANSAS FARMER COMPANY, celebrated their fiftieth wedding anniversary recently at their home in Ithaca, N. Y. Professor Law is a veterinarian of national reputation. Many years ago he was sent to Kansas by the Federal Department of Agriculture to investigate partment of Agriculture to investigate the dairy herd of the Kansas Agricul-ture College. He found tuberculosis and the herd was destroyed. Later he investigated black leg in this state, also for the federal department. A year ago he contributed an article to KANSAS FARMER on the horse plague then pre-vailing. Doctor Law is professor emeritus of Cornell University.

# SOIL BLOWING PREVENTION

Problem Difficult But Can be Solved-The Answer is Here Given

S OIL blowing is one of the most diffi-Soll blowing is one of the most dillicult farm problems in Western Kansas. Its chief causes are the prevailing high winds; the depletion of humus or decaying organic matter which, when present, serves to hold moisture and bind the soil together; extensive wheat raising on large tracts which would have served a better purwhich would have served a better purpose if retained in native sod or if planted to milo, kafir or other sorghums; and incorrect handling of the soil. The winds of course cannot be controlled. Therefore, when humus is removed year after year in growing grops without re-Therefore, when humus is removed year after year in growing crops without returning straw, manure or green manure crops to the land; when the native sod is broken up and large areas are farmed extensively by shallow plowing and surface disking, leaving no intervening strips of unbroken land; and when crops requiring a level seed bed are grown in preference to inter-tilled crops, such as requiring a level seed bed are grown in preference to inter-tilled crops, such as sorghum or corn which may be grown on land more or less rough, blowing naturally results. In fact some districts in Thomas, Gove and other counties in

western Kansas have become almost un-

manageable from a soil blowing stand

FUNDAMENTAL METHODS OF PREVENTION. The Department of Agronomy of the Kansas State Agricultural College for some years has advocated certain fundamental methods for the prevention of blowing. The more important of these are the preservation of these are the preservation of humus by re-turning straw and manure to the land, using it as a surface dressing on wheat using it as a surface dressing on wheat fields during the winter; increasing the humus through the use of green manure crops such as rye preceding the summer fallow; cultivating summer fallow with shovel cultivators such as the ordinary 6 or 12-shovel corn cultivator, or the beet cultivator, or with the alfalfa ren-ovator or other implements which leave the field in a rough instead of pulverized condition; cultivating only when the ground contains moisture, but is not wet, and giving only sufficient cultivation to keep down weeds and preserve a soil mulch; summer fallowing with the lister instead of plow and disk, or summer fallowing by plowing twice, once in the spring and once during the summer, leaving the field in the rough; using inter-tilled crops such as kafir, milo, other sorghums and corn in place of so much wheat and preparing the lead much wheat and preparing the land by listing east and west, or at right angles to the prevailing wind, instead of by plowing. These methods have been used efficiently in preventing blow-ing at the Western Kansas Experiment Stations at Hays, Garden City, Dodge City, Tribune and Ogallah, for several years. METHODS APPLICABLE TO LOCAL CON-

TIONS. The demonstration agents in western Kansas, thoroughly acquainted with these recommendations and methods, are emphasizing the application of one or more of these according to local condi-tions and have planned certain demon-strations which will show their practic-ability. They have therefore been mak-ing recommendations as follows: ing recommendations as follows:

(1) Wherever land sown to winter wheat is likely to blow and it is possible wheat is likely to blow and it is possible to obtain straw or manure, scatter a thin dressing over the field during the fall and early winter and go over it with a disk set straight so that the straw and manure is pressed into the ground.

(2) Where summer tillage is to be practiced, and it usually should be practiced where it is the farmer's purpose to plant winter wheat, plow the

pose to plant winter wheat, plow the land after weeds have started in the spring, till it only when the ground is slightly moist or when the soil will turn over a tree cloddy. Till only sufficiently to reter a case. ficiently to retain a soil mulch and prevent weed growth, using a shovel cultivator, alfalfa renovater or other tool the land east and west after the weeds have started, splitting the ridges later and working the land down slowly to a level condition in preparation for winter wheat

a level condition in preparation for winter wheat.

(3) Where land is to be used for sorghums or corn, list it in the fall or in the spring as soon as the frost is out of the ground; then plant kafir, milo, other sorghums or possibly corn the last half of May. Plant with the lister either by splitting the ridges or in the lister furrow or, if ridges have been worked down gradually, plant with the loose ground lister, the disk furrow opener or the regular lister. the regular lister.

By E. C. JOHNSON, K. S. A. C.

Each of the three agents in western Kansas has secured forty or more cooperators to undertake at least one of these demonstrations. In some cases a single demonstrator has undertaken all of them. In addition a number of the best farmers have been practicing similar methods of soil handling to some extent. The results obtained by these and and by the demonstrators selected by the agents already have shown that unthe agents already have shown that un-less conditions are extreme, excessive soil blowing may be prevented very largely by correct methods of farming, thus substantiating in actual farm tests the results obtained at the western Kansas Experiment Stations.

Mr. McKee, the demonstration agent Mr. McKee, the demonstration agent located at Norton, reports that many of the farmers in his territory are taking particular pains to prevent blowing of their land and do all they can to protect themselves from adjoining deserted farms that are blowing. The most effective way of doing this in his district is east and west listing of the ground adjoining their own fields. Land listed in this way does not blow to any con-

is spread upon the land the sub-surface packer or the disk set straight should be run over the field so that the straw and litter will be pressed into the ground and anchored. He also emphasizes the value of doing this early on the fields which are liable to blow as soil which has started to diff is more soil which has started to drift is more difficult to control than if the initial drifting is prevented. Listing strips east and west in the fields has also been found useful by him. Some people in his district are advecting the leaving his district are advocating the leaving of corn stalks on the ground in order to prevent soil drifting. This occasion-ally may help but he has found instances where even corn ground with the stalks on has drifted quite badly, this being particularly true on the more sandy lands. His experience also is that disking land when the soil is moist, will be quite successful in prevention will be quite successful in preventing blowing, but it must not be overdone and the soil reduced to too fine a con-

SAME CONDITIONS APPLY FURTHER SOUTH. G. E. Thompson, demonstration agent with headquarters at Dodge City, has disk covers of the drill or by attaching small shovels.

EXPERIENCE PROVES METHODS SOUND. EXPERIENCE PROVES METHODS SOUND.
The experience of some of the farmers in the districts visited by the demonstration agents therefore show that blowing can be prevented very largely by correct cultural methods and by the use of straw and manure as surface dressing. As the land is farmed year after year, however, the depletion of after year, however, the depletion of humus will continue and the chances of blowing will increase in proportion un-less some efficient method, such as the

less some efficient method, such as the growing of green manure crops, is used to return humus to the soil.

As to the law which was passed by the recent legislature giving the county commissioners in a county authority to make rules and regulations for the prevention of blowing, little has been done. Whether or not this law will help in solving this important problem in west. solving this important problem in west-ern Kansas will depend very largely up-on the officers to whom its enforcement

is entrusted.

STRIKING DEMONSTRATION IN SOIL BLOW-A remarkable demonstration of what

can be done to stop soil blowing in Western Kansas is now being made at Colby in Thomas County. Near this town there are 100 to 150 square miles town there are 100 to 150 square miles of land which has been unmanageable since April, 1912. Section after section of winter wheat then blew out and a straight wind of more than 24 hours' standing, Decoration day, 1912, completed the disaster, not only destroying the prospects for a wheat crop, but putting the land in such shape that other crops could be grown only with the crops could be grown only with the greatest difficulty. Since then much of the land has been absolutely barren except for a few Russian thistles which gained a foothold. When these matured in the fall of 1010 they also blow into in the fall of 1912 they also blew into piles against fences, houses and other obstructions and the soil covered them This spring the blown land is absolutely bare in spite of rains, the surface soil blowing easily within 48 hours after rain and whipping off any plants which may have started.

The blown area has been slowly enlarging and one after another the farmers have been driven from their land. In many places young shade and fruit trees have been completely covered up and even dwelling houses have been surrounded with drifts of soil higher than

doors and windows.

What can be done to remedy this condition? The citizens of Colby and the country surrounding have taken hold and seem to be headed in the right direction.

Through the experiences of settlers and from the results of experiments by the Kansas State Agricultural College, it has been demonstrated that much of the soil blowing can be prevented by listing the land at right angles to the prevailing winds. This has been emphasized in the farmers' institutes throughout the region and more recently by the demonstration agents, and now their labors are bearing fruit. A business man of Colby tried listing a blown piece of land in strips as a demonstration listing about four rods and leaving four rods untouched, then listing another four rods, leaving a second strip untouched, and so on over the field. He was entirely successful. He and two other citizens of Colby, land owners like himself, in symetherid. izens of Colby, land owners like himself, in sympathy with the farmers and having their full confidence, recently got together and decided that something must be done to stop the blowing. As the listing method had proven so successful, it was decided to try it over a large area in the blown district.

These men—W. D. Ferguson, J. B. Hampton and G. T. Troutfetter—began to canvass the town for money for the work. Each business man in town was izens of Colby, land owners like himself,

work. Each business man in town was assessed at the rate of 65 cents an acre for 10, 20, 40 or 80 acres apiece, according to their ability to subscribe, and almost every one "came across" until a fund of \$600 was assured to start with. Teams and men were hired to commence work May 27. At the same time a call was sent out by telephone, automobile and personal message, to as many farmers in and near the blown district as could be reached, stating that work would start on that day and would they not help. There was a remarkable response and the first day there were 45 listers with one man and four horses to each lister at work under the direction of A. O. Hemstrom, Sam Pratt and H.

(Continued on Page Nine.)

HOW to avert the damage resulting from the blowing of the fields has always been a live topic in Kansas. Years ago in Central Kansas—the very heart of the state—the problem was fully as important as at this time in Western Kansas.

The damage resulting from shifting soil has increased in the West the last five years—this because of a larger area broken out and because of the increased tendency to blow when the soil becomes deficient in de-cayed vegetable matter as a result of continued cultivation. The remedy is given in this article.

The handling of the soil as here recommended saved Central Kansasthe methods here suggested came to that section without special urging, coming with the change in farm conditions, which changes were recognized as essential to agricultural development. The western condition will ultimately be remedied in the same way. mately be remedied in the same way.

Last winter the legislature passed a law providing that the county commissioners shall take such steps as are necessary to prevent soil blowing and that the charges shall be taxed against the offending farmer. Since, many readers have written Kansas Farmer asking how they can comply with the law. This article by Mr. Johnson is the outgrowth of such inquiry. But, strange as it may seem, the central thought has been how to escape the taxes which by law may be assessed, instead of how blowing can be stopped for the good of the land and the country. This is paradoxical, sure enough. is paradoxical, sure enough.

Ja Borman

had the same experience as Messrs Mc-Kee and Boys. In some cases in his district where the ground was in wheat

siderable extent until the furrows get filled up with soil blowing in from other

LISTING ACTUALLY PREVENTS BLOWING. J. L. Romberger and Chas. Pearson, both living near Gem, in the heart of a blown district have tried hard to save their winter wheat by listing strips around their fields. This is partially effective until the furrow is filled up again, when relisting must be done. It is discouraging, however, for a man to farm his own land and then be compelled to work vacant land around him in order to save his own crops. Other men in this same territory commenced listing early in the spring and while their lands have not blown, their work n difficult at times by reason of drifting soil from other farms. Mr. McKee says "there are a number of cases in Thomas County which will show what listing will do to prevent soil blowing" and adds "if all of the blown land could be listed up at somewhere near the same time and headled. where near the same time and handled carefully afterwards, I believe the blowing could be controllled." T. W. Davitt, near Jennings, Kans., has been quite successful in preventing blowing by spreading straw over his fields of winter

DO WORK EARLY ON SUSCEPTIBLE FIELDS. W. A. Boys, demonstration agent with headquarters at Hays, reports similar conditions from his territory. His recommendations are the same as those of Mr. McKee. He emphasizes the point that when straw manure or other litter last year and where many dead weeds and other trash were on the ground, the land was double disked when moist and blowing was stopped. He has noticed a number of instances where farmers scattered straw or manure over the winter wheat fields and have effectively prevented blowing. Like McKee and Boys he feels convinced that the most efficient means of preventing blowing on land to be planted to inter-tilled crops is listing east and west and leaving the land in this condition until it is time to plant. He says "a good example of the value of listing is found on the farm of D. F. Jones, south of Cimmarron. of Cimmarron Kans. In this field Mr. Jones listed about six acres fairly early. The ex-treme high winds the latter part of March and early in April caused the balance of the field to drift badly but on the listed ground even though the dirt was blown from the top of the ridges to the bottom of the furrow it did not blow from the field and no real damage was done." Again, "on the farm of C. A. Calkins, southwest of Syracuse, listing was done. In this case it was not begun until the ground had already blown and although it was exceedingly dry, it was quite valuable." Mr. Thompson emphasizes the fact that it is quite desirable that loose soil be left in the bottom of the furrow when listing is done as this prevents the ground from drying out too much. This

can be accomplished by leaving on the

## June 14, 1913 WINTERING BEEF CATTLE

Details of Experiments Relating to Economical Winter Feeding of Beef Calves

THE problem of wintering beef cattle and wintering them most economically is one that comes and feeder each year. While the range is supplying the majority of our feeding cattle only a few encounter this problem as compared with the number that must face it in the future if the cattle feeding business continues in its presfeeding business continues in its present proportions. As time goes on the feeder must depend more and more upon the home production of his feeder

with home production of his feeder cattle.

With home production of beef cattle there comes a number of problems; e. g., maintaining breeding herds, growing calves and wintering stockers. During the grass season the feeding problem is easily solved, but if the best results are obtained the animals must be well fed and cared for during the winter months. Then comes the problem of making the most economical use of rougher feeds.

Extensive cattle feeding experiments have been carried on for so long a period of time that today sufficient data are available to solve the majority of our feeding problems. It is only right and proper that we should first solve the problems of making the most economical use of high-priced feeds. But should we wait until forced by circumstances to solve the problems. use of high-priced feeds. But should we wait until forced by circumstances to solve the problems relating to the most economical use of rougher feeds? This is what the most of us are doing. The purpose of the calf-feeding experiment begun last January was to determine the relative value of common roughages for wintering beef calves, and to compare alfalfa hay with cottonseed meal as a source of protein for growing calves.

The 50 calves in this experiment were high-grade Herefords, and produced by C. A. Johnson of Russell County. The experiment began January 21. The calves were weaned early in October and were then allowed the run of the range and stalk pasture until shipped to and were then allowed the run of the range and stalk pasture until shipped to Manhattan. During this time very little gain in weight was made. They arrived fairly thin, but in very thrifty condition, and had an average weight of 422 pounds. They were divided into five lots, ten calves to the lot, care being taken to make the lots fully comparable in weight, quality and condition. The rations fed were:

Lot 1.—Corn silage according to appetite. Cottonseed meal, approximately one pound.

one pound.

Lot 2.—Kafir silage according to appetite. Cottonseed meal, approximately one pound.

one pound.

Lot 3.—Sweet sorghum silage according to appetite. Cottonseed meal, approximately one pound.

Lot 4.—Corn silage according to appetite. Alfalfa hay in sufficient amount to make the protein in the ration equal to the protein received by the other calves.

calves.

Lot 5.—Corn stover according to appetite. Alfalfa hay the same as Lot 4. Shelled corn in amount equal to the grain in the silage fed in Lot 4.

In the first three lots is a comparison of three most common silages. This is an important question for the Kansas farmers and stockmen. If the sorghum silages are equal to corn silage in feed. farmers and stockmen. If the sorghum silages are equal to corn silage in feeding value, it means a wonderful help to the live stock interests of the state and, especially, to those dryer sections where corn must give way to the sorghums.

The next problem considered is silage versus fodder, both fed with alfalfa hay. Then comes a comparison of alfalfa hay.

Then comes a comparison of alfalfa hay with cottonseed meal as a source of pro-tein. This also is of special interest to the Kansas farmer, because there are sections where alfalfa hay can be grown in the sections it. while abundance is hard to obtain, and the farmer who has the hay wishes to know whether he can afford to feed it when he can buy can afford to feed it when he can buy come cheap, concentrated protein feed to go with his cheaper roughages. The farmer who does not have the alfalfa hay wishes to know which is the most economical feed for him to buy.

The results of this experiment may throw some light on these questions, but these results cannot be taken as absolutely conclusive, as more work of the

lutely conclusive, as more work of the same kind should be done before very definite conclusions are drawn. This is the first extensive experiment on wintering beef calves that has been conducted, and, therefore, the knowledge of the subject is tether limited.

the subject is rather limited.

A close study of the data brings out some interesting information in regard to the value of the sorghum silages for

By G. M. VESTAL, K.S.A.C

beef production. The feeding of these silages is comparatively new, and the results obtained should be of the greatest interest to Kansas farmers. The table tells the story plainly.

The report is based upon corn silage

silage. They show the increased carrying capacity of farms when silage is used. In support of corn silage it should be stated that the corn silage used in this experiment was rather coarse, as they handled the finer sorghum silages,

RATION.	LOT 1. Corn silage, cottonseed meal.	LOT 2. Kafir silage, cottonseed meal.	LOT 3. Sweet sorg. silage, cot- tons'd meal.	LOT 4. Corn silage, alfalfa hay.	LOT 5. Corn stover, shelled corn, alfalfa hay.
Original value.  Original value.  Original weight.  FEED CONSUMED: Corn silage.  Kafir silage.  Sweet sorghum silage Cottonseed meal.  Alfalfa hay. Corn stover (fed) Corn stover (fed) Corn stover (fed) Total gain.  DETAILS: Final weight. Total gain.  Average daily gain Cost of feed Daily cost, by the head. Cost of gain.  Value, hundred weight Final value by lot. Profit by the lot.	5700 lb 1528 lb 152 lb 15 lb 1	927 1b	927 lb	5748 lb 1500 lb 114 lb \$ 57.45	5912 ID 8710 ID 5792 ID 1897 ID

at \$3 a ton; kafir silage at \$2.66; sorghum silage, \$2.66; alfalfa hay, \$10; and corn stover, \$3; cottonseed meal, \$30 per ton; shelled corn, 50 cents per bushel. Cottonseed meal was the only part of the feed bought outside of Manhattan. Salt every Sunday morning. The silage was bought standing by the acre, and therefore cost a little more than it might otherwise have cost.

These results show the silages to be about equal in value for wintering beef

These results show the silages to be about equal in value for wintering beef calves when supplemented with cotton-seed meal. The gains made by Lot 4 and Lot 5 compare very favorably with those on the other lots and are apparently almost as economical. It is necessary, however, to go farther back and figure on the acreage required to produce the feeds consumed by the various lots. Counting eight tons of corn silage to the acre, it takes only about one and one-half acres to produce the silage for each of the silage lots. In addition to this approximately \$14.00 will pay for the cottonseed meal consumed. Lot four requires approximately one acre for alrequires approximately one acre for al-falfa and one acre for silage, while lot five requires an equal area for alfalfa, two acres for stover alone, and one acre for stover and corn combined. These figures show the advantage of making the result of growth and cutting. The calves could not handle it so easily as use of the entire crop as in the case of

and therefore they ate less. This dif-ference would not be expected in the case of older cattle.

The feeds were valued to suit local conditions. The valuation will not hold good for all sections of Kansas, but the feeder, by using prices suited to his community and the other data given, can figure his own problems. The value put on the feeds was high enough to cover the cost of the feeding. Compar-ing alfalfa hay with cottonseed meal, as a source of protein, it is found that the lots getting cottonseed meal made as a source of protein, it is found that the lots getting cottonseed meal made the cheaper gains. Where silage and alfalfa hay made up the ration it proved a little too laxative at times, and the scouring caused the calves to fall behind considerably. No doubt a little scouring caused the calves to fall behind considerably. No doubt a little dry roughage in addition to the hay would improve such a ration. The calves getting stover and alfalfa hay carry quite a bit more flesh than any of the other calves in the experiment. Since their gains are but very little more than that of the other lots, it would appear that the dryer ration may have a tendency to lay on fat at the expense of growth.

James Reid of Kansas City, W. J. Tod of Maplehill and V. V. Akin of Manhattan placed valuations on the calves, basing their opinions on how they will graze when put on grass this summer. The entire number of calves

made an average daily gain of 1.57 pounds during the 100 days on feed. None of the lot vary much from this figure, so conclusions are based largely on the cost of production of the feeds used to make the gains, and the cost of production must necessarily include the area of land involved. These figures have been given. The cheapness of gains cannot be overlooked. The average was \$3.58 a hundred weight. This allows the college to sell considerably below the purchase price by the hundred weight and come out even. This is emphasized by the fact that there is an average profit of \$5.12 on every animal, while the value by the hundred weight, at the close of the experiment, is about a quarter of a dollar less than the purchase price.

a quarter of a dollar less than the purchase price.

The calves were sold to D. D. Casement of Riley County, and will be grazed this summer in the same pasture and weighed in lots as fed at the close of the grazing season. This should give us some valuable information regarding the effects of silage wintering on the next summer's grazing—a question which seems to hold up a great many farmers, when considering the silo as a part of their equipment for beef production.

Bermuda Fills Kansas Grass Need. From an agricultural standpoint the greatest need of Kansas is grass. Bermuda is worth a trial. It cannot be muda is worth a trial. It cannot be killed by over-pasturing. A great protection from winter killing is by having a growth as a windbreak for winter. When there is snow on the ground it won't freeze. Stock will eat it all winter, and so we carelessly let them graze it too closely, after which it freezes. In a general way we say that an agre of

it too closely, after which it freezes. In a general way we say that an acre of Bermuda will graze two cows. It is as nutritious, ton for ton, as wheat bran. Upon the poorest sandy land it will grow and catch all the blowing soil until the Bermuda pasture will hold all of the else shifting soil of the section. There is only one thing against Bermuda for Kansas—it is liable to winter kill. In our next article we will tell how to guard against this. guard against this.

It is a heavy feeder; the roots run-ning every direction in quest of plant food and feeding upon that which it finds in widely varied soils. The roots penetrate the earth for seven feet and form a dense network near the surface. The root system below the surface and the stem system above are quite similar. the stem system above are quite similar. About every three inches upon the stem there are joints; from these joints new roots are formed penetrating the earth and sending side lines forth, which in turn reproduce themselves. Thus they spread until the land is fully occupied, when the stems shoot heavenward hand over hand.

over hand.

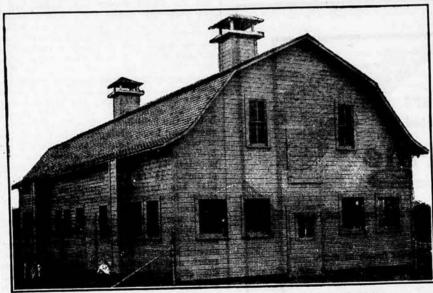
We have upon our farm in Central Oklahoma 100 acres of this grass, and it is the most profitable thing we can raise. We keep mules; they graze on the Bermuda, and winter on kafir. They never kick. A mule with Bermuda and kafir has no kick coming.

Bermuda is acknowledged the best pasture grass for Oklahoma. It is a southern grass, and how far north it will grow can be determined only by trial. The territory of its usefulness is being extended northward year by year,

being extended northward year by year, as it becomes acclimated. When Kan-sas farmers learn of its value they will set an acre to start with, and from the roots grown upon this acre plat, get roots grown upon this acre plat, get more acclimated roots for heavier settings. Should a dry summer be followed by a cold winter, a part of the Bermuda may winter kill. That which remains will be hardier. By this method Kansas will some day have large pasture lands of improved hardy Bermuda. The first caution should be to use only good roots. Bermuda is improved

only good roots. Bermuda is improved by careful selection as much as corn, kafir, or even live stock. There are sev-eral kinds of Bermuda. One should not set other than yearling roots, and from fields where great care is manifested in foundation stock. Bermuda can adapt itself to all kinds of soil.

There isn't an acre of Kansas land but would profitably grow Bermuda. There isn't any kind of live stock but would thrive upon it. Once established, if it would not winter kill, it would thrive abundantly with proper care for a hundred years. Every year the land would increase in fertility. It is a soil builder. Soil cannot blow or wash when set in Bermuda. — F. A. MITCHELL, Chandler, Okla.



THIS GOOD TYPE OF FARM BABN CAN BE BUILT FOR ABOUT \$600.

DAIRY barn like the one shown in the picture can be built at a cost of about \$600 if you haul the stone, sand, cement and lumber. This is the calf barn at the Kansas Agricultural College. It can as well be arranged to accommodate cows as calves and would make a model barn for 18 or 20 cows with several box stalls and a feed room. However, for

two rows of cows it should be built 3½ feet wider.

The barn as shown in the picture is 28½ by 65 feet. It has 28 windows, the height of ceiling is 8 feet, the height from foundation to plate is 12 feet. All rafters in the roof are 9 feet long. The extensions on

side walls are intakes to ventilation system. The interior shown is arranged for calves. It has stanchions for 27 calves, pens for 14 calves, and three box stalls. The floor, gutter and feed troughs are cement. The stanchions are steel. If arranged for dairy cows the stanchions could be made of wood at little expense.



## Stack Hay The SUNFLOWER Way

Save half the time and expense putting up alfalfa, clover, timothy, etc. The automatic SUNFLOWER Stacker pays for itself in three weeks. Driver always has easy and complete control in guiding, elevating and dumping. A 16-year-old can handle it. The only Stacker guided by a rudder and not by the horses.

The SUNFLOWER loads from the windrow and automatically elevates and dumps load anywhere on a 20-foot high stack. Lowers without backing from stack. Works from either side or end of stack. Will not break down in front, nor tip up behind. Simplest in construction, strongest and easiest to operate.

Write immediately and let us submit proof of every claim we make. We are ready to show a big saving. Just drop us a postal card and say "Show me" on the Stacker proposition.

SUNFLOWER Stackers are sold and guaran-

SUNFLOWER Stackers are sold and guaranteed by the factory direct to you. Write today.

Sunflower Manufacturing Co.

Manhattan, Kansas



## HE FARM



Sweet Clover Again.

E. G. F., Finney County, writes: "I have noticed the widespread interest being taken in sweet clover as is shown through the correspondence of subscribers appearing in Kansas Farmer. It is surprising to me that this interest has not been manifest many years ago. I have been growing sweet clover for seven years, and what I write is from my ex-perience and observation.

"Almost all my clover grows on fields in the Arkansas River bottom. The soil is a sandy loam and from 3 to 10 feet to water. I do not irrigate. Sweet clover, however, will thrive under irrigation and otherwise favorable condi-

"I have pastured cattle, horses and mules on this clover. It makes early abundant pasture and stock eat it with a relish. I have never handled any sheep

a relish. I have never handled any sheep or hogs on my clover fields, but have had correspondence with hog and sheep growers who have and who claim that they like sweet clover better than alfalfa for pasture.

"I have fed sweet clover hay for the past seven years and all fall, winter and spring have been feeding the clover straw from my last fall's threshing.

"The yield of seed per acre varies considerably, but from 120 acres last fall I threshed a little over 900 bushels. We count 60 pounds of seed to the bushel. The seed started selling at \$10 a bushel early in the fall, but has gotten up to \$15 a bushel now.

"There is no question about sweet.

early in the fall, but has gotten up to \$15 a bushel now.

"There is no question about sweet clover making a good pasture for all kinds of stock, both as spring and fall pasture. I am speaking now of the large white blooming variety. As illustrating the value of clover for hay, I can give you one instance.

"Last fall I sold all my straw and hay to Thomas Cowgill, ex-state treasurer of Missouri, who has a large ranch out here and who full feeds a great many cattle. Mr. Cowgill thought that while he was putting high-price grain into his cattle he would prefer to supply them with the very best of roughage in the form of alfalfa hay, kafir and corn forage. His superintendent at several different times told me that the cattle would leave the alfalfa, kafir and cane for the sweet clover hay and stay on it. I observed this fact for myself. There was something in the sweet clover hay that the stock liked. It is my understanding that the yellow blooming variety is bitter and stock at times will not eat it.

"At the present time there is no market for sweet clover hay, baled, but I

"At the present time there is no mar-"At the present time there is no market for sweet clover hay, baled, but I can remember when there was none for baled alfalfa hay. I sell all my sweet clover hay here, but I am thinking of baling some and shipping a carload to Kansas City. I will then take some Kansas City. I will then take some Saturday afternoon off when the live stock exchange is not busy and will endeavor to arrange to have a few bales of the best alfalfa hay, the best timothy hay and some sweet clover hay placed before the held-over cattle, horses, mules, sheep and hogs, giving the animals themselves an opportunity to express their preference and thereby allow the bystanders to judge as to which the stock prefers. It is my understanding, too, that the fattening qualities of sweet clover hay are greater than those of alfalfa.

"It would be my judgment that on the uplands of Western Kansas where irrigation cannot be had, sweet clover should be sown in rows about three feet art and cultivated like corn. Since the clover bunches heavily, fields so sown will soon look like solid fields and I believe will produce nearly as much tonnage of hay and yield of seed as when grown from drilling or broadcasting. Sweet clover seems to grow where almost any other crop will grow, and in many instances where other crops will not grow, and I heartily recommend it for the uplands of Kansas."

Chinch Bug Fungus Not Valuable. Subscriber C. S., Rice County, Kansas, writes: "During the past winter I saw in Kansas Farmer reference to chinch bug infection which was largely distributed, if I remember correctly, about 1894. I think KANSAS FARMER stated that the use of this fungus had

been discontinued. "I infected and distributed the dis-

eased bugs in a 40-acre corn field in the west part of McPherson County and albelieved that those diseased bugs caused the live bugs to rapidly disappear, and I think they have never been so destructive in this locality as they were at that time. A short time ago I talked with a neighbor farmer who also distributed the diseased bugs and who

was sure the results were beneficial.
"I do not know whether this method was ever tried outside of Kansas or not. was ever tried outside of Kansas or not. I understand that the government employs experts to study and experiment with methods to destroy insect pests, one system being to cultivate some insect or disease to attack and destroy the offending pest. If the question has not been discussed in print recently, would it not be a good plan to learn the opinion of men who distributed and watched results?

"I recently saw an article recommending the destruction of chinch bugs by burning litter along fences, meadows, etc., during dry windy weather. Many farmers are more in fear of a fire on a dry windy day than they are of a cyclone. Although burning litter is unquestionably a good thing, it is hard to get farmers to act in the matter. The best that can be done always leaves many old bugs over, unless, as is somotimes the case, a cold wet spring helps to destroy them."

Replying to subscriber above relative to the distribution of chinch bug fungus, the Department of Entomology of the Kansas State Experiment Station has during the past five years made a care-"I recently saw an article recommend-

during the past five years made a careful study of the fungus disease which attacks the chinch bug and in every part of the state where the bugs have been in sufficient numbers to do injury, the in sufficient numbers to do injury, the fungus disease was found to be present. In other words, the disease has been found commonly distributed over the entire bug-infested districts of the state, attacking not only the chinch bug but a large number of other species of insects. However, it should be stated that although the fungus disease seems to be present everywhere, the proper climatic conditions must be had in order for it to propagate, namely, plenty of moisto propagate, namely, plenty of mois-ture and summer temperatures. If these unfavorable conditions are had the fun-gus will break out, and if the bugs are abundant it will soon disseminate among them and sweep them off in great num-

bers.

In 1910 the University of Kansas made a careful investigation of the value of the artificial distribution of the chinch bug disease. It must be remembered that it was at the Kansas University where Professor Snow propagated the chinch bug fungus and from which institution it was first distributed. The following statements are quoted from the conclusions derived from the investigation.

"The chinch bug fungus is present naturally in fields everywhere throughout the infested area in Kansas.

"It is present in such great abundance that any artificial distribution of infection would be too insignificant, by comparison, to be of practical use.

"Its distribution naturally through a field is much more uniform than any artificial distribution can be made.

"The amount of fungus was despendent.

artificial distribution can be made.

"The amount of fungus used experi-mentally in both wheat and corn fields was so far in excess of any that would be used by the farmer in infecting his own fields that he could not reasonably

expect to succeed.

"Apparent absence of fungus among chinch bugs in a field is evidence of unfavorable conditions rather than lack of

the fungus spores.
"Spent adult chinch bugs succumb to attack more readily than younger ones, but as the old bugs have finished depositing their eggs, their loss by fungus disease accomplishes little else than increasing the amount of the infectious material.

"Advocating artificial infection or encouraging it by sending out diseased chinch bugs does not serve the best interests of the farmer since his attention

terests of the farmer, since his attention is thus diverted from other and more efficient methods of combating the pests.

Thus it appears from the above facts that the artificial distribution of this fungus disease amounts to nothing, and even with favorable conditions the artificial introduction will not hasten the action of the fungus.

#### Subscriber's Pit Silo Inquiry.

Subscriber's Pit Silo Inquiry.

Our subscriber, J. W. K., Pottawatomie County, writes: "I am considering building a silo. My near neighbors have no silos and will not build. It will be expensive for me to buy a cutter with a blower and an engine to fill my own silo only. I can buy a cutter without a blower at a low figure. I am considering digging a hole in the ground and cementing it for a silo. The only objection I see is that such a silo would not drain, but it certainly would be airtight."

In this issue our subscriber will find

In this issue our subscriber will find detailed information relative to the building of a pit silo, and in connection with the article will find comment by KANSAS FARMER editor on conditions which are necessary for the successful building and successful use of such silo.

The silo does not need a drain. Those The silo does not need a drain. Those silos built above ground are not drained. The silage, if cut at the right time, will not be a sloppy mess due to excessive juices. The time to cut crops for the best silage has time and again been stated in Kansas Farmer, but will be reviewed before it is again time to put reviewed before it is again time to put

The blower with 30 feet of pipe, or sufficient to fill a 30-foot silo, will cost about \$55. An elevator in place of a about \$55. An elevator in place of a blower, to fill a silo of the same height, will cost about \$42, so there is not much difference between the cost of blower and elevator. It will require more power, however, to operate the blower than it will to operate the elevator.

If our subscriber has no use for an engine other than that of running a cutter for the filling of his own silo, he could better afford to hire a threshing engine for a few days at what might seem an excessive price.

seem an excessive price.

It is certain that other silos will come into his locality within a year or two, and if he should buy a cutter and blower for his own use this year there is little doubt but that he would be able to later either sell several interests in the cutter or could rent it on a tonnage basis and by such method recover a portion and by such method recover a portion of his original investment. It appears to us that we would not be influenced to build a pit silo wholly on account of a desire to save the expense of a blower the rotal expense on engine to run. or the rental expense on engine to run a cutter with a blower.

We are somewhat familiar with the uplands near the town of our subscriber and we believe that he will encounter solid rock in the digging of a pit silo. In the bottom lands near such town he will encounter sand and water, which will also render a pit silo impractical.

#### Oil for Chinch Bug Barriers.

In connection with the fight being waged for the protection of crops against chinch bugs, a certain kind of road oil has been found which is believed to be more effective than the tar now used in trenches. This discovery has been made trenches. This discovery has been made by the entomology department of the Kansas Agricultural College. Since the oil is not manufactured for the general market and can be bought only by the carload, farmers' associations, Granges, unions, institutes, and commercial clubs should undertake to supply their dis-tricts with this oil by ordering in large quantities. quantities.

The cost of the oil is about 67 cents The cost of the oil is about of cents a gallon f.o.b. Kansas City. In order that these different organizations may purchase any amount they desire, J. H. Miller, dean of the extension division, will undertake to order the oil in carloads sent to centrally located towns from which distribution to local organizations may be made. Farmers should izations may be made. Farmers should decide at once the number of barrels they need and send their orders to Mr.

In Kansas Farmer issue of May 24 complete information was given as to chinch bug destruction and the construction of barriers, etc. Look up the arti-cle, read it again, note how the barriers are constructed and prepared for Figure on the number of rods of barrier that will be needed to protect the growing corn, kafir, cane or other crop from the bugs. You can then figure that it will require one gallon of oil to each five rods of barrier. In other words, two miles of barrier can be oiled with about 115 gallons of oil, and assuming that the oil will cost, laid down at your depot, 7 cents a gallon, the expense for oil would be \$8.05. The arrangement made by the extension division for the purchase of oil for farmers should prove convenient and should be taken advantage of by farmers in general.

The oil can be poured from a sprinkling can the nozzle of which has been removed. It should be poured in a stream of sufficient size to make a line of oil one-half to three-quarters of an

inch in width.

## No-Rim-Cut Tires 10% Oversize

## 11% Less This Year

Rubber has dropped a little. And our factory cost, because of multiplied output, has dropped a little more. Our new factories are completed, and we've equipped them with the latest labor-saving machinery.

Now we have a capacity pretty close to 8,000 motor tires daily.

As a result, No-Rim-Cut tires are costing about 11 per cent less than last year.

#### What You Save

You save, by using these new-type tires, all the ruin of rim-cutting. And that is what wrecks 23 per cent of the old-type clincher tires.

You get extra capacity. No-Rim-Cut tires are 10 per cent larger than the same rated size in clinchers. And that oversize, under average conditions, adds 25 per cent to the tire mileage.

And now you save on price—11 per cent under what these tires cost last year.

#### No Extra Price

No standard tire of any type costs less than No-Rim-Cut tires today.

Hooked-base tires-tires which

rim-cut-now cost the same as these newtype tires which don't.

Tires just rated size now cost as much as these oversize tires.

Consider how it pays to insist on these savings when they costyou nothing extra.

#### Their Records

No-Rim-Cut tires, when they cost more than clinchers, came to outsell all others.

The demand for these tires has doubled over and over. It has become the sensation of Tiredom.

More Goodyear tires were sold last year than in the previous 12 years put together. And car makers alone have contracted this year for 890,680 of them.

Now No-Rim-Cut tires cost no more than old-types, and our demand from users so far this year has jumped 85 per cent.

#### Just Be Fair

All we urge is fairness to your-

self. Test the tires which, on countless cars, have shown the lowest cost per mile.

One glance will show that these tires can't rim-cut, that they are over rated size. Find out how this lowers tire bills.

Hundreds of thousands of men who have done that now use Good-

Also be fair to us. For 14 years our experts have worked to lessen tire upkeep. And we are still spending \$100,000 yearly on research and experiment.

Now comes this 11 per cent reduction. Doesn't this record, in

your estimation, call for a test of these

Write for the Goodyear Tire Book-14thyear edition. It tells all known ways to economize on tires.

## (JOOD) YEAR No-Rim-Cut Tires With or Without Non-Skid Treads

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO

More Service Stations Than Any Other Tire Branches and Agencies in 103 Principal Cities

We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

(1136)

#### Farm Experience Counts.

"A year ago last summer I put up a silo, and we will all remember what the summer of 1911 was. I have lived in Oklahoma twenty years and I have never seen as complete a failure as that was; but I had ordered my silo and I put it up.

"I had out 65 acres of Indian corn and figured on a big corn crop, but the hot winds came in July and burned it in a few days until I don't suppose I could have gathered 200 bushels off of the 65 acres, and it was hardly fit for hog feed. But I had my silo up and I got a corn binder and a corn sled and cut 20 acres of that poor corn and put it in the silo, and I had feed that was as good as alfalfa hay and it cost less than \$1.00 per ton to put it up. I bought 20 head of cattle in the fall of 1911, at a price about one-half of what the same kind of cattle would sell the stock for today. I feed silage to all the stock on my farm, hogs and chickens like it as well as horses and cattle. I believe that every farmer that is going to handle stock should have a silo and a bunch of good milk cows. We milk eight head and our income is about \$1.00 per day; besides our own use and the benefit the pigs get from the milk. "I believe in diversified farming and

not so much wheat, as then you can have employment the year around in-stead of working hard for about four

months in the summer and be idle the

rest of the time.

"I think the farmer should study out for himself what crop will best fit his soil. Sandy soil will still produce good corn but we should not try to fool with corn on hard upland. Kafir and milo is a sure crop on both sandy and hard land."

A good many Kansas bankers have been using circulars, booklets, etc., for distribution among its patrons, the ob-ject of which is to lead to better farm practice. Much of this material is good but much of it fails to hit the spot. The above letter was distributed by the da. That's First Bank of Hitchcock, Okla. That's a good piece of advertising. It reports an actual experience in farming—it gives the plain fact in farmers' language, is sincere and points the way by experience from a man known in the community Hitchcock is in Blaine County and is directly south of Harper County in Kansas and with about the same rainfall. In a general way what is good for Blaine County, Oklahoma farmers is good for Harper County, Kansas farmers. Note what is said about silage, kafir, live stock and diversified farming.

Damming Draws and Irrigation.

Subscriber C. H. P., Wallace County, Kansas, writes: "There are two topics of interest to the central and western part of the state. First is the conserva-

tion of the moisture, second irrigation

from the flood waters.

"If we can get the flood waters controlled by building dams and reservoirs from the east line of the Sixth and Seventh districts and holding the flood waters are the stricts and holding the flood waters. ers and feed the table waters below, also put in irrigation plants, then we can connect the rain belt between the mountains and the rain belt east.

"We have 15 inches of rainfall a year here and it practically all runs off, as the elevation is so great—about 11 feet per mile from the Colorado line to Salina, Kansas. When we can build dams and reservoirs and hold the flood waters, it will course overcounting and create more it will cause evaporation and create more rainfall. Also, if the water soaks into the sand, it has a tendency to feed the table waters and keep them from running off and ooding out the valleys in the East. My idea as a resident of the dry section is that if we hold the waters of the highlands it will answer two purposes-conserve moisture and save the crops on the valleys between us. I would like to hear from others in regard to

Record Price For Ranch.

John Feldhut of Iuka has closed a deal for the purchase of a big ranch in Finney County, costing \$104,000. The place includes a \$5,000 irrigation plant. Mr. Feldhut came to that section a few years ago, a poor man, and got a start in Reno and Pratt Counties.

### Here's Something New!

## John Deere **Motor Press**

The Press with the Patent Eccentric Drive

Designed especially for gasoline engine power, Speed of engine and capacity of press easily maintained because compression stroke is slow and powerful, while return stroke is quick. Gives a steady use of power, and per-mits the use of a small engine. Has no fly wheel or back gears—they are unnecessary on

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Careful information and prices given on request.

THE ENGLISH TOOL & SUPPLY CO., 410 W. 5th St., Kansas City, Mo.

# LIVE STOCK



Reports from all sections are that the eason so far has been extremely favorable for grass and pastures are abundant and all kinds of stock on pasture are doing unusually well.

Chas. Stephens, Cherokee County, a breeder of Holsteins, reports a heavy demand for dairy cattle. He says good milk cows bring twice as much money as they did three years ago.

T. M. Ewing, Montgomery County, says that he thinks in his county there is only about 60 per cent of a normal number of hogs. The spring pigs were saved in good condition generally speak-ing, and there is no cholera in his vicinity. The demand is heavy for dairy cattle but good cows are scarce and sell at high prices. He says in fact that all kinds of cattle are scarce and prices for all kinds high.

We are confident that more pure-bred sires of all classes of live stock are now being used in Kansas than ever before being used in Kansas than ever before in the history of the state. This condition should be expected and the statement is made only in support of our contention that every farmer should improve the class of his live stock by the use of the best possible sires. James W. Williams, Lincoln County writes that "as a rule the farmers of my county are breeding to pure-bred sires" and that there is a strong demand for all kinds of good live stock in that county.

In Barton County our subscriber, L. C. Hipp, writes that there is an increasing demand for jacks. The demand for mules is strong at good prices. He attributes this to the fact that about one out of every six horses in his county was lost as a result of the plague and these horses are being replaced by mules. There is a slow but nevertheless increasing demand for cattle and Shorthorns are the most sought for. Contrary to the seports from most Kansas communities, Mr. Hipp writes that the silo in his county is not growing in popularity.

From Charles Sutton, Douglas County comes this word: "If the stockman cannot make money under present conditions he should change his occupation." This coming from a large breeder of Angus cattle and Berkshire swine indicates an enthysican and catter and services and catter and services. cates an enthusiasm and satisfaction which is indeed gratifying. It is our own opinion that live stock to the number of two or three times more than are kept on most farms are more certain to return the farmer a profit than any other plan of farming. Mr. Sutton reports an increasing demand for purebred beef cattle and for all kinds of good dairy cattle. He says too that his good that he says too county has about 65 per cent of a normal number of hogs. There is some cholera in the county.

"The dairy business is not in as flourishing condition in this county as it was four or five years ago. Most of the farms here are large and I think farmers have found that on account of the extra amount of work with the limited and usually unsatisfactory help that can be had, makes dairying almost impossible. At any rate there are but few farmers who now milk more are but few farmers who now milk more cows than enough to supply their family needs." This is from D. J. White, Chase County, who reports an increasing de-mand for all kinds of pure bred beef cate. but practically no With stockmen he says the silo ing in popularity. The swine cattle. With stockmen he says the silo is growing in popularity. The swine population of Chase County he reports is about 20 per cent above normal and springs pigs generally were saved. He also says that there is no cholera in the county. county.

There is little question but that the western third of Kansas will soon become a heavy buyer of all kinds of stock. Various letters recently received lead us to this belief. The necessity of live stock farming is generally well recog-nized in that section. F. H. Borthwick of Sheridan County says that there is an increasing demand for all kinds of cattle, particularly for cows that will produce a fair quantity of milk. He says that in his section the Jerseys are the popular dairy breed. He reports for his county about 10 per cent of a normal number of hogs, and a proportionate scarcity of all kinds of live stock. The growing popularity of the silo with a full recognition of its value to the western farmer is responsible more than anything else for the changed feeling western farmer is responsible more than anything else for the changed feeling with reference to the need of live stock. The silo, with the growing of some of the sorghum crops for filling, presents to the western farmer a greater hope for successful stock raising and farming than has ever before been entertained.

In Wilson County Henry Hunter reports a shortage of about 60 per cent in hogs and a great shortage in cattle. He says that at nearly every public sale a larger number of horses are offered than of cattle and that the demand is good for cattle of all kinds.

From Geary County Thomas McKin-ley writes that there is an increasing demand for pure-bred cattle of both beef and dairy breeding. He says "my experience and observation on the improvement of live stock has led me to believe that the past experience with pure bred stock has not been as re-munerative and as encouraging as it should have been and for the reason that the breeding of pure bred stock is han-dicapped by serious obstacles. First, it has been difficult to induce farmers to pay remunerative prices for pure-bred sires; second, incompetency of breeders to select, breed and develop their ani-mals so as to demonstrate the superior-ity and financial advantages of purebred stock from scrub animals; third, the penalty imposed by an excessive tax on pure-bred sires which does not look reasonable to the beginner; fourth, excessive freight and express charges on individuals or carlots. I am fully persuaded that the elimination of some of the above obtacles on the part of those engaged in the breeding business would result in an impetus to the advancement of the cause of better live stock, and an impetus not heretofore experienced. The successful improver of live stock is a public benefactor and is entitled to appreciation and financial suc-

Veterinary Inquiry.

A Severy, Kansas, subscriber writes for information regarding a correspondence course in veterinary science. He fails to sign his name so we cannot give him the information he desires. Our him the information he desires. Our remarks would not be of general interest to Kansas Farmer subscribers and so we cannot devote the space thereto. Here is another instance in which we would be glad to serve our inquirer but because he failed to sign his name we cannot. The St. Joseph Veterinary Col-lege, St. Joseph, Mo., is an advertiser in this paper, Write it for particulars.

Stamping Out Hog Cholera.
George Glover, of the Utah Experimental Station, writes that in one community with which he is familiar and in which hog cholera was rampant the disease was stamped out by the following method:

A competent veterinarian was made a deputy sheriff with instruction to clean-up cholera. He did it by first ordering the carcasses of cholera hogs destroyed by fire, healthy hogs were isolated from sick ones, serum was used with discretion, pens were ordered cleaned once a week, and the litter destroyed by fire; lime was scattered in the yards and the pens whitewashed, the hogs were placed in quarantine and notices to that effect were posted conspicuously, the moving of hogs on the public roads was prohibited and all imported hogs were held fifteen days before exposing them

This procedure in a general way, if enforced vigorously, will control hog cholera and there is no other way. The sanitary authorities must enforce the same general rules in quarantine and dis-infection that they do with small pox and scarlet fever in the human and there is no reason why the disease cannot be equally as well controlled.

This fall, as soon as the leaves are cut by frost, is the best time to make new plantations of rhubarb and horseradish. The ground for both of these plants must be deep, mellow and rich.



for this genuine Victrola that will play for you any record in the Victor catalog.

Go to any store where you see the famous Victor trademark and hear your favorite music on

this Victrola.
Other styles \$25 to \$200.
Write for catalogs.

Victor Talking Machine Co.
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Hopper & Son, Manhattan, Kansas Builders of

torn Land Roller Co., Bx. 205 Hastings, Nebrask

Concrete Silos

Write for list of silos we have built. Ask our customers about them.



### THE STANDARD FARM PAPERS

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Farmer,
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Journal. . . . . . 20,000 .18 San Francisco, Cal. 840,442 \$4.131/2 \$3.99 These publications are conceded to be the authoritative farm papers of their individual fields.



### Do You Want Men? Do You Want Work?

FARMERS wanting help and those wanting work will watch KANSAS
FARMER for further announcements.

KANSAS FARMER'S advertising for the names and addresses of men
who desire work in the harvest fields is resulting in the receipt of hundreds
of inquiries from men who desire locations. Farmers who are seeking help
are also making known their wants in great numbers, and be it understood
that Kansas farmers are wanting help other than for harvest.

The first of the week we began notifying men of locations where they
can get work. It was necessary that notification be delayed until this
time, giving opportunity for the receipt of names and addresses of the
largest number of men possible so that we might avoid sending a man
from Belleville to Manhattan when that same man might be wanted either
at home or at some other point nearer.

at home or at some other point nearer.

We are giving Kansas men preference over those outside of Kansas.

We believe that there are enough men in Kansas, together with those who will move from Oklahoma north as the harvest progresses, to take care

of the Kansas crop

of the Kansas crop.

We really believe that there are enough men and teams in those counties in far western Kansas, where the acreage is small, to come near supplying the help needed in the harvest fields farther east. We are especially endeavoring to locate these inquirers.

It is always dangerous to guess on a Kansas wheat crop—or for that matter of any state—until the crop is made. There is no question but that in the western half of the state conditions are decidedly spotted. Local rains the latter part of last week have made the crop in sections where a few days before it was believed the crop was gone. In those sections where it failed to rain the yield will be small and some fields not cut. Good local rains in other sections of the western half of the state have favorably changed a situation doubtful a week ago. The acre yield will be comparatively short in several of the big and dependable wheat counties of the central Southwest. This condition will be more than offset by the fine crop generally throughout the eastern half of Kansas, but which latter section, however, does not have an acreage equal to the western half.

It is our guess—a guess only—that Kansas will harvest 90 million bushels.

The Kansas Farmer coupons are again printed below. You are invited to avail yourself of this service.

Farmers who want harvest hands will please cut out this blank and mail it at once to Kansas Farmer, T. A. Borman, Editor, Topeka, Kansas. When will your harvest begin?\_\_\_\_\_ How many men do you want?\_\_\_\_\_ Do you want shockers, pitchers, stackers, extra teams?\_\_\_\_\_ What have been the prevailing harvest wages per day?\_\_\_\_\_ Will you need any men after harvest and at what kind of work?\_\_\_\_\_ 

If you want to work in the harvest fields, fill this out and mail to Kansas Farmer, T. A. Borman, Editor, Topeka, Kansas. Name\_\_\_\_\_Address\_\_\_\_\_ Occupation\_\_\_\_\_. Have you ever worked in the harvest fields or at outside day labor?\_\_\_\_\_ Can you go to any county?\_\_\_\_\_ Do you want work after harvest, and what kind?\_\_\_\_\_ If you have a team or harvesting outfit and want to give additional information, write on separate sheet. We will endeavor to put every man who applies into direct communication with the farmer nearest him we know what wants harvest hands.

ANSAS FARMER will act as a clearing house for farmers who want harvest hands and for harvest hands who want work. No charge whatsoever will be made to anyone, under any circumstances, for the service, unless you want information by telegraph or telephone, in which case you will pay the charges.

Fill out one of these blanks and mail at once to

KANSAS FARMER, T. A. Borman, Editor, Topeka, Kansas.

## Soil Blowing Prevention

Continued from Page Four

D. Olcott. They listed land in strips. These strips were run east and west about four dors apart, each listed strip being two to four rods wide. Almost a thousand acres were thus prepared the

The wind was whistling from the north at the time, raising the dust so that at moments one could see only a few rods ahead. After a considerable area was listed, however, this proved an effective stop to the moving soil and the line of demarcation between listed and unlisted areas was so distinct as to be seen at a distance of many miles. house in the blown area several miles from Colby which has not been seen from Colby on a windy day for more than a year, on account of the dust, stood out clear and distinct as a clean-cut demonstration of what this work

was accomplishing.

A sad accident happened the first day of this work. Mr. A. O. Hemstrom, largely instrumental in directing the field work and one of the respected cit-izens living near Colby, had his back broken while riding in a car. He had been crippled by rheumatism a long time and sat in the car bending forward

slightly and leaning on a cane. In crossing a rut the car suddenly gave a jerk. His chin hit the cane, his head was thrown backward, and the jar broke his back. He was rushed to the hospital, but since has died. This saddened the spirit of the workers and some were not present the second day. The majority came back, however, and automobiles secured the country for others.

All are working to drive back the threatening desert and the listed area is increasing. The courage and clear grit of those undertaking so difficult a task as the reclamation of these blown lands is worthy of the highest commendation. May no one stand back, but every one in the district lend a helping hand, with the district lend a helping hand, with time, labor or money, or all of them. Land owners, resident and non-resident, are lending a hand when they see that organized effort brings results; many business men are helping and others should help. If all would "pitch in" it would probably be a matter of only a few weeks until the area would he under few weeks until the area would be under control. When once under control it can be kept so by sane farming, and it will once more be valuable for farming purposes and for homes worth while.



AST year 646,448 people a bought this famous shoe, because it is better than any other medium-priced shoe in

It is the "Our Family" shoe, and it is made in several styles—all sizes for men, boys, women and children.

It is honestly made of good leather, with sole leather heels, counters and soles. No substitutes for leather are ever used.

The "Our Family" is a "Star Brand" shoe. This means that it is better than other shoes of the same kind at the same price.

The "Star Brand" merchant has an "Our Family" Shoe cut up so you can see how it is made. Ask to see it.

ROBERTS, JOHNSON & RAND

## VACCINATE YOUR OWN HOGS

The use of serum as a cholera preventative is generally acknowledged and daily proven. Any man can administer the serum. Write today for full information, giving the number of head you own and average weights.

Do not wait till your herd is infected or till cholera is in your immediate neighborhood. With an expenditure of 20 or 30 cents you can immunize your pig against hog cholera for the rest of its life.

The Star Serum Co., 709 Live Stock Exchange Building, Kansas City, Mo.

Phones: Bell, Main 3109; Home, 5330 Main.

## Why Forswear

Your Allegiance to "Uncle Sam" and take up your abode where the growing season is short and the climate is rigorous, when the very best land that the sun shines on is in the United States, and where, in many places, you can work outdoors almost all the year round?

If you think of moving from your present location, ask me where to obtain good land at reasonable prices. Say what state you prefer and I will send information to you free.

R. A. SMITH,

Colonization and Industrial Agent, Union Pacific Railroad Co., Room 242 Union Pacific Building, OMAHA, NEBRASKA.



St. Joseph Veterinary College

Thoroughly modern three years' course in veterinary medicine leading to the degree of D. V. M. College recognized by the U. S. Department of Agriculture. Modern and completely equipped laboratories. Unexcelled clinical facilities. For prospectus address

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TAKEN UP—STRAY SORREL MARE, weight about 500 pounds, 9 years old, strip in face, three white feet, branded MS on right hip, IA (inverted) on left shoulder thing W on left shoulder, ISI and RII on left hip. H. T. Bandy, Kanorado, Kansas.

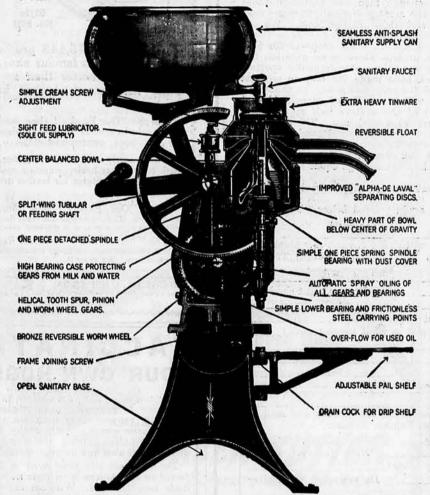
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READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

# DAIRY

The grade cow, if she be a good grade, is a profitable dairy cow. However, the grade sire has no place in the dairy herd.

The first two or three months of the hand-reared calf's life are always the critical period. It should have good feed and good care during that time. Then it will be able to take care of itself in good shape.

Calf rearing is a necessity on every dairy farm. This, for the reason that it is more economical to rear good cows than it is to buy them. It is also the more certain means of keeping up the dairy herd.

In passing through the country it is not difficult to know those farmers who are milking cows or have milked cows. As a rule, the farm dairyman is the most prosperous man in the community. If he is prosperous and is not dairying, it is a fairly safe bet that he was one time a dairyman and that he will give the old cows credit for having put him on his feet.

If you are dissatisfied with the profits from the dairy herd it will be well to inquire carefully into the length of the producing period of each cow milked. It is probable you will find that a few short milking cows are eating up the profit of those cows which are persistent milkers, able to return a profit for their feed and care. Culling the herd and disposing of the short time milkers is the surest way of building up the herd and increasing the profit.

Every cow on the place deserves a fair trial with the right kind of feed in the right quantity and her milk weighed and tested before she is regarded as unprofitable. Hundreds of cows which under right feed and right management would yield a good profit are, under present methods, unprofitable. It is not fair to the cow and not fair to yourself to undertake to cull the herd on outward appearances or without the cow being given an opportunity to show what she is capable of doing.

A big cream check is not the result of accident, but it is the result of good feeding and good handling, and most likely of good cows. A big cream check does not come from cows which give a gallon or two of milk a day, each, regardless of how rich in butter fat that milk may appear to the eye. A big cream check comes from a bunch of cows that give from three to five gallons of milk a day, each, for four or five months of the year, and milk proportionately well for at least nine or ten months of the twelve.

This is the time of year when the cream cans and the milk pail and all the separator parts should be scrupulously clean. If the cream is to keep well for family use or for delivery to the cream receiving station, clean milk utensils, clean methods of milking and the animal heat removed from the cream as soon as possible after separating, will result in keeping the cream in the best condition possible. The best storage for the cream is the milk house constructed over the pump or tank covered and set out in the open. The milk house or covered tank should be well ventilated.

Kansas Farmer has in the past month or six weeks answered a number of inquiries as to the cause of cows giving bloody milk. We just now have another inquiry from "An Old Subscriber" asking for the same information. Had this subscriber given his name and address we would have answered by mail and not again taken space in these columns to answer this question. Subscribers will do us a favor always to sign their names to inquiries. If an answer has recently been printed in Kansas Farmer we can then write direct. This is a subscriber from Russell County. The rupture of a small blood vessel or blood vessels is usually responsible for cows giving bloody milk. Sometimes this condition is due to an abscess either in the udder or teats. Usually the trouble in either case is of short standing and with careful handling of the udder in milking nature will effect a cure. Usu-

ally, too, the trouble is confined to only one quarter. Sometimes the trouble is so aggravated or serious that the quarter should be dried up or not milked more than necessary to prevent spoiling and under which conditions the quarter will go dry. No surgical operation or the use of any medicine or application is necessary or beneficial in ordinary cases.

In our issue of May 17 a photograph of one of the leading Brown Swiss bulls was labeled as a first prize Jersey bull. The picture was so described by mlstake. We are glad, however, to do the Brown Swiss breed the credit of a correction. Those who are familiar with the hundred and one ins and outs in the preparation of copy for a great farm weekly like Kansas Farmer can appreciate how a mistake of this kind might occur. The Brown Swiss is recognized as one of the important dairy breeds. The breed, however, is new in Kansas, but is adapted to Kansas conditions fully as well as some other breeds. One reason that so little is known of the breed in the West is because of the few animals being here owned and because of the scarcity and consequent difficulty in obtaining the breeding stock.

Every man who engages in a manufacturing enterprise works early and late to increase the productive power of his factory and he is not content until that factory is producing a maximum of the products for which it is designed. This is a tip to 'the farmer. How many farmers can you name in your neighborhood who have endeavored to increase the producing power of their farm? How many have endeavored to make the farm worth more money than it was worth when they bought it, except by the addition of buildings, fences, and other improvements? Do you consider that the farmer is justified to the same extent as the manufacturer in his effort to make his farm produce a maximum of grain, pork, beef, etc., and at the same time maintain the land on the up-grade in fertility and producing ability?

The National Dairy Show will this year be held in Chicago, October 23 to November 1. As the success of an industry must include the success of all of its branches, there is to be held a conference during this year's show looking to advancing each and every branch of dairying, beginning with the cow, of course. This conference will embrace delegates from each cattle association, the creamery interests, the cheese makers, the milk producers, the milk distributers, the ice cream manufacturers, the silo makers, the dairy farm machinery men and the dairy machinery manufacturers, ice cream machinery and subsidiary interests, the agricultural colleges, the railroads, the trade press. With such a combination of energy great results for the industry must accrue. A splendid effort ably assisted by the Grange and the railroads to bring out a big attendance to this year's show is being made.

Some time since in this column we printed a statement congratulating the American Guernsey Cattle Club upon having established a list for meritorious grade Guernseys. We made some inquiry of Secretary Caldwell of the club and we are advised by him that the list is to include such grade animals as are sired by registered Guernsey bulls which bulls will make the Advanced Registry qualifications under the supervision of agricultural experiment stations. It is the object of this plan to add to the credit of the Guernsey as a winner of the battle with the scrub cow. Results of grade Guernsey tests will be announced in Kansas Farmer from time to time. We can see wherein the American Guernsey Cattle Club would be interested in the meritorious records of the grade Guernseys sired by Advanced Registry Guernsey bulls, but to the rank and file of Kansas farm dairymen the superiority of the grade Guernsey as compared with the common cow could be much more forcibly impressed upon them by having the list include meritorious grades even though not sired by Advanced Registry bulls.



the Money-Making Separator. Differs from high-priced separators in price. Differs from low-priced separators in quality. Really in a class by itself. The Beatrice is the separator that is washed perfectly by mechanical means in two minutes. It has the good points of all, the drawbacks of none, and exclusive features of its own. Get our Separator books if you would get posted. The Beatrice backs up every claim we make. We back up the Beatrice.

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Yes sir, I'll save you \$35 to \$50 the first cost alone on the best, most modern, ost santary and closest akimming cream parator ever built. When you buy the

New Galloway Sanitary —you pay just one small profit above actual cost of materials and labor. Why pay any dealer \$85 to \$110 for an inferior machine. Buy direct and save one-balf. Get my

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persistent milker. Jerseys are easily acclimated. They live long and keep healthy.
They mean steady butter profits. Write
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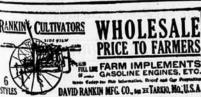
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## The GRANGE DIRECTORY OF THE HANSAS STATE

NATIONAL GRANGE OFFICERS. 

Some Grangers have asked whether or not Secretary of Agriculture Houston is a member of the Grange. He is not.

Items in the Grange column of KAN-SAS FARMER issue of May 24 and cred-ited to L. Mabel Waters, secretary Ber-ryton Grange No. 1430, should have been credited to her as Lady Assistant Stew-ord.

In every community there are many people who do not know the objects and people who do not know the objects and purposes of the Grange. These are the folks you should get out to your open meeting where they can hear some of the Grange doctrine.

The National Stockman and Farmer, published at Pittsburgh, Pa., prints a Grange column very similar to that printed in Kansas Farmer. In its issue of May 24 it refers to the public market established at Manhattan by the Riley County Grange, and recommends that the Grangers of Pennsylvania follow the

Some time since it was claimed that when 78 members were taken into Silas Wright Grange, New York, this was the largest class ever added to a subordinate Grange. This caused the secretary of Pembroke Grange, New Hampshire, to remind Grangers that on March 4, 1886, 134 members were taken into that Grange and of which class 67 were men and 67 women.

The establishment of parcel post was due wholly to the efforts put forth by the Granges throughout the United States. The parcel post was a demand made so strong by the Granges that Congress could not turn a deaf ear. This is an example of what the Grange can accomplish when it really sets about to as an example of what the Grange can accomplish when it really sets about to do things. This is a day when results count. The Grange is one farmers' organization that has brought results.

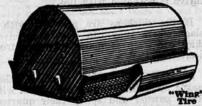
In the Grange column of an exchange we find these subjects suggested for discussion during the fall and winter. It seems to us that here are some good topics: Shall we farmers patronize the mail order houses when cheaper? The most practical way of assisting the young person to success. What legislation do the farmers of this neighborhood most need? What is most needed to strengthen the farmers not prosperous? strengthen the farmers not prosperous? what middlemen can we dispense with? What middlemen can we dispense with? How shall we arrange the "wife's share" so it will be satisfactory to all concerned? On what articles could we profit by buying and selling together? Some of the wastes on the farm and how the story them. to stop them.

#### Not Favorable to State Commission.

The Manhattan Grange met at the home of Mrs. J. L. Fuller last Wednesday. A bountiful dinner was spread beneath the trees and enjoyed by all. The Grange was called to order at 1:30 and after preliminary business the W. I. took charge of the program. Two beautiful solos were sung by Mrs. Fuller, "Colorado" and "The American Rose." Both were greatly appreciated. Both were greatly appreciated. The patrons then took part in a general discussion led by State Lecturer L. S. Fry on the subject of Commission Form of State Government. The prevailing opinion seemed to be not to center too much power in the hands of a few, but to have as many people represented as possible. During the summer months it is customary with this Grange to hold the most of their meetings with members of the Grange at their homes.—Mrs. V. V.

An easy way to clean lamp chimneys is to hold the chimney over the steam of a tea-kettle for a minute, and then wipe clean with a soft cloth. A chim-ney washed in this way is less apt to break than when water is used.

## How GOOD YEAR Carriage Tires -Have Swept Into Popularity-



The Goodyear "Wing" Tire

Note this patented "Wing." How it presses
against the channel, thus preventing mud, grit
or water from getting in and quickly rusting
the rim and destroying the tire base. This tire
remains sound, won't creep or get loose. Gives
sumost wear and will protect your carriage
and greatly lengthen its life. Being of longh,
springs rubber, it is exceptionally easy-riding.

Our "Eccentric" Cushion Tire

No more carriages were sold in 1911-12 than in the previous season. Yet the sales of Goodyear "Wing" Carriage Tires increased 33 per cent in that same period. That means our sales of the preceding two years were practically doubled. And for 1912-13 we have estimated a still further increase.

Of the 200 carriage makers in the U. S., 148 now equip their carriages with Goodyear "Wing" Tires have become the most popular carriage tires in existence.

All because thousands of sarriage owners have used and tested them for 14 years and learned their superiority.

The Goodyear "Wing" Tire brings the same big saving to carriage owners that the Goodyear No-Rim-Cut Tire brings owners of automobiles. Stop and consider these facts before you buy rubber tires for your carriage.

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They Pay!

Dependable Pianos — made by factories of recognized reliability

sold strictly on their merits, and

exactly for what they are—and not only warranted by the makers but by Jenkins—that's the way pianos are sold here. Strictly

## DEPENDABLE PIANOS



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pianos on comfortable payments. Write for catalog and prices—\$125 and up. High class guaranteed Player Pianos, \$435 and up. Call or write.

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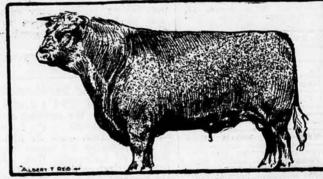


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## White Plymouth Rocks

Again prove their superiority as egg layers in the National Egg-Laying Contest, one White Rock hen laying 281 eggs; 645 hens competing. I have bred White Rocks exclusively for 20 years and have them as good as anybody. Eggs from three high-scoring pens, \$2.00 per 15; \$5.00 per 45, delivered free by parcel post or express. Safe delivery guaranteed. A limited number of eggs from a specially fine mated pen, \$5.00 per 15. You will get what you order, or money refunded.

THOMAS OWEN.

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#### PURE BRED POULTRY

The "Big Three" Poultry Farms
MYERS & STOVEE, FREDONIA, KAN.
EGGS AT REDUCED PRICES FOR MAY
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B. C. B. I. REDS, half price remainder of
season. Our strain has won for years at
Kansas State Poultry Shows. Golden opportunity to get the best and get it cheap.
Write for special May-June prices.
INDIAN RUNNER DUCKS.— American
Standard, Light Fawn and White. Eggs,
1.25 per 15; \$7.00 per 100. Pure White
Runners, original Spencer strain, none better, \$2.50 per 12. Both varieties are highclass prize winning birds, heavy all-year
layers, white eggers.
BOURBON RED TURKEYS—Eggs, \$3.00
per eleven.

#### ORPINGTONS.

WHITE ORPINGTON EGGS, \$2.00 PER 15—\$10.00 per 100. Special price on larger amounts. Ed. LeClere, Central City, Iowa.

GUARANTEED PURE-BRED S. C. White and Buff Orpington eggs, \$1.50 per 15. J. A. Blunn, Sta. A. Wichita, Kan.

BIDE-A-WEE BUFFS — EGGS FROM winners. Mating list free. Roy J. Lucas, Agra, Kan.

BUFF ORPINGTONS—SPECIAL SALE. Big reduction in price of breeding stock of my prize winners at Kansas City, St. Joseph, Topeka and Des Moines. Eggs and baby chicks. H. F. Farrar, Axtell, Kan.

#### PLYMOUTH ROCKS.

BUFF PLYMOUTH ROCKS—EGGS AND baby chicks at reasonable prices. Mrs. Fred Miller, Wakefield, Kan.

BARRED ROCK EGGS, \$5.00 PER HUNdred. Write for catalogue. Harry E. Duncan, Humboldt, Kansas.

BARRED PLYMOUTH BOCKS EX-clusively—Ringlet strain; good layers, rich color, fine, narrow, regular barring to the skin and good size. \$2 per 15 eggs. L. P. Coblentz, La Harpe, Kansas.

#### SEVERAL BREEDS.

PURE-BRED EGGS, SIXTY VARIETIES. Quick delivery. Catalog free. Jordan Poul-try Farm, Coffeyville. Kan.

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INDIAN RUNNER DUCK EGGS, \$1.25 per setting. Gertrude Haynes, Meriden, Kan.

INDIAN BUNNERS. FAWN AND WHITE, Eggs, \$1 per 15. Baby ducks, 25e each. J. W. Fretz, Bosworth, Mo.

#### RHODE ISLAND REDS.

SINGLE COMB REDS—100 EGGS, \$3.50; 30, \$1.25. Mrs. Rosa Janzen, Route 3, Gene-seo, Kan.

I.ARGE-BONED, DEEP RED, HIGH-scoring Rose Comb Rhode Island Reds, guaranteed. Highland Farm, Hedrick, Iowa. EGGS FROM S. C. REDS THAT ALWAYS win. Choice cockerels for sale. Write for mating list. Moore & Moore, 1239 Larimer Ave., Wichita, Kan.

ROSE COMB RED EGGS, FROM PENS mated to roosters costing from \$10 to \$30. Eggs at sacrifice prices after May 25: Fifteen eggs, \$1.00; 30 eggs, \$1.75, and 50 eggs, \$2.50. Also a few extra good roosters at \$2.50 and \$5.00 each, and good hens at \$1.00 each. W. R. Huston, Americus, Kan.

#### HAMBURGS.

SILVER SPANGLED HAMBURGS IN ALL their purity. Eggs, 15, \$2.00; 30, \$3.50, Harry Inman & Sons, Route 1, Keokuk, Ia.

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WHITE WYANDOTTES EXCLUSIVELY. Eggs, \$4.50, 100; \$1.75, 30. Mrs. Will Beightel, Holton, Kan.

LIGHT BRAHMA, WHITE WYANDOTTE, Indian Runner Duck eggs, half price. Ducks for sale. Mrs. Emma Ahlstedt, Roxbury, Kan.

ROSE COMB REDS, COLUMBIAN WYAN-dottes, Indian Runner Ducks, Golden Sea-bright Bantams. Eggs for hatching. Mail-ing list free. A. D. Willems, Minneola, Kan.

BUFF WYANDOTTES — CUT PRICES for balance of season. Eggs from all our breeding pens at \$1.50 per 15; \$5.00 per 100. Baby chicks, \$1.50 per dozen. Mating list on application. Wheeler & Wylie, Manhattan. Kan.

## Poul

Neither old fowls nor chicks will thrive if bothered with lice.

If the chickens are provided with a place where they can dust themselves, they will keep comparatively free from

If they are not so provided, then means must be taken to dust them with insect powder and spray their quarters with liquid lice killer.

A small ad in Kansas Farmer will help you to dispose of your surplus stock, and you can get better prices than when sold to the butcher. But anyhow, get rid of all that you cannot use to good advantage.

Market the culls as soon as you dis-cover that they have defects that would debar them from the breeding pens. You will not want them around, so when they become of marketable size, sell them to the butcher. Cull closely, for you will find by experience that even the best of hens will throw some culls. It pays to keep only the best.

Now that eggs are at their cheapest price, would be a good time to store some away for winter's use. There is no cheaper or handier way than to pack them in salt. Take any kind of crock or jar and place a layer of salt on the bottom, then a layer of eggs, cover with salt and so on till the jar is filled. They will keep for six or eight months. Some use a preservative of water glass for keeping eggs, others use lime water, but for family use, for preserving a few dozen eggs, there is no better or cheaper method than preserving with salt.

A little energy expended in keeping the grounds around your poultry plant in good condition is energy well expended. Nothing is so unsightly as a littered yard. If you will make it a rule to have a place for everything, and they bear expectation in its place. rule to have a place for everything, and then keep everything in its place, you will have no trouble. The throwing of this box here and that board there is what soon disfigures the place. A yard littered with bricks, boards, tin cans and every conceivable thing, is not an inviting place for a visitor. The clean, attractive yard, with nicely painted coops, makes an impression that the visitor never forgets.

While it takes a trap nest to tell exactly the status of the laying hens, still by observation one can tell an extra good laying hen than a poor one, and when a poor one is found she should be eliminated from the flock at once. Where it costs much more than a cent each to it costs much more than a cent each to produce eggs, the margin of profit is too small to be satisfactory. While the cost of eggs can be lessened by correct feeding, the best way to reduce the cost is by keeping hens of larger egg production. If a hen lays only a hundred eggs a year she is not profitable, where you have to buy everything that she eats. But if she lays 150 eggs a year, she will leave a margin of profit. So it is evident that if we are to be sure of a safe profit on our eggs, we must cull out the dent that if we are to be sure of a safe profit on our eggs, we must cull out the poor layers, keeping only such hens as will produce enough eggs to pay for their keeping, with a good balance in their favor. Hens that are four years old or more will never lay eggs enough to pay for their keep.

#### Caponizing Demonstration.

Probably the most valuable part of the program of the meeting of the state Poultry Federation at the Kansas Agri-cultural College, June 25 and 26, will be a caponizing demonstration. George Beauty of Codervelo Kan is to sive Beuoy, of Cedarvale, Kan., is to give this practical exhibition. He is one of the greatest experts in the United States and therefore his part of the program will be of very great value to all poultry men who desire instruction and enlightenment in caponizing.

#### Incubator Chicks.

Dear Sir: We hear so much about the difficulty of raising incubator chicks. I have been in the business for 21 years, always lost so many I was quite discouraged. This year I sent 50 cents (M. O.) to the Walker Remedy Co., E-13, Lamoni, Iowa, for their Walko Remedy Lamoni, Iowa, for their Walko Remedy and am having great success with it—makes me think I have found a gold mine. If I had only tried it long ago, just think of the hundreds, yes thousands of little downy fellows I could have saved. It certainly is a boon to incubator users.—MRS. CHRIS WOLF, Exira, Iowa.- (Adv.)

## r y Horticulture

In the drier sections of Kansas where In the drier sections of Kansas where such materials as straw, old hay and even barnyard manure are easily and cheaply obtained, the mulching of potatoes is a common practice. There are a few farmers who have successfully practiced the mulching of other garden vegetables. In those sections devoted largely to the growing of wheat, the gardens are planted in the spring with fine enthusiasm and high hopes, given a few cultivations, then, as the days grow hotter and drier and the garden grow hotter and drier and the garden needs the most attention, the wheat harvest demands the whole time of everybody on the farm and the garden is neglected.

Some few farmers who have practiced the mulching of the lets surmer and

the mulching of the late summer and fall vegetables and have grown good crops of these every year, realize the value of being able to dispense with cultivation during the busy summer sea-son. Occasionally we find a farmer who is over-enthusiastic concerning the mulching of his garden crops. The practice has it disadvantages as well as its decided advantages. Under certain conditions it may be quite as expensive or even more expensive than continued cultivation. This is especially true of those crops which must be cultivated a number of times before they are large enough to be mulched, and more true of those that mature very early in the season. With the wheat farmer, howseason. With the wheat farmer, how-ever, it is not a question of the cost but of dispensing with cultivation and at the same time the conserving of the moisture during that period when he knows that he will not be able to cultivate the garden because of lack of

A mulch of straw not only conserves the moisture in the ground but it pre-vents the growth of weeds, the two ob-jects of cultivation. While it may be truthfully said that mulching will de-velop a later crop, which may or may not be a disadvantage, and if the weather conditions are favorable may not even increase the yield over clean culture, with conditions as they are in

not even increase the yield over clean culture, with conditions as they are in the wheat growing counties it will be found that the mulch will, on the average, increase the yield one-third in crops that mature after mid-summer. Not all garden crops can be profitably mulched. There are some vegetables which mature before the ground is sufficiently warmed to make the practice safe. Some start so slowly that they have to be cultivated a number of times before the mulch is applied and if it is before the mulch is applied and if it is applied at all, it will be found more expensive than continued cultivation if expensive than continued cultivation if the time can be found to give the gar-den continued cultivation. Sweet corn is usually ready to "lay by" before the wheat harvest begins. Peas, radishes, lettuce, early onions, etc., usually ma-ture before the farm crops make such heavy demands on the farmer's time.

heavy demands on the farmer's time. There are a few crops of which there can be no question as to the profits of mulching. There are most of those vegetables that mature in late summer and fall, such as tomatoes, potatoes, sweet potatoes, string beans, cabbage, late root crops, cucumber, melons, etc. A mulch applied to these crops as soon as they have become well established in the soil, with the possible exception of potatoes which are often mulched soon potatoes which are often mulched soon after planting, will not only conserve the moisture, but will save labor, increase the average yield and, perhaps, reduce the expense of production.

Straw is usually available in the wheat belt. Barnyard manure serves

a two-fold purpose when applied to the garden as a mulch. Three inches of straw is sufficient for all purposes. Many of the disadvantages pointed out by those who have had only a limited experience with the mulching of vegetables are the results of too heavy an application of the mulch. Three inches will retain the moisture and prevent the growth of the weeds. A heavier application will retard growth and pre-vent light showers from reaching the earth below, especially if the ground is on a hill side.

The mulch should not be applied too early in the spring. The ground should have time to become thoroughly warmed. After a heavy warm rain, coming the last of May or first of June, is a good time to apply the mulch.

The season thus far this spring has been almost ideal for the beauty day.

been almost ideal for the home garden.
The ground in most sections is well soaked. A mulch applied now will conserve the moisture and make sure that crop of vegetables which so many families on Kansas farms are lacking. It is at least worth while to try it on a portion of your garden for a com-parison of results.—George O. Greene, Horticulturist K. S. A. C.,



#### The Biggest Thing in the Clock Business

Big Ben is the biggest thing today in the alarm clock business.

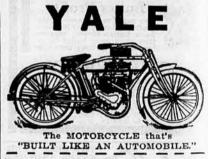
He is only two years and a half old, but he's already getting more work from the States than any clock alive. In two years and a half time, 18,000 jewelers—70% of the total number of United States watchmakers— have already adopted him. Two million and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by.

He is really two good clocks in one— a crackerjack of a timekeeper and a crackerjack of an alarm.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings five minutes steadily or ten intermittently. If he is olled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is \$2.50 anywhere in the States, \$3.00 anywhere in Canada. It you can't find him at your jeweler's, a money order mailed to Westclox, La Salle, Illimis, will send him anywhere you say, express charges prepaid.

## **BIG BEN**



J. C. HARDING CO., 106 E. Sixth St., Topeka, Kan. Please mail me your "Big Y" literature.

**PURE BRED POULTRY** 

#### LANGSHANS.

EXTRA BIG-BONED HIGH-SCORING Langshans, guaranteed. Osterfoss Poultry Farm, Hedrick, Iowa.

BLACK LANGSHANS—PEN, \$1.50 PER 15, \$2.75 per 30; open range, \$1 per 15, \$1.75 per 30. Good hatch guaranteed. D. W. Wolfe, Route 2, Carrollton. Mo.

#### BUFF COCHINS.

FOR SALE—BUFF COCHINS OF QUAL-ity. Send for mating catalog. J. C. Baugh-man, Topeka, Kan.

#### **LEGHORNS**

S. C. BUFF LEGHORNS—EGGS FROM choice birds, 30, \$2; 100, \$4.50. J. A. Reed, Lyons, Kan.

FOR SALE—ROSE COMB BROWN LEGhorns, stock and eggs. Mrs. J. E. Wright, Wilmore, Kan.

EGGS FROM PURE-BRED S. C. BROWN Leghorns. \$1 for 15; \$4 for 100. H. N. Holdeman, Meade, Kan.

SINGLE COMB BROWN LEGHORNS exclusively. Choice farm flock, carefully mated. Eggs, \$3.00 per 100. Mrs. D. A. Wohler, Hillsboro, Kan.

MY STANDARD BRED S. C. BUFF LEG-horns won at Newton 1st cock, 1st and 2d cockerel, 1st, 2d and 3d hen, 1st, 2d, 3d and 4th pullet, 1st pen. Stock for sale-cockerels \$1 and up. Eggs \$2.50 for 15; \$5 for 100. S. Perkins, 801 E. First Street, Newton, Kan.

# HOME CIRCLE



#### BRAD'S BIT O' VERSE.

Get the Habit.

Once in a while you should try to look pleasant, cheering the folks as you amble along; once in a while you should sing like a peasant, yodling a chorus that's lusty and strong. Don't go around looking sad and forsaken, voicing your anguish and howling with woe; tell Mr. Gloom he is badly mistaken; try it, and maybe the habit will grow. Once in a while you should try to be happy, even at dawn when you rise from your couch; smile as you tackle your sausage and "frappy;" nobody loves a chronic old grouch. Try to be friendly and helpful and cheery, striving to do something good on the way; lifting the fallen and boosting the weary; try it, and maybe the habit will stay. Once in a while you should think of the desister down their boost habit. weary; try it, and maybe the habit will stay. Once in a while you should think of the daisies, doing their best the big world to make bright; cut out the fears and the clouds and the hazes, lifting your eyes to the welcoming light. Strike up a roundelay, get the glad habit; let your long visage round out with a smile; look for a supheam and jorfully get. look for a sunbeam and joyfully grab it; try to look jubilant once in a while.

Stains on raincoats may often be re-moved by rubbing them with a piece of raw potato.

Washing soda will be found very help-ful in removing stains from granite ware -Albany Journal.

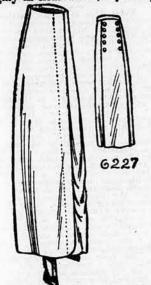
It is not difficult to give jewelry a rich luster if the articles are rubbed with a cloth wet with alcohol diluted onehalf. Then it should be rubbed dry with a soft cloth.

In preparing sauce of any kind, to serve with a sardine or salmon dish, the as a basis quite as well as butter or

When commencing a medallion in crochet, instead of making a chain and joining it to make a ring, just make a long stitch and put into this as many stitches as required, then draw up the end of the thread. This is a nice way, also, to start the center of a button.

And ever near us, though unseen, The dear immortal spirits tread; For all the boundless universe Is life—there are no dead.
—LORD LYTTON.

The English society of arts offered a prize for the best process of cleaning silk, woolen and cotton fabrics—one that would not change their color or injure them in any way. The winning recipe was as follows: Grate two good sized potatoes into a pint of clear, clean, soft water; strain through a coarse sieve into a callon of water and let the liquid a gallon of water, and let the liquid settle. Pour the starchy fluid from the sediment, and it is ready for use. Rub the articles gently in the liquid, rinse thoroughly in clear water, dry and press.



No. 6227—Draped Three-Gored Skirt. The draped skirt is worn by everybody. This skirt has three gores and closes at the side of the front, where it is slightly drapeć. In the back there is a wide panel in box plait effect. All soft cotton fabrics, ratine, pongee and such slik and wool mixtures as crepe and kindred fabrics may be used in making this skirt. The pattern, No. 6227, is cut in sizes 22 to 30 inches waist measure. Medium size requires 3% yards of 44-inch material. Price of pattern, 10 cents.

Care should be taken when poaching eggs not to allow the water to boil after the eggs have been put into it as the bubbling of the water makes the edges ragged looking. The eggs should cook slowly and quietly. But be sure the water is boiling when the eggs are put in

The French have a remedy for treating corns which is said to be infallible. Boil until tender the tough outer skin of several strong onions. While still warm bind them over the corn with a linen bandage. If fresh applications are put on night and morning the corn should disappear in two or three days.

A way of working stems which seems well worth trying is the following: First make a line of fine running stitches, then run again on the same line, making the surface stitches of the second line cover the distance between stitches of the first; thus you have a continuous line. Now work over and continuous line. Now work over and over these stitches, without catching into the material; you will have a smooth, even cord or roll, very effective and quickly done.

A Use For Toothpicks.

After stuffing a fowl for the oven, draw the edges of the incision as closely together as possible. Stick toothpicks through the flesh in such a manner that about an inch will protrude from each side from the incision and ner that about an inch will protrude from each side from the incision, and about an inch apart the entire length of the opening. Then take a stout cord, place the center around the bottom pick, and weave from point to point as one would lace a shoe. Tie at the top. At the neck, stick two picks straight through, and wind a cord tightly around them on one side, tie and slip, then do the same on the other side. then do the same on the other side. When the fowl is removed from the oven all that is necessary is to remove the picks. The cord will be loose so it can be snipped in two or three places and drawn out easily.—McCall's Magazine.



No. 6214—Ladies' Dress. This smart gown would make an excellent going-away dress for a bride, or a dressy street dress for any woman. It is made with a shoulder yoke across back and front, extending well down on the shoulder. Here the plain sleeve is attached. The skirt has four gores. It opens in front over a small panel and may have either normal or raised waist line. The pattern, No. 6214, is cut in sizes 34 to 42 inches bust measure. Medium size requires 3% yards of 44-inch material. Price of pattern, 10 cents.

## Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your salvertisement here reaches buyers read the classified "ads"—looking for bargains. Your salvertisement here reaches buyers read the classified "ads"—looking for bargains, Your salvertisement here reaches over 300,000 readers for 4 cents a word for one week; 8 cents a word for two weeks; 14 cents a word for for some weeks. Additional weeks after cents a word for three weeks; 14 cents a word per week. No "ad" taken for less than 50 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order.

SITUATIONS WANTED ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

HELP WANTED.

FREE ILLUSTRATED BOOKLET TELLS about 300,000 protected positions in U. S. service. Thousands of vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Just ask for booklet S-809. No obligation. Earl Hopkins, Washington, D. C.

WE WANT A MAN WITH RIG, FARMER preferred, to drive our representative and introduce him to farmers who should buy old line life insurance from one of the best companies doing business in Kansas. Good pay. Reference, any bank in Topeka. Address J. E. Spalding, Topeka, Kan.

MEN AND WOMEN WANTED FOR GOV-ernment positions. \$60 to \$100 month to commence. Vacations. Steady work. Over 12,000 appointments this year. Parcel post requires several thousand. Influence unnec-essary. Write immediately for free list of positions. Franklin Institute, Dept. 685, Rochester, N. Y.

#### REAL ESTATE.

LIST YOUR TRADES—GIVE COMPLETE description first letter. Frank King, Atlanta, Kan.

BARGAIN—A NICE SMOOTH 80 ACRES f tillable land, only 7 miles from Salina; 3,200.00. Write for list. V. E. Niquette, alina, Kan.

160 ACRES, THREE MILES FROM EAS-ton; 145 plowable, lays nice, good improve-ments. \$9,000. Edd Searles, Easton, Leav-enworth County, Kansas.

FOR SALE OR TRADE—A GOOD DAIRY farm; 160 acres; 50 acres good bottom land, sito, some alfalfa, close to town. Roy Sanderson, Quincy, Kan.

CALIFORNIA LAND. SEND FOR CAT-alog. Properties in all counties. Valuable, reliable information. C. M. Wooster Co., Phelan Bldg., San Francisco.

TRADE FOR FARM—TWO FINELY improved tracts; 20 acres Atlanta, 2½ acres Winfield, Kan. Good rental. Save commission. Owner, Frank King, Atlanta, Kan.

EAST TEXAS. A FINE 300-ACRE FARM with first-class residence, one mile from Jefferson. One hundred acres in cultivation, balance in timber. Will make low price and good terms if sold at once. Box 714, Jefferson, Texas.

FOR SALE—SUBURBAN HOME AT 224
South East Street. All modern. Nine rooms,
wash house, cistern and city water, good
barn, fine fruit; 8 acres. G. W. Hurley,
Emporia, Kan.

BEST CORN, ALFALFA AND STOCK farm for sale in Nuckolls County. 240 acres smooth new land, large house, barns, sheds, 30,000-bushel grain elevator; man can handle 1,000 head cattle. Brown Land & Loan Co., Superior, Neb.

WIDOW MUST SELL 400 ACRES, INcluding 40 choice Hoistein cows, all crops, 100 acres valuable timber, modernings worth \$7,000; running water. Price, \$10,000. Easy terms. Free catalog. C. J. Ellis, Farmers Bank, Springville, N. Y.

STOCK AND GRAIN FARM, 760 ACRES; 200 acres bottom, 300 acres tame grass, 200 acres timber; living water; sure crops; large house and barn; fine climate; the best proposition in the Southwest. Price, 320,-000. Terms on part. S. H. Nay, Owner, Clifty, Ark.

FARMS WANTED—WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property Free. American Investment Association, 43 Palace Bidg., Minneapolis, Minn.

EIGHTY ACRES—35 ACRES IN CULTIvation, balance fine timber; 2-room frame house, barn, wagon shed, hen house, workshop, smoke house, cistern, paled garden, bearing orchard, on two public roads, convenient to school, church, store and post office. For quick sale, only \$10.00 per acre. Terms on part. Crain, Licking, Mo.

COME TO MARION, KAN., THE IDEAL home town. Can sell you a choice plot 150 x250 feet with two-story frame house, eight rooms (one unfinished), modern improvements except bath tub, good barn, fine old shade, on corner paved street, handy to high school. Price, \$3,000, on terms. Here is merit for home or investment. Box 117.

TEXAS PANHANDLE, HANSFORD County.—640 acres magnificent level prairie upland, all tiliable, 200 acres cultivated; very rich chocolate sticky soil; splendid for wheat, oats, corn, milo maize, sorghum; sroom house, barn, well, windmill. Well worth \$14 per acre. Will sell at \$8.50 per acre. One-third cash, H. G. Damon, Owner, Corsicana, Texas.

CAN'T MAIL YOU A FARM, BUT WE can send you a free sample of soil that will locate you on one. Fruit, alfalfa, grain, potatoes, poultry, hogs—the dirt with dolars in it. Low-priced land, fine California climate. Fairport, new town on Goose Lake—ninety miles of shore line. Irresistibly attractive. Ask for "Free Soil and Full Particulars." Land Commissioner N. C. O. Ry., Fairport, California.

ALBERTA—658 ACRES BEAUTIFULLY situated, mixed farm; 1½ miles frontage on lake; nearly 500 acres tiliable, balance pasture; abundant water; 70 acres broken, 500 fenced, cross-fenced; good house, 2-story barn, stables, dairy, granaries, hen house, etc. Dead snap for immediate sale, \$16 per acre. \$3,700 cash, balance arranged. About this and other bargains write George Grant, Herald Block, Calgary, Alberta.

#### HOGS.

350 BIG-TYPE MULEFOOT HOGS FOR sale. Dunlap, Williamsport, Ohio.

REGISTERED DUROC SPRING PIGS. both sexes. Bred gilts. Yearling and aged boars. Prices reasonable. James Weller,

#### VIRGINIA FARMS.

WRITE FOR LITERATURE DESCRIB-ing great bargains in Virginia farm lands. Venable & Ford, Lynchburg, Va.

#### WYOMING.

COME TO PINE BLUFFS, WYOMING, where farming pays—where 1,600 cars of grain were shipped out last season—where on an average the crop each year on every acre under cultivation more than pays for the land—where oats yield \$5 to 100 bushels per acre, wheat \$0 to 40 bushels—where the land cultivates easily—where we have fine climate and ample rainfail—where those who are here have made good. Will refund your expenses if these statements are untrue. I own 30,000 acres of virgin soil, stored with the untilled riches of centuries, which I ofter for sale at \$10 to \$25 per acre on terms within your reach. Let me send you descriptive literature. C. L. Beatty, Pine Bluffs, Wyo.

#### CATTLE.

SOME CHOICE JERSEY BULLS THAT must be sold quick. Two nearly ready for service. Chester Thomas, Waterville, Kan.

A FEW HIGH-GRADE HEIFER CALVES two to four weeks old, \$15 each. Burr Oak Farm, Whitewater, Wis.

WELL BRED GRADE HOLSTEIN BULL calves crated at \$20 per head while they last. Arnold & Brady, Manhattan, Kan.

REGISTERED HOLSTEIN HERD—BULL and bull caives of choice breeding. Price reasonable. Carl Snyder, Route 7, Topeka, Kan.

FOR SALE—25 HEAD HOLSTEINS, 8 TO 6 years old, fresh and springing; also Jerseys, Guernseys, a few fawn Jersey healfers, bred; special prices; satisfaction guaranteed. Jack Hammel, 215 Adams St., Topeka, Kan.

FOR SALE — 75 HEAD OF YOUNG dairy cows, just shipped in from Minnesota. Jerseys, Guernseys and Holsteins. Prices reasonable for quick sales. Also have some extra fine 2-year-old bulls. O. N. Himelberger, 405 Filimore St., Topeks, Kan.

BONNIE BRAE HOLSTEINS FOR SALE. Eighty head high-grade young cows, two-year-olds and bred yearlings. These cattle are strictly first class, with many heavy springers. Come and see them. Ira Romig, Station B, Topeka, Kan.

#### SHEEP

REGISTERED SHROPSHIRE SHEEP. Special prices on yearlings, twos, and my herd ram, three years old. Also a few yearling ewes. D. E. Gilbert, Beloit, Kan.

#### DOGS.

SCOTCH COLLIES - WESTERN HOME Kennels, St. John, Kan.

FOR SALE — SCOTCH COLLIE PUPS. Sable and White stock farm. U. A. Gere, Seward, Kan.

A CHOICE PAIR OF FOX TERRIER breeders; female bred; good ratters. A. D. Willems, Minneola, Kan.

#### YOUNG MAN

YOUNG MAN, WOULD YOU ACCEPT and wear a fine tailor-made suit just for showing it to your friends? Or a Slip-on Raincoat free? Could you use \$5 a day for you a steady job. Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Co., Dept. 321, Chicago.

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ROOFING COMPOSITION, SLATE, TILE, sheet metal, tinwork. Rinner & Warren, Topeka, Kan.

WE PRESS, CLEAN, DYE, MAKE AND repair clothes. Glenwood Cleaners, Topeka, Kan.

H. W. BOMGARDNER, FUNERAL DI-rector. Excellent new chapel. Best atten-tion. Topeks, Kan.

LADIES — WE SELL THE LATEST hand bag made. Lasts for years. Guaran-teed. Strong, serviceable and stylish. Write today. The Star Supply Co., Creighton, Neb.

MAIL PRESCRIPTIONS TO GIBLER'S drug store. Filled correctly, sent parcel post. Topeka.

BEST MANURE LOADER—ONE MAN and team loads 50 loads manure a day. Cornstalks, stack bottoms, loaded easily as dirt. Write Anderson Mfg. Co., Osage City, Kan.

#### GOATS

TOGGENBURG, FAANEN, HEAVY MILK-ers. Pea Fowl, Pekin Ducks, Mink. Pros-pectus, 4 cents. Golden Goat Reserve, Combs, Ark.

#### BEE SUPPLIES.

BEE SUPPLIES. ROOTS GOODS. SEND for catalog. O. A. Keene, 1600 Seward Ave., Topeka, Kan.

FOR SALE—THIRTY-SEVEN 8-FRAME empty supers, good condition, painted, 20c each. O. A. Keene, Topeka, Kan.

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SEND FOR FREE BOOKLET, ALL about patents and their cost. Shepherd & Campbell, Patent Attorneys, 500-R Victor Bldg., Washington, D. C.

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## **Bargains in Land**

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

TO EXCHANGE — Western Kansas land nd other property. Submit propositions. V. E. WEST, Ransom, Kansas.

WE MAKE EXCHANGES OF ALL KINDS.
List your farms or business with us. Write
Termini, with Bacon Realty Co., Topeka,
Kan.

OUR NEW YORK IMPROVED FARMS are great bargains at present low prices. Send for free list. McBurney & Co., 703 Fisher Bidg., Chicago, Ill.

640-ACRE HOMESTEAD

In Nebraska, Platte Reserve, open to entry after October 1, 1913. Send \$2.00 for complete map to A. J. VAN ANTWERP, County Surveyor, Broken Bow, Neb.

THE BEST OF ALFALFA LAND e had. Will yield from \$50 to \$100 per . Can be had at a very low price and he heat of terms acre. Can be had on the best of terms.

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KINGMAN 1,120 a. solid body, 350 cult., 500
COUNTY
KANSAS
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LAND CO., Kingman, Kansas.

ALWAYS HAVE

Just what you want in farm or city property. A new list just out. Write for it. List your sale and exchanges with me. Hardware for sale. rdware for sale. ED A. DAVIS, Minneapolis, Kansas.

FARMS AND RANCHES FOR SALE.—Wheat, corn, alfalfa and grazing land; any size tract you want, from 80 acres to 18,000 acres, from \$10.00 to \$60.00 per acre. This is the banner wheat county. Write me for list. C. E. SETTLE, Coldwater, Kan.

DAIRY FARM

240 Acres, highly improved, in high state of cultivation; good orchard, silo, alfalfa; near best college town. \$52 per acre. Write for farm list. T. B. GODSEY, Emporia, Kan.

BARGAIN —200 Acres Fine Bottom Land, above overflow; virgin timber, near railroad. \$4,000, terms. Also handle exchanges everywhere. List free. BURROWS, Warm Springs, Ark.

1,000 ACRES OF WHEAT LAND WANTED.
Not farther out than Trego County. Give
good description in the first letter. Must
be priced worth the money. Don't care for
any improvements.
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GEORGIA: McDuffle County's large plantations offered in small tracts, well located and improved, \$15 to \$25 acre. Fine public roads, telephones, grain, cotton, fruits, live stock grow to perfection; ideal climate, fine citizenship. Free booklet.

President Board of Trade, Thomson, Ga.

FINE 160 A. FARM, lime stone soil, good house, barn, etc. Nicely located. Will produce wheat, corn, clover, alfalfa. Part cultivated, balance pasture, meadow. Close to Fredonia, Kan., in oil gas beit. Will take \$40 a. and is worth \$75. Address Owner, Lock Box 807, Fredonia, Kan.

THE GREAT SUMNER COUNTY produces good crops corn, wheat and alfalfa when crops fail in other portions of the state where land is double the price. Write for list of bottom and upland farms for sale.

WM. HEMBROW, Caldwell, Kan.

FOR SALE—60 Acres—All bottom land; some timber, running water, small improvements, 3 miles from Manhattan, the seat of the largest agricultural college in United States. Price, \$6,500.00.

Bardwell Real Estate Co., Manhattan, Kan.

RANCH--1,880 acres

Modern improvements, 800 acres alfalfa
land. Trego County, Kansas, \$25.00 acre,
encumbrance \$7,000. Want smaller farm.
BUXTON, Utica, Kansas.

WANTED—Stock ranch in exchange for half section farm, well improved, close to good town, in best farming community in Marion County. All smooth land, deep, black soll, highly improved farms all around. Priced at cash value.

MOTT & KOHLER, Herington, Kansas.

DICKINSON COUNTY BARGAINS.
We have many fine creek and river bottom farms, also splendid upland farms for sale. Soil deep rich black loam, producing the big corn, wheat and alfalfa. Our prices are reasonable. Write for terms and list.
Briney, Pauts & Danford, Abilene, Kan.

SPLENDID CORN FARM—147 a., nearly all under cultivation, nearly all Dragoon bottom above overflow; fine corn, wheat and alfalfa land; 4 mi. Burlingame, 5 mi. Osage City, Osage Co., Kan. Fair improvements, fine location. Price, \$10,000, half down. Ask for list.

F. C. BRACKNEY, Burlingame, Kan.

OPPORTUNITY KNOCKS At every man's door. This knock is for YOU, if you have money to buy one of the best farms in Kansas, not far from Kansas City and adjoining one of the nicest cities in Kansas. Will earn 10 per cent net this year. \$20,000 will handle, balance long time, 5 per cent.

JOHN A. KERR, Independence, Mo.

Fine Home, Little Money.—160 acres, 4 miles southwest Sharon Springs; plenty buildings, good wells, 40 acres suitable for alfalfa, 8 to 10 feet to water; fenced; 35 acres in cultivation. Price, \$1,600; \$580 cash, \$440 due January, 1914, without interest, \$480 on or before 8 years at 5 per cent interest. Come and you will buy.

Harry C. Wheeler, Sharon Springs, Kansas.

THIS IS A SNAP

160 acres nice level land, 12 miles from sodge City, Kansas, 2 miles from switch a D. C. & C. V. Ry. Co. 100 acres ninced with two-wire fence, 60 acres in heat, one-third goes with place. \$23 acre.

An acre.
H. B. BELL LAND COMPANY,
Commerce Building, Dodge City, Kansas.
Phone 2.

BALANCE \$1.50 PER MONTH

Pays for a level, well located, 50x140-ft. lot at \$30 for inside lots and \$35 for corners—in the prosperous little city—Plains, Kansas, where prices are advancing rapidly and good profits assured. Send first payment for contract on guaranteed lot, or write for complete information, MUST ACT QUICK.

JOHN W. BAUGHMAN,

Drawer B, Plains, Kansas.

LAND Beal Estate Dealers, Farmers and others with property of any kind try the Real Estate and Land Columns of Kansas Farmer, which reaches the farmers with the money to buy. Circulation in excess of 60,000 guaranteed. Kansas Farmer can do the work for you. No other farm paper reaching this great circulation as Kansas Farmer. Write for rates and further information to

ther information to KANSAS FARMER, Topeka, Kansas.

#### BEST TOWN TO LIVE IN.

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

LOWER YAKIMA VALLEY, WASH.

Twenty acres at Richland, Benton County, Wash., on the Columbia River, highly improved, irrigated orchard tract set to best varieties of commercial apples, with peach and pear fillers. Trees 4 years old and will come into bearing next year. Best of soil, abundance of water and mild climate, 4 acres of strawberries paying \$400 per acre; alfalfa yielding 4 cuttings, or 8 to 10 tons per year. Comfortable home and good barus with a well equipped dairy and 10 grade Jersey cows. For particulars address owner, C. D. MITCHELL, Richland, Wash.

WANTED — TO BUY THREE GENTLE Shetland ponies. Must be sound and young and weigh between 300 and 600. Send photo if you have it. Address P. O. Box 82, To-

GOOD PAY AND PERMANENT BUSIness connection for one man in each county
in Kansas, Nebraska and Oklahoma to look
after established business. \$25 or better per
week at start can be made, working small
towns and rural routes. Good chance for
rapid advance in earnings. Complete outfit
free and credit given. Previous experience
unnecessary. Write at once. Fireside
Sales Co., 623 Jackson St., Topeka, Kan.

AUTOMOBILE — WILL TAKE \$1;025.00 for my \$4,000 automobile. Will demonstrate to buyer's satisfaction. No trades considered. Speak quick. Address Bargain A. Care Kansas Farmer, Topeka.

#### FIELD NOTES

Merten's Good Polands,
The writer recently visited E. E. Merten,
Poland China breeder at Clay Center, Kan.
His herd boar is King Hadley 3d by King
Hadley 2d, he by the noted Big Hadley.
The dam of King Hadley 3d was a daughter
of Granetta, a litter sister to the noted
boar, Bell Metal, by Expansion. This boar
is assisted by Kansas Wonder, a son of Big
Bone Pete and out of very large Wonder
bred sow. Mr. Merten has bought herd
sows from the best breeders of this and
adjoining states and has in his herd at this
time daughters of Old Expansion, What's
Ex, Grand Look Jr., and other boars of note.
There is a fine bunch of spring pigs on the
farm now. He will build a new hog house
and make other improvements in line with
his ideas of maintaining a herd. Write Mr.
Merten about the hogs and visit him whenever convenient.

Enos Offers Choice Bred Gilts.

Enos Offers Choice Bred Gilts.

A. R. Enos, Romona, Kan., starts a Poland China card this week. Mr. Enos breeds an extremely large hog, maintaining quality and finish. He offers 20 splendid gilts of July and August farrow, bred for August and Soptember litters. These gilts weigh around 250 pounds each in nice breeding condition. They were sired by A Wonder's Equal, a son of old A Wonder, and dams are large sows sired by Nox All Hadley by Big Hadley. The gilts are being bred to Mr. Enos's new boar, Orphan Chief, purchased from Boy Johnson of South Mound, Kansas. This boar is one of the large boars of the breed and certainly will make a great nick with these gilts. The writer can think of no better investment for any breeder or farmer. These gilts are being priced at \$35 and \$40 per head. Write while they last and mention Kansas Farmer.

Normandale Jerseys and O. I. Cs.

George E. Norman & Sons of Normandale Farm, Newtown, Mo., and owners of Normandale herds of Jersey cattle and O. I. C. swine, claim October 14 as the date of their annual fall sale of O. I. C. hogs. Normandale O. I. C. herd is one of the best herds now assembled, and their fall offering will be one of the best of the season. They have a great herd of O. I. C. sows sired by the best boars of the breed. The sows of the herd have been very carefully selected and all are of the ideal brood sow type. The herd is headed by King Dam by Frost's Buster by Thea. King Dam is a very high-class boar. He is one of the big-boned easy-feeding kind with lots of quality and is one of the good breeders now in service, and is from Dan Wilcox's Crystal herd. They also have a young boar in service that is from the J. C. Kennedy herd. This youngster is an all around good individual and a good breeder. The spring pigs of this herd are a very fine lot of big-boned growthy fellows that have size and quality. A feature of this fall offering will be a lot of extra good fall gilts, some extra good fall boars and several tried brood sows that are high class. The fall gilts and boars are a fine lot and their entire offering for the fall trade will interest breeders of high-class O. I. C. hogs. The Normandale herd of Jersey cattle is also extra good. It is made up of a splendid lot of individuals representing Golden Fern, St. Lambert, Viola's Golden Jolly, Flying Fox and Tormentor blood lines. Norman & Sons buy only the best individuals of choice breeding, and price is never an object with them when the individual and breeding are right, and Normandale Jersey herd is one of the extra good ones.

Spring Grove O. I. C. Herd. Normandale Jerseys and O. I. Cs.

Spring Grove O. I. C. Herd.

Breeders of O. I. C. swine throughout the corn belt will be pleased to learn that S. D. and B. H. Frost of Kingston, Mo., are again building up an extensive O. I. C. herd. The Frost Brothers, associated with their father, Judge L. L. Frost, a ploneer O. I. C. breeder with a wide reputation as a scientific breeder of O. I. C. swine with size and quality, have constributed very largely to the rapid improvement of this popular breed

of swine. Their great prize winning herd at the World's Fair, St. Louis, was the sensation of the swine exhibit. It was the greatest prize winning herd on exhibition at the fair, and ever since that time Spring Grove O. I. C. herds have captured the prizes in the strongest shows in the country. They have a splendid herd of sows, many of them descendants of Jackson's Chief 4759 and White Oak 1029, the two great World's Fair prize winning boars, and on the dam's side many of them trace to the famous Tutesy 3913, the World's Fair prize winning sow. They have one of the outstanding finest lots of spring pigs that the writer has seen this year. They were sired by their O. K. Mikado boar and Don Ben, a splendid young boar tracing to Callaway Sid, the Missouri State Fair winner. They are also using a very high-class youngster by White Eagle Chief. This youngster is a show boar. The Frost Brothers are maintaining all the high quality that won for their herd at the World's Fair. Their offering for the fall trade will be strictly of that class and it is possible that they may exhibit a show herd at the leading fairs this year. Watch for further announcement concerning this herd.

BARGAINS IN EVERYTHING MAY BE found in these classified columns. For a quick ready sale on anything, try a small ad in these columns, which are read in the homes of over 60,000 subscribers. Rates, 4 cents a word; four insertions or more, 3½ cents a word. For further information address Kansas Farmer, Topeka, Kan.

C. W. Parson's Duroc Sale.

C. W. Parson's Duroc Sale.

On Saturday, June 7, C. W. Parsons, Harper, Kan., sold 46 head of spring and fall yearling sows and glits. The offering was in the pink of condition and should have sold for more money, but the local conditions for crops in the southwest part of the state are not good and the local support among farmers was poor. There is certainly much credit due Mr. Parsons in presenting such a nice offering. While he made a great sacrifice in selling at this time of the year, we predict that every one sold will prove a bargain and make money for the purchaser. Mr. Parsons is a young man in the breeding business, but he knows how to grow and develop good hogs. The 46 head, including a number of late fall gilts, sold at an average of better than \$52.



One of Frost's Winning Herds.

Jeff Constant & Son's Duroc Sow Sale.

Attention is called to the sale advertisement of Jeff Constant & Son, Denver, Mo. On Friday, June 27, they will offer a selection from their famous Duroc herd, consisting of bred sows and glits, fall glits open, and an outstanding lot of August and November boars. The sows and glits to go in this sale are a choice lot. They have been carefully selected and are the ideal brood sow type for which the Constant & Son herd is famous. Among them will be daughters of their great herd boars, W. J. C.'s Prince of Colonels by Prince of Colonels and I Am Bell's Chief by Ohio Chief. They are out of such sows as Princess Queen by W. J. C.'s Prince of Colonels, dam J. D. S. Improver Model Beauty 2d by Elder's Wonder by King Wonder; W. J. C.'s Queen by I Am Bell's Chief, dam Myrtle's Crimson Wonder by Crimson Wonder Again; Chief's Bell by Ohio Chief, dam Savannah Belle by Red Chief; I Am Woolen's Best by Duroc Improver, and other great sows of their herd. They are bred to farrow in August, some of them to W. J. C.'s Prince of Colonels, some to I Am Bell's Chief, and others to their fine young herd boar, Constant's Crimson Wonder Again, dam Proud Sixteen. The offering is one that will interest Duroc breeders wanting breeding stock that is bred right and that is an ideal lot of individuals. The August and November boars to go in this sale are a choice lot. They were sired by W. J. C.'s Prince of Colonels and I Am Bell's Chief, They are out of the very best sows of the herd, and breeders will find herd headers in this offering. Send for catalog at once and arrange to attend this sale if possible. Free conveyance from Grant City and Albany, Mo., on morning of sale. Please mention Kansas Farmer when writing for catalog.

For lack of space we omit report in full. Col. Lafe Burger did the selling.

For lack of space we omit report in full. Col. Lafe Burger did the selling.

Preservative Value of Natural Asphalt. It is a surprising fact to many that not only did natural asphalt exist thousands of years ago, but that its remarkable preservative qualities were known to the ancients from almost remotest periods of antiquity. Even though the knowledge of this wonderful product of Nature was lost during the middle ages, the rediscovery of natural asphalt in modern times finds it just as valuable as in days of old. Its value is increasing daily in these practical times because of its recognized utility in many ways and places. There are many deposits of this material in different parts of the world but by far the largest supply of natural asphalt of uniform quality is obtained from the asphalt lake on the Island of Trinidad and Bermudez Lake in Venezuela. South America. First, we have the asphalted city streets—the material which has revolutionized street-paving methods and done wonders toward reducing the nerve-racking noises incident to city life. And the use of natural asphalt has also extended to country roads, which transforms the former rutty, sandy, dusty, muddy trails into wonderful highways of travel, adding greatly to the loys of the motorist as well as to those who are thus relieved of "taking his dust." Its use does not stop here, for as a waterproofing agent in foundation walls, floors, tunnels, or any masonry below or above ground, natural asphalt plays a vitally efficient part. Even in the form of a paint natural asphalt is said to be a satisfactory preserver of iron fences, stee girders, and metal work of any character, from rust and all decaying influences. New uses are constantly being found for this invaluable product of Nature. This has recently been demonstrated on the farm by the use of natural asphalt for treating posts and



Group of Breeding Cows Belonging to C. S. Nevius & Sons, Chiles, Kan.

Shorthorns in Demand.

The sale of Shorthorn cattle advertised by C. S. Nevius and the State Agricultural College for June 6 was a great success. It was a clean offering of good useful cattle and the prices received were very satisfactory. Forty-six head hold for \$9,835, an average of \$213.80, including a number of small bull calves. Colonels Harriman, Snyder and James did the selling. Following is list of prices.

1—Graves & Wilson, Wellsville, Kan... \$55 1½—Robt. R. Schultz, Holton, Kan... \$65 2—J. Ellis, Paola, Kan... 355 3—W. F. Bleam, Bloomington, Kan... 325 3—W. F. Bleam, Bloomington, Kan... 325 3—J. A. H. Cooper, Osborne, Kan... 325 3—J. The State of Hunter, Louisburg, Kan... 100 6—I. V. Allen, Burlington, Kan... 155 7—H. O. Billis, Paola, Kan... 130 9—A. F. Kitsner, Osage City, Kan... 110 10—Dave Rodgers, Stilwell, Kan... 85 11—Tomson Bros., Dover, Kan... 255 12—Bellows Bros., Maryville, Mo... 300 13—J. H. McCulloh, Creighton, Mo... 275 14—Ed Stegman, Straight Creek, Kan... 305 15—Bellows Bros. 

other wood used in or exposed to dampness. Natural asphalt prolongs the life of timber indefinitely when properly treated. Thus the field for this centuries—eld product of Nature is ever broadening and is receiving new impetus in our own time and our own country especially, because of the scientific knowledge applied to its practical use.

new impetus in our own time and our own country especially, because of the scientific knowledge applied to its practical use.

Foley Has Won the Battle.

To establish a herd of registered hogs and invest money in high-priced animals in a locality where crops were as uncertain as in the western half of Norton County a dozen or more years ago, requires unusual energy and a faith such as removes mountains, but the same courage and determination that caused J. F. Foley of Oronoque to leave the home of his boyhood and build for himself a home in a new country sustained him in his desire to build up one of the first great herds of registered Poland Chinas in the western half of the state. It can well be imagined how foolish his transactions appeared to his neighbors and the low prices that must have followed. Scarcity of feed often made the pigs look like scrubs, and he was doubtless humiliated by the comparison his neighbors made. But now the battle is won and the farmers of his and adjoining counties know what Foley has been doing, and many a farmer has good high grade hogs that would never have had them but for the persistency of the man who knew he would win. The herd now numbers over 100, and at Mr. Foley's last winter bred sow sale his best buyers were the farmers of the surrounding country. They paid good prices and are making money from their purchases. Mr. Foley owns Blain's Last Hadley, bred by John Blain. This boar has done lots of good in the herd, and a number of his daughters are among the herd sows. The other boars are King Hercules and Blue Valley Look. Most of the pigs are by the last named boars, with several litters by noted Iowa a great line of sows bought last whiter. Among them is Ott's Big Orange, dam by Sensation, and others out of Long King dams and sired by Big Ben. Mr. Foley has a great line of sows and is now booking orders for boars and gilts for future delivery. He will not hold a fall sale, and offers the entire crop of boars in this way. Write him early and buy your boar when you can s

#### BERKSHIRE HOGS

75 REGISTERED BERKSHIRE SOWS
For Sale, sired by Danesfield Duke 10th
by Berryton Duke Jr. and Artful Champion by Rival's Champion. These sows
are high-class individuals and all trace
direct to the great boar, Baron Compton
imp. They are bred to Robin Hood Premier, one of the few line-bred Black
Robin Hood boars now living, and Ajar,
a son of Rival's Lord Premier. Four
hundred head in herd.
W. J. GRIST, Ozawkie, Kan.

#### LINSCOTT BERKSHIRES

Choice tried sows and fall yearlings or sale, sired by Rival's Queen Premier 14255 and Imp. Baron Compton, bred or summer and fall farrow to Robhood of the 16595. Also 25 selected boars and ilts ready to ship, February farrow by tobhood and Commander's Majestic. othing but tops shipped.

R. J. LINSCOTT, Holton, Kansas.

#### HAMPSHIRE HOGS

ECLIPSE FARM HAMPSHIRES.

Spring pigs, Gen. Allen, Pat Maloy, Messenger Boy blood, three of the great show boars of the

A. M. BEAR, HIGH QUALITY

HAMPSHIRES.

Headed by T. R.
Fancy, prize winner
1912. Am offering
Bessle 11982, tried
Fancy for June farrow. S. E. SMITH,
yons, Kansas.

### FIELD NOTES

FIELD MEN.

#### PURE BRED STOCK SALES.

Percherons.

Oct. 21-22, 1913—Woodlawn Farm, Sterling, Ill.

Jersey Cattle.

Nov. 3—Alvey Bros., Meriden, Kan. Sale at
Topeka, Kan.

Poland Chinas.

Oct. 3—Cline & Nash, Iola, Kan.
Oct. 4—Frank Michael, Erie, Kan.
Oct. 11—Wigstone Bros., Stanton. Iowa,
Oct. 11—D. S. Moore, Mercer, Mo. Sale at
Lineville, Iowa. (Big Spotted Polands.)
Oct. 20—L. V. O'Keefe, Stilwell, Kan.
Oct. 21—H. B. Walter, Effingham, Kan.
Oct. 21—H. B. Walter, Effingham, Kan.
Oct. 22—H. C. Graner, Lancaster, Kan.
Oct. 23—H. J. Paker & Son, Butler, Mo.
Oct. 23—R. J. Peckham, Pawnee City, Neb.
Oct. 23—R. J. W. Leeper, Norton, Kan.
Oct. 24—A. J. Swingle, Leonardville, Kan.
Oct. 24—A. J. Swingle, Leonardville, Kan.
Oct. 24—A. J. Swingle, Leonardville, Kan.
Oct. 24—A. J. Garrison & Sons, Summerfield, Kan.
Oct. 28—M. T. Williams, Valley Falls, Kan.
Oct. 30—Hubert J. Griffiths, Clay Center,
Kan.
Nov. 3—Joe Schneider, Nortonville, Kan.

field, Kan.
Oct. 28—M. T. Williams, Valley Falls, Kan.
Oct. 29—Walter Hildwein, Fairview, Kan.
Oct. 30—Hubert J. Griffiths, Clay Center,
Kan.
Nov. 3—Joe Schneider, Nortonville, Kan.
Nov. 5—R. B. Davis, Hiawatina, Kan.
Feb. 7—Wigstone Bros., Stanton, Iowa.
Feb. 10—H. B. Walter, Effingham, Kan.
Feb. 11—H. C. Graner, Lancaster, Kan.
Feb. 11—H. L. Faulkner, Jamesport, Mo.—
Old ofiginal Spotted Polands.
Nov. 12—J. H. Harter, Westmoreland, Kan.
Jan. 23—J. J. Hartman, Elmo, Dickinson
Co., Kan. Jan. 23—J. J. Hartman, Elling,
(10., Kan. Feb. 12—W. E. Long, Meriden, Kan. Feb. 13—J. E. Wills, Prairie View, Kan. Feb. 14—J. F. Foley, Oronoque, Kan. Sale at Norton, Kan. Feb. 17—L. E. Klein, Zeandale, Kan. Feb. 17—L. E. Klein, Zeandale, Kan. Sale at Manhattan.
Sale at Manhattan. Feb. 19—J. L. Griffiths, Riley, Kan.

Sale at Mannattan.

Peb. 19—J. L. Griffiths, Riley, Kan.

Duroc Jerseys.

June 27—Jeff Constant & Son, Denver, Mo. July 31—W. T. Hutchins, Cleveland, Mo. Oct. 17—Moser & Fitzwater, Goff, Kan. Oct. 28—R. P. Wells, Formoso, Kan. Oct. 31—A. M. Rinehart & Son, Smith Center, Kan.

Nov. 1—N. B. Price, Mankato, Kan.

Nov. 4—E. S. Davis, Meriden, Kan.

Nov. 8—C. C. Tonomas, Webber, Neb. Sale at Superior, Neb.

Jan. 26—R. P. Wells, Formoso, Kan.

Jan. 27—Ward Bros., Republic, Kan.

Jan. 28—W. E. Monasmith, Formoso, Kan.

Jan. 29—N. B. Price, Mankato, Kan.

Feb. 4—Moser & Fitzwater, Goff, Kan.

Feb. 5—Samuelson Bros., Cleburne, Kan.

Feb. 6—Leon Carter, Asherville, Kan.

Feb. 7—Horton & Hale, DeKalb, Mo. Sale at Rushville, Mo.

Feb. 7—E. G. Munsel, Herington, Kan.

Feb. 10—Kansas Agricultural College, Manhattan, Kan.

Feb. 12—J. A. Porterfield, Jamesport, Mo.

Feb. 20—John Emigh, Formoso, Kan.

Feb. 21—Dana D. Shuck, Burr Oak, Kan.

Chester White and O. I. C.
Oct. 14—George E. Norman & Sons, Newtown, Mo.
Oct. 16—J. S. Kennedy, Blockton, Iowa.
Nov. 3—Alvey Bros., Meriden, Kan. Sale at
Topeka, Kan. Topeka, Kan. Nov. 18-J. D. Billings, Grantville, Kan.

ov. 4—H. D. DeKalb, DeKalb, Iowa. Sale at Council Bluffs, Iowa.

Real Estate.

June 22—Stoneback Bros., Morganville, Kan.
F. L. Newton, Clay Center, Kan., Manager.

Andrews's Big Spotted Polands. Andrews's Big Spotted Folands.

James Andrews of Andrews Stock Farm,
Lawson, Mo., a leading breeder of old original big spotted Polands, reports spring liters doing fine. He has one of the best lots of big growthy spotted pigs in the history of Andrews Stock Farm, and his fall offering will attract breeders wanting the big spotted easy-feeding kind.

A Kansas Farmer fieldman recently visited Wes Tilley, Poland China and Hereford breeder at Irving, Kan. Mr. Tilley is one of the very successful breeders in his territory, and has one of the largest Hereford herds in Northern Kansas. He has about 125 spring pigs. We will have more to say about them a little later.

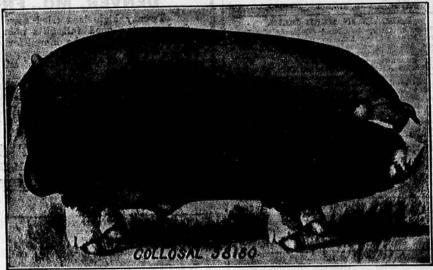
R. N. Riggs's Big Polands.
R. N. Riggs, Lawson, Mo., one of the progressive breeders of big-type Poland Chines, reports spring pigs doing fine. Mr. Riggs has an extra lot of youngsters this year. They are of the best big-type blood ince and he will have one of the good fall

Nielson Berkshires,
J. M. Nielson, Marysville, Kan., has his usual good bunch of pigs, although not many in numbers. His present herd boar is Rob Robinhood, a massive fellow now being fitted for the fall fairs. He is assisted by Robhood 4th by Robhood and out of the great sow, Berryton Bell, and Star Lee 2d. Some fall glits are also being fitted to show along with aged herd and young herd.

year and will also have an outstanding lot of rams ready for service for the trade. Mr. Elliott's flock was established over 20 years ago. His foundation stock was the best he could buy, and his motto has always been "Improvement." His flock has always been headed by imported rams and for many years it has been famous for the high quality of the breeding stock sent out. Breeders should keep this flock in mind when wanting high-class Shropshires. Watch for announcement later.

Dairy Class Sees Cows.

Last week the advanced class in dairy judging of the Kansas Agricultural College, accompanied by Professor Fitch of the Dairy Department, were the guests of Topeka dairymen, the class visiting the Holstein herd of H. B. Cowles and the Guernsey herd of Mr. O. E. Walker, incidentally visiting and inspecting the publishing plant of Kansas Farmer. This week the class, accompanied by Professors Reed and Fitch, were the guests of R. J. Linscott at his Jersey farm near Holton. Mr. Linscott had invited several neighboring Jersey enthusiasts to his farm, and the visit was turned into a Jersey picnic. Mrs. Linscott treated



L. R. McClarnon's Herd Boar That Is Making Good.

Hampshires Sell Well.

S. E. Smith, Hampshire breeder, Lyons, Kan., writes as follows: "Am writing to say Kansas Farmer sure gets the business. Am all sold out of gilts and want my ad changed back to original wording. I have decided to offer for sale one of my best brood sows, Bessie 11982, out of Bessie 9376 and Reno's Boar 4321. Runs back to Col. Stone and Medora Duke blood lines. She is bred to T. R. Fancy for farrow June 28."

Hamaker Visited.

George S. Hamaker, the old-time Poland China breeder located at Pawnee City, Neb., has his usual good lot of spring pigs numbering about 80 and mostly sired by the herd boar, Orange Tecumsch, out of A Look Grand sow. This is, we think, the best boar ever seen on the farm. Others are by Smooth Big Bone 2d and Glant Kins. Mr. Hamaker also has about 30 extra choice fall gilts that he will reserve for his winter bred sow sale.

Garrison Poland Chinas.

A. B. Garrison & Sons, the old-time bigtype Poland China breeders of Summerfield,
Kan., announce a sale for October 24. The
Garrisons have a fine lot of about 90 spring
pigs nearly all sired by Blue Valley Price
by Blue Valley Quality, others by Gold Dust
Metal. A couple of large sows sired by
Colossus have litters by Bell's Long King,
the splendid son of Long King's Equal. This
firm breeds Shorthorns also, and has a herd
of about 50 females headed by My Choice,
a 2,200-pound son of Choice Goods.

the visitors to an elaborate dinner. The Linscott herd is composed of excellent indi-viduals and all are on yearly tests and are making very creditable records.

Kansas Farmer Sells Shorthorns.

We have sold out everything of serviceable age. Nothing older than last of July calves, so you will please cut out our ad for the present. It will probably be some satisfaction to you to know that although we carried a little (not much) outside advertising, our sales which were very satisfactory are all to the credit of Kansas Farmer. We will have a few exceptionally good calves to offer for fall service, also may decide to sell a few females, and will send copy as soon as they are ready.—G. A. LAUDE & SONS, Breeders of Shorthorns, Rose, Kan.

Bred Durce Sews and Gilts.

J. A. Weishra of Dillon, Dickinson County, Kansas, starts a card in this issue offering 30 tried Durce Jersey sows and glits bred for fall farrow. This stock is choice. The sows are among the best on the farm and are splendid and regular breeders. The herd numbers 125 head and must be reduced. The sows were sired mostly by the boar, College Lad, a son of Tatarrax, and the glits by the big 800-pound boar, Kansas Kruger, by Missouri Kruger. The sows are bred to Kansas Kruger and the glits to Isenberg's Choice by Quivera. His dam was by M. & M.'s Colonel. The foundation of this herd was secured from the very best



Graduate Col. 28279. A Champion Sire of Breed and at Head of G. C. Norman Herd at Winfield, Kansas.

Hartman Has Eighteen Boars.

J. J. Hartman, Elmo, in the southern part of Dickinson County, Kansas, is again advertising in our columns. He offers for immediate sale 18 big strong lengthy boars of summer and fall farrow. They are as good as or better than pigs of such age usually are. They were sired by Blue Valley Jr. and Hartman's Hadley, a son of Nox All Hadley, with a few by the previous herd boar, King Elmo. These boars are out of unusually large fine sows. Mr. Hartman has about 30 choice fall gilts that he will run on alfalfa this summer and hold for his bred sow sale January 23.

Arkell Offers Herd Boar.

James Arkell, Poland China breeder, Junction City, Kan., offers his splendid breeding boar, First Quality 60266. This boar was sired by Blue Valley's Quality and his dam was the great breeding sow, Blue Valley Ex by Exception, tracing to Expansion. Full brothers to him are heading the herds of A. B. Garrison, Summerfield, Kan.; W. V. Hoppe, Stella, Neb., and D. C. Lonergan, Florence, Neb. First Quality is one of the best breeding boars ever owned in this state. Mr. Arkell finds it necessary to make a change in order to supply his customers with new breeding, and for this reason offers him fully guaranteed at the low price of \$75. Anyone in need of a good tried sire should write at once.

J. W. Elliott's Shropshires.
J. W. Elliott, Polo, Mo., owner of one of the best flocks of Shropshire sheep in the West, has an extra fine lot of lambs this

herds of this state and Missouri. Mr. Weisha can ship over the Missouri Pacific, Union Pacific, Rock Island or Santa Fe. He guarantees every representation and will take pleasure in selecting something that fills your requirements. When writing him please mention Kansas Farmer.

#### Baldwin's Durocs.

R. W. Baldwin, Conway, Kan., is offering for sale March boars sired by Model Again, Long Lad and Tatarrax Boy. They are priced reasonably too, only \$12. Look up his ad and write him, kindly mentioning Kansas Farmer.

Buy Your Wife a Pair of Good Scissors or Shears or a Sewing Outfit.

Shears or a Sewing Outfit.

You can't work your farm with poor tools—your wife can't do all the sewing, mending and patching for the whole family without good scissors, shears or a sewing outfit. Ask her which she needs in this line and then go ahead and buy her the finest. Keen Kutter scissors, shears and sewing outfits have positively no equal in America. The blades are made of solid sidel and are held firmly together at the joints by a patent nut, bolt and screw, making it impossible for any looseness or play between the blades. The handles are shaped for easy work. Keen Kutter scissors and shears will cut the thickest fabric or snip the tiniest thread. They are made by the Simmons Hardware Company, who authorize their dealers to say this to you: "Buy these scissors or shears—if you do not find them absolutely perfect, return them and get your money back."

SHORTHORN CATTLE

SHORTHORM

SIRED BY DOUBLE CHAMPION AND WHITE MYSTERY, OUT OF MY BEST COWS, PRICED REAS-ONABLE. ED GREEN, HOWARD, KAN.

RED POLLED CATTLE

#### **AULD BROTHERS Red Polled Cattle**

Bull calves for sale. Prices right. Herd headed by Prince, one of the best sons of Actor.

AULD BROS., Frankfort, Kansas.

Coburn Herd of Red Polled Cattle and
Percheron Horses.

25 extra good young bulls and 7 first class young stallions for sale at bargain prices. Also young cows and heifers.

GEO. GROENMILLER & SON,
Pomena, Kansas.

PHILLIPS COUNTY RED POLLS AND POLANDS.

All bulls over six months old sold. Bred sows and heifers for sale, also choice lot of big-type Poland China fall boars. Inspection invited.

Chas. Morrison & Son, Phillipsburg, Kan.

RED POLLS FOR SALE.

In order to reduce the size of herd we offer choice registered cows of large frame and splendid milkers at very low prices considering quality.

RESER & WAGNER, Bigelow, Kan.

JERSEY CATTLE.

#### Register of Merit Jerseys

The only herd in Kansas making and keeping official records. Eighty head to select from. Cows in milk, bred heifers, heifer calves, and the finest lot of young bulls ever on the farm. All ages. Six or eight now ready for service out of cows with official tests up to 512 pounds of butter with first calf, sons of Imp. Oakland Sultan, Gambos Knight, and a son of Golden Fern's Lad. Tuberculin tested and fully guaranteed. R. J. LINSCOTT, Holton, Kansas.

Jersey Calves only \$15 to \$25

From heavy butterfat producing dams. Solid colors. These calves should grow into \$150 dairy stock inside one year. Order today and get choice selection from this big Jersey cattle district. Send all orders or inquiry to

W. R. DRAPER, Owner White River Stock & Fruit Farm, Springdale, Ark.

### BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for

W. N. BANKS, Independence, Kan.

JERSEYS MUST BE SOLD SOON.

Fifty cows, helfers and young bulls, all registered. If this fine lot of cattle is not sold within a short time I will call a public sale.

S. S. SMITH, Clay Center, Kansas.

REGISTERED JERSEY BULL CALVES
FOR SALE.
Nice colors and individuals and closely
related to noted sires and dams. Low
prices for young calves. Also few bred
heifers. Farm near town.
Johnson & Nordstrom, Clay Center, Kan. WINELAND FARM JERSEYS.

One of the strongest official record herds in the west. For sale, 10 choice young bulls, sired by Imp. "Duke's Raleigh," and other good bulls Out of cows now undergoing or naving authenticated tests. Also, 25 females of different ages. H. C. YOUNG, Lincoln, Nebraska.

REGISTERED JERSEYS AND POLANDS Best strains and individuality. Fed and handled intelligently. Stock for sale always. O. E. NICHOLS, Abilene, Kan.

#### OXFORD DOWN SHEEP

Largest flock west of Mississippi River. Fifty rams, 100 ewes for sale. All stock sired by imported rams. 140 ribbons at the lowa State Fair in last eight years. Call on or address, John Graham & Son, Eldora, Is.

OXFORD DOWN SHEEP,
Oxford Down Sheep—Large, hardy, prolific, well covered.
J. H. WALKER, Lathrop, Missouri.

#### OHIO IMPROVED CHESTERS

WOLFE'S O. I. C. SWINE.

Large, prolific kind, March and April
boars. Glits bred or open. Fall pigs. Prices
low. Pedigrees free. Write your wants.
D. W. WOLFE, Route 2, Carrollton, Mo.

#### MAPLE LEAF CHESTERS

Large, smooth and prolific. Our stock and prices are right. Write us your wants. Satisfaction guaranteed. R. W. GAGE, Garnett, Kansas.

#### **MULE FOOT HOGS**

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