

KANSAS FARMER

For the improvement

of the Farm and Home

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SEED TESTING IMPORTANT

School Children Can Do This Work For Farms of District

S EED for spring planting is unusually scarce this season. The corn and kafir grown last year and now being offered for sale is poor in vitality and weak in germination. Old seed is testing better than last year's seed, but there is not enough of this on hand, so 1916 seed must be used.

It is more than ordinarily important to test seed this year. The fore-handed way is to test all seed for spring planting, during the winter, but few do this.

Many samples of seeds are being sent to the department of botany of the agricultural college for testing, and the tests show the seed to be so poor in germination that a systematic effort is being made to get the facts before the people most interested. G. E. Thompson of the extension division is calling the attention of every farmers' institute officer in the state to the importance of a seed testing campaign. He is urging the co-operation of the public schools and has sent a letter to every county superintendent in the state, suggesting the feasibility of having the children in the schools do the seed testing work for their home neighborhoods. Commercial clubs and other organizations wishing to help in this work might offer prizes for the school testing the most seed for the farms of the district. This would be splendid work for the children and besides its educational value would be of immediate practical use to the neighborhood.

There is little time left for doing this work and the campaign should start without delay. Mr. Thompson is urging that the last week in March and the first two weeks in April be devoted to seed testing all over the state. This is an important campaign and especially so if it can be conducted through the agency of the schools. The value of the lessons that would be learned by the children can hardly be estimated.

There can be little doubt as to the need of such campaign of seed testing. Seed sent to the agricultural college for testing during the last two months has varied from 1 per cent to 100 per cent in germination. No kafir or sorghum seed has been

received that tested over 96 per cent in germination. Forty per cent of the kafir received tested under 80 per cent in germination and 23 per cent showed less than 50 per cent in germination.

The condition of other sorghums is not as good as that of kafir. The average test of all sorghums received, other than kafir, shows only 70 per cent in germination. Of these only 11 per cent showed a germination of 80, and 40 per cent were under 50.

The seed of kafir and other sorghums, to be satisfactory for planting, should germinate at least 80 per cent and ought to germinate 90 per cent.

Because of this poor condition of seed it is imperative that it be tested before planting. Otherwise, there will be many poor stands in the state and poor yields.

Experiments in Iowa in 1910 and 1911 showed increased yields of 19.6 bushels in 1910 and 10.1 bushels in 1911 as a result of testing the seed corn before planting. Kansas plants an average of over seven million acres of corn each year. If an increase of ten bushels per acre could be secured it would mean seventy million bushels of corn to the state, or, at present prices, just as many dollars. If only half of this increase could be secured, it would still mean thirty-five million bushels, and that is more than one-fourth of the average corn yield of the state.

Just as great an increase can be secured from kafir and the other sorghums by planting good seed as can be secured from corn.

It is important that you test your seed this spring. Poor seed is worse than no seed, because it not only costs you time and labor without giving profitable returns, but it costs you the use of your land as well.

The rag doll seed tester can be used for germination tests. A rag doll seed tester can be made from sheeting of good quality torn into strips eight to ten inches wide and three to six feet long. Two rows of squares about three inches in size should be marked off in the middle of each strip. There should be enough cloth on each side of the squares to fold

over and cover them after the seed is placed. Spread the cloth out on a table, or board, mark it properly, numbering the squares, wet it thoroughly, and fill the squares with the seed as follows:

Six kernels should be taken from ear No. 1 and placed in square No. 1; six kernels taken from ear No. 2 and placed in square No. 2, and so on. The ears must be laid out on a board or on the floor and

removing the kernels from the ear to be tested test to take two kernels about one-third of the distance back from the tip of the ear; two from the middle of the ear, and two from the butt of the ear and on the opposite side from that on which the tip kernels were removed.

Kafir or sorghum heads can be tested the same as ears of corn except that ten kernels should be used instead of six.

When the tester is filled, fold the edges back over the seed and roll the tester up. Place it in a bucket with a loose-fitting lid to prevent excessive drying, yet allowing ventilation, and keep in a moderately warm room—living room temperature—for five to six days. If the work is done in school rooms it will probably be necessary to take the pail filled with the testers to some near-by home where it can be placed near the kitchen stove. The school room might get too cold during the night.

At the end of five to six days the germinator will be ready to examine.

The best ears will show all six kernels having a strong sprout. If seed is scarce, some of the better ears having five of the six kernels sprouted may be saved.

All ears showing less than five strong sprouts should be discarded.

If five of the six kernels show a strong sprout it means a germination of 83 per cent.

Since the ears or heads were numbered, each can be identified with its proper number in the tester. In testing seed from a number of farms, care should be taken to keep the seed from getting mixed.



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CORN NO LONGER KING

By G. E. THOMPSON, Extension Division, K. S. A. C.

FOR the past ten years the sorghum crops considered as a group have been more profitable, acre for acre, in Kansas than has corn. This in spite of the fact that the sorghums are seldom given an equal chance with corn. In the eastern half of Kansas the difference in favor of the sorghums amounts to more than \$2 an acre.

SORGHUMS ADAPTED TO DRY WEATHER

There are a number of very essential differences between the sorghum and corn plants which result in the sorghums being more resistant to dry weather and better adapted to western conditions than corn. Corn is a native of Central America where conditions are almost semi-tropical and the rainfall heavy, while practically every sorghum now grown within the state is a native either of Asia or Africa and most of them are natives of the portions of those countries where the growing season is either quite dry or subject to a dry spell at some time during the growing period. Corn requires more pounds of water to produce a pound of dry material than is required by the ordinary sorghums to produce a pound of dry material. The sorghums, as a crop, have the ability to stand and wait for rain and when favorable conditions come again, go ahead and complete their growth, while corn under the same conditions is seriously injured and is less able to recover after having been injured. In the first three feet of soil where both the corn and sorghum plants do most of their feeding, although the primary roots are about the same in number, kafir, milo, or the sweet sorghums have practically twice as many small fibrous or feeding roots as the corn plant. This probably means two things: First, that the sorghums have more ability to get any moisture from a dry soil that may be within the soil; and, second, they are probably able to more completely extract and use plant food from a dry soil than is corn.

Since all of Western Kansas, and in fact most of Kansas, is subject to a dry spell at some time during the growing season, these differences between the corn and sorghum plants make the sorghums naturally better adapted to Kansas conditions than is corn.

SORGHUMS COMPETE IN MARKETS

In the last two years there has been an important change in the market conditions as regards corn when compared to kafir and milo. Formerly corn has always outsold the grain sorghums and farmers who grew these sorghums were compelled to feed them out on their own farms or else take a lower price for them than it would have been possible for them to secure for corn. This condition is now changed. Since the early fall of 1916, kafir and milo have continuously sold on the Kansas City and Chicago markets for a higher price than corn. The difference at the present time—March 15, 1917—is not far from 65 cents per hundred pounds in favor of kafir or milo as compared with corn. This means that kafir and milo are now cash crops or marketable crops and can be profitably grown as such. This change in market conditions should result in a large increase in the acreage of kafir and milo this year in Western Kansas and a decrease in the acreage of corn.

Growers of kafir and the other sorghums hope that the relative price between corn and kafir or milo will be more equal in the future than it has been in years past because of the fact that at present considerable quantities of these grain sorghums are being used in the manufacture of breakfast foods, also large quantities are consumed in the manufacture of commercial poultry foods and particularly in the last eighteen months it is stated that enormous quantities have been used in the manu-

facture of alcohol. These three uses on a large commercial scale should be considered by the farmers of Western Kansas and similar territory when they arrange their crop areas in the spring of 1917.

VARIETIES TO PLANT

The exact variety of sorghum that should be grown by any farmer will depend upon his particular location and the purpose for which the crop is grown. Of the grain sorghums in Western Kansas, milo is undoubtedly the surest, and the dwarf yellow is probably the best variety. Of the kafirs, in the extreme western part of the state dwarf kafir is well adapted, but it does not make very much fodder and for that reason is not liked by many farmers. The pink kafir, sometimes called white-hulled, is the next surest variety. It makes a good crop of grain in an average season provided it is given good care and as it matures from a week to ten days sooner than the standard black-hulled kafir, it is a much more certain crop than the standard. A majority of the farmers of Western Kansas who have grown kafir and who make the statement that it cannot be matured under these conditions, have grown the standard black-hulled kafir instead of the pink or the dwarf kafir.

Feterita is of only moderate importance in Central and Northwest Kansas, but in Southwest Kansas, particularly on the sandy ground, it will prove a first class crop in dry years. In the normal or exceedingly good years kafir or milo will outyield it.

Under average farm conditions the best variety of sweet sorghum for forage in Western Kansas is red amber. It has an average of nine to ten leaves on each stalk, while black amber has an average of only about seven or eight leaves. It is just as sweet and just as juicy as the black amber and the shell or covering on the outside of the stem is not quite as coarse and fibrous as the shell on the black amber. Moreover, the stalks of the red amber are a little stiffer and stand up better than the black amber. Furthermore, the red amber does not volunteer in fields and become a pest as does the black amber, commonly called black cane.

If an extremely quick maturing variety of sweet sorghum is desired, Freed's Sorgo will mature quicker than black amber, has the same number of leaves, and is just as sweet, although possibly not quite as juicy. The seed of Freed's Sorgo contains less tannic acid than the seed of most other sweet sorghums and it is therefore better liked by live stock.

Over practically all of the eastern two-thirds of Kansas the Kansas Orange sorghum is the heaviest producing and best variety to grow for forage purposes. This variety has an average of eleven to twelve or even more leaves per stalk, is very sweet and juicy and produces excellent feed. It requires an average of about one week longer for maturing than is required by the red amber.

Over practically all of the eastern two-thirds of the state the standard black-hulled kafir is the best variety of kafir to grow. In a normal year this variety will produce more bushels of grain than any other variety that can be planted.

It is practically useless to plant milo in that portion of the state where chinch bugs are bad, as the chinch bugs are very fond of milo and are almost certain to destroy it.

Seed this spring is extremely poor in quality and low in germination. It will pay everyone to run a germination test before planting. Make a "rag doll seed tester" and use it, and know that your seed is good before you plant it.

Join the statewide seed testing campaign, March 26 to April 14, and do your share to bring increased yields to Kansas.

Acre Value Kafir and Milo Compared With Corn

	KAFIR AND MILO ACREAGE	ACRE VALUE	CORN ACREAGE	ACRE VALUE	GREATER VALUE SORGHUMS
1901-1913					
State	10,703,913	\$11.23	91,635,224	\$8.76	\$2.47
East half	5,139,566	12.39	60,497,155	9.57	2.82
West half	5,564,347	10.14	31,138,069	7.20	2.94
West third	2,786,103	9.24	9,106,819	4.73	4.51

—From "Sorghums: Sure Money Crops," page 107.

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FOODSTUFFS SITUATION

The prices of foodstuffs are unusually high and no one seems to know exactly the cause. The knowledge we have as to methods of food distribution and storage is not at present sufficient to permit a satisfactory explanation. What we want to know is where the food supply is located at the present time, who owns it, what are the difficulties of getting at it, whether market conditions are the result of car shortage, and to what extent artificial manipulation and control are responsible for existing conditions.

These facts are pointed out in a rather lengthy statement recently issued by Secretary of Agriculture D. F. Houston. He urges the importance of the investigation President Wilson has directed the Federal Trade Commission and the Department of Agriculture to make. Perhaps this investigation cannot bring immediate relief, but the sooner we can have the facts on these points, the better.

The position of the farmer is much misunderstood by people having to purchase all their food supplies. There seems to be a tendency to charge the farmers of the country with "holding up" the consumers, and many seem to think that increasing agricultural production will solve the problem. Secretary Houston calls attention to the fact that the belligerents in Europe in dealing with their food situation, serious as it has been, have accomplished their purposes mainly through conservation of foods, regulation of diet, and the prevention of waste, instead of attempting to control production and distribution by any sort of dictatorship. Only just recently has England made any attempt to deal directly with production, and in so doing has recognized that it is essential to guarantee to farmers a reasonable minimum price for a period of years where they are asked to increase their production of some particular crop.

Farmers are governed by the same thinking and the same motives as are other people. This was pointed out by President Waters of the agricultural college, W. M. Jardine, director of the Kansas Experiment Station, and Secretary Mohler of the Board of Agriculture, at the recent food conference held in Topeka. They are fully as patriotic as any other class. They cannot be expected, however, to greatly increase their output unless they are reasonably sure that it will be profitable for them to do so. One might just as well expect a shoe manufacturer to double his production without being reasonably sure that it would be profitable to do so, as to expect farmers to increase production without a knowledge of the outcome.

There is no real reason to believe that a shortage of food exists in this country. In most products the 1916 yields were equal to or above a five-year average. It is true that the world over the crops of last year were not equal to those of the year before. In this country the two products showing a marked decrease are wheat and potatoes. Some facts in the wheat situation, however, have been overlooked. While the 1916 yield—which was reported as 640 million bushels—is below a five-year average, we are comparing it with the unusually large production of 1915, 104 million bushels of which were carried over into this year.

The normal export of wheat is 105 million bushels a year. The year before the war the amount exported was 145 million bushels. During the first two years of the war this amount was greatly increased. In spite of these large exports, however, the supply in this country, including the carry-over of last year, exceeded 800 million bushels, and up to January only 97 million had been exported, and the amount is decreasing.

While the high price of food is becoming most serious in the cities and especially so to the families of wage earners, it is evidently not a condition for which the producer is responsible.

GARDENS WILL SAVE MONEY

The only suggestions offered at the recent food conference for immediate relief from high food prices

were to grow all the garden stuff possible and to hold the laying hens, giving them good feed and care. Too many are rushing hens to market on account of the high prices, just at a time when they would lay a lot of eggs. We would refer our readers to other pages of this issue where they will find helpful articles on these points.

We cannot expect to plant a garden in poorly prepared soil or soil lacking in fertility and gather good crops of vegetables. We hope many made the garden plans last fall and winter and are now ready to secure maximum returns. KANSAS FARMER printed an article in December emphasizing the necessity for this planning in advance for the garden. As a help to this work we printed the table which we are again giving this week. This gives a succession of vegetables for the whole season, names the right varieties and indicates the planting and cultural methods that have been successful. It is not a theoretical table but gives the results of careful garden work done at the Kansas Experiment Station, Manhattan.

Owing to the shortage of labor on the farms for regular field work, the boys and girls might well assume the responsibility of doing the garden work to a greater extent than they have heretofore done.

KANSAS DOING HER PART

At the food conference held in Topeka last week, J. C. Mohler, secretary of the State Board of Agriculture, told of what Kansas is doing in the supplying of food products. In 1914 this state contributed to the nation's storehouse one-fifth of all the wheat grown, and in 1916 between one-sixth and one-seventh of the whole wheat production of the country. The total for the past three years was 381 million bushels—a surplus over and above home consumption requirements of 326 million bushels.

Last fall one-fifth of the total wheat acreage of the country was sown in Kansas. A million acres of this could be plowed up as a result of winter-killing and still leave a chance for a yield equal to or greater than our annual average production.

Secretary Mohler believes the Kansas farmer is doing his part. He closed his remarks with the following:

"For my part, I have complete confidence in the Kansas farmer and his judgment. We cannot ask him to overturn his plan of farm management. He knows what is best adapted to his soils and system of farming. He knows what to plant and how much, when to plant and how to plant it. When he best serves his own interests he best serves the interests of others. Self-interest is enough inducement for the farmer to produce the maximum of which he is capable. But, he should not trust all his eggs in one basket. The situation does not demand that he take that chance. The agricultural balance of diversified farming for which we have been systematically striving must not be disturbed. Otherwise a long set-back is inevitable. While it may be wise to plant a somewhat increased acreage in certain crops, there should be no hysterical effort to overturn present plans. Rather, the crops should be planted better and tended better, if anything. The use of seed that the farmer knows will grow before it is planted is vitally important. But then, there is nothing new in these things; they are true every year. After all, what the farmer needs is not so much counsel and advice, but rain. Let him have rain, at timely intervals and in sufficient quantities, and those who are looking to him to fill their larders will not look in vain."

There were a few real farmers present at the food conference. Some of these expressed their views as to the causes of high food prices. Their way of looking at things is well illustrated by the statement of a Shawnee County farmer who sells milk at fourteen cents a gallon wholesale. He said he thought something was vitally wrong when the concern to which he sells his milk could retail it for forty cents a gallon and pay him only fourteen cents. In other words, the feeling seemed to exist that there is some-

thing fundamentally wrong with our system of marketing and distributing food products of all kinds. This was recognized in the report of the resolutions committee, which was headed by E. L. Barrier of Topeka, one of the "Simon-pure" farmers in attendance. Other farmers on this committee were Walter J. Burtis of Fredonia, Rodney Elward of Gastleton, Frank Rude of North Topeka, and Lacey Simpson of McPherson. Others on the committee were President Waters, Dean Jardine, and Alfred Docking of the State Grange. The report of this committee appears on another page of this issue.

YOU SHOULD SIGN YOUR LETTERS

We have just received a request to reprint in KANSAS FARMER a recipe for curing pork which appeared some weeks ago. This request was signed with initials only. This recipe is not now timely and for that reason we do not feel justified in reprinting it. However, had this reader signed his full name, it would have been an easy matter for us to have mailed him a copy of the paper which contained this recipe.

All letters of inquiry and request should be signed with the full name. This does not mean that we want to use these names, but when a letter is signed we know it is bona fide and it will have our careful attention.

The Missouri State Board of Agriculture is boasting that in 1916 its state with 175,000 fewer acres in corn than Kansas had, grew 62½ million bushels more corn. Last year was an exceptionally bad year for corn in Kansas, but the fact remains that corn is planted on thousands of acres in sections where the grain sorghums would be almost sure to produce paying crops while corn is largely a gamble except as fodder. Why not farm according to our conditions and grow the crops that are reasonably sure? Kansas can compete with Missouri agriculturally, but we must do it in the Kansas way.

Labor might be said to be the limiting factor in the farming business. It has been the practice of KANSAS FARMER to run free of charge, for two weeks, twenty-five word classified advertisements for bona fide seekers of employment on farms. Most of these ads are keyed, the replies being sent to KANSAS FARMER office. Scores of replies come in response to every such ad inserted. Some answer by long distance telephone, asking that the parties be sent out at once. Most of those who reply want help the year around. All this goes to show the great scarcity of labor on the farms. No one who is willing and able to work on a farm need spend much time in looking for a job.

The county agricultural agent work in Kansas is rapidly increasing in popularity. By July 1 there will probably be twenty-one counties organized, with men at work. Shawnee is the latest county to organize a farm bureau. A group of representative farmers met in the rooms of the Chamber of Commerce, Topeka, March 10, adapted a constitution and elected officers. This brings the total number of organized counties up to twenty-four. More than the usual interest centers around the Shawnee County organization because of the fact that here is located the capital of the state. People from all parts of the state, as well as those from outside, visit the capital. The effort that will be made to improve the farming business of this county through the co-operative work of the members of the farm bureau will be far-reaching in its effect. The first step in getting the work started will be the raising of the initial fund of \$800 which is required to furnish the necessary equipment for the agent who will later be employed. The members each pay a fee of \$1 a year, and money is appropriated by the state, the federal government and the county. It costs about \$3,000 a year to conduct a farm bureau, and in every county where the work has been started the verdict is that it is money well spent.

GARDEN SAVES MONEY

Reduce Food Expense by Growing Plenty of Fruit and Vegetables

IT WILL pay and pay well to have a good home garden this year. A good garden is the quickest and best means of cutting down the expense of keeping the family supplied with food. Present food prices are high and it will take months to produce a surplus. By planting a carefully planned garden and giving it good care, a great deal can be done in a short time to reduce the amount of money being paid out for food. Fresh vegetables can be substituted for canned goods purchased at the stores and even take the place of some of the high-priced staples.

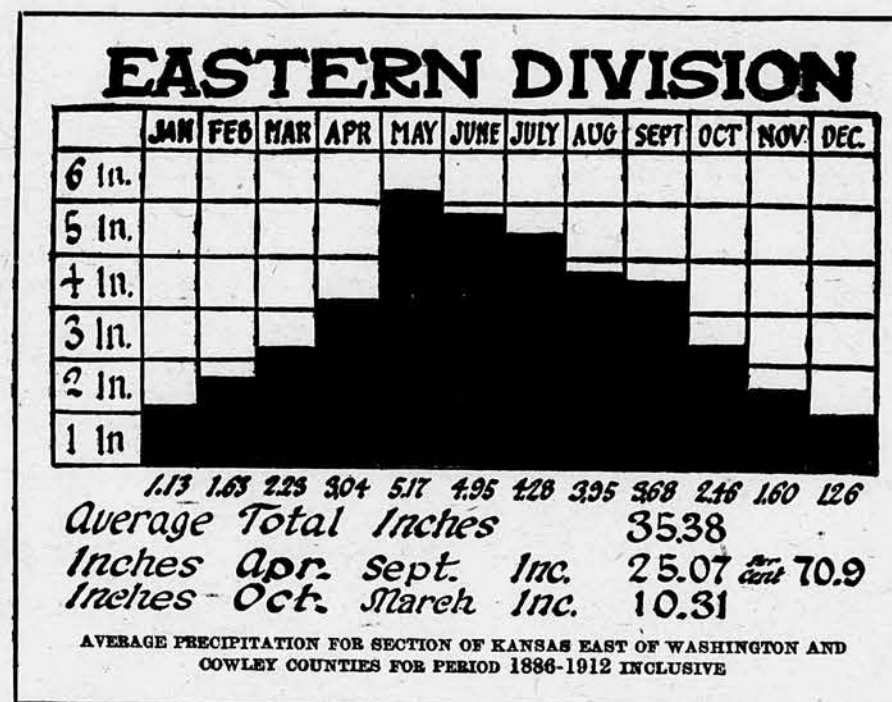
M. F. Ahearn, assistant professor of horticulture at the agricultural college, said recently that he believed a half acre of garden crops carefully tended would yield the family from \$75 to \$100 worth of vegetables. This is certainly a very conservative estimate.

In addition to helping out the food supply, having a good garden means that the housewife will be able to secure on short notice the various vegetables, perfectly fresh and possessing all their characteristic flavors and full food values. Vegetables that town people buy have been exposed for hours and sometimes even days before reaching the consumer and are much inferior to the same products gathered in the garden, taken directly to the kitchen and prepared for the table.

The garden should have been carefully prepared last fall or winter. Many undoubtedly did plow the ground and now have the soil in ideal condition for planting the various vegetables. If possible, the garden should be located close to the house, on fertile, well drained, sandy loam soil. On some farms it is the practice to have the garden some distance from the house in order to have it away from the chickens. This, however, is a great inconvenience to the women and undoubtedly the greatest use will not be made of a garden so located. It is a far better plan to have the garden conveniently located and protected by a good chicken-tight fence.

Some thought should be given to arranging the crops in the garden. Ordinarily the long season crops can be conveniently grouped together on one side, and the short season crops similarly grouped. Where the garden can be worked with horse machinery it should be arranged with rows as long as possible with room for turning at the ends. If the work is to be done by hand, the rows can be closer together. Professional gardeners make great use of wheeled tools that are propelled by hand. These implements could well be used more on the farm garden. Some of the simpler types are inexpensive and perform the necessary cultivation work much more easily than where the old-fashioned tools are used.

Seeds for the garden should be ordered well in advance of the time of planting. By doing this, some care can be given to selecting seeds of varieties which are best adapted to particular localities. Advertisements of reliable



seed companies will be found in KANSAS FARMER. Write a postal card or letter asking for catalogs. These will be helpful in making selections. It is impossible to have good vegetables without the use of good seed. For this reason it is especially important that seeds of good varieties be purchased.

We print on this page a table showing the results of some test work done on varieties at the Kansas Experiment Station. These varieties of the different kinds of vegetables will do well under average Kansas conditions. Valuable planting information is also given in this same table.

Boys and girls can help out a great deal in the garden work. It requires persistent effort to succeed with the garden, but this is true of almost everything. It is not all play, by any means, to put out a garden and care for it properly, but there is a world of satisfaction in being able to do something that helps to save some of the expense of buying food for the table. Boys and girls all over the state have been doing fine garden work in the garden clubs and this year it will mean even more than ordinarily to have plenty of vegetables of all kinds, and for this reason many more should take part in helping out with the garden work.

Home canning of vegetables is so simple as has been shown by the work of the Glenwood Canning Club, that many will want to plan a garden that will provide some surplus for canning. This will make it possible to have the garden help out in supplying the table throughout the year. Kansas garden club work has grown so popular that several assistants will work in the field this year

under the direction of Otis E. Hall, state club leader. In a great many communities there will be opportunity to learn more about growing vegetables and especially how to can them successfully.

The following varieties are those best suited to Kansas conditions:

Bunch Beans—Field's First Early, Improved Golden Wax, Stringless Green Pod; pole beans—Missouri Wonder, Kentucky Wonder, Lazy Wife.

Beets—Early Egyptian, Detroit Dark Red, Blood Turnip.

Cabbage—Early Jersey Wakefield, Danish Ballhead, Copenhagen.

Lettuce—Black Seeded Simpson, Big Boston, Grand Rapids.

Musk Melons—Honey Dew, Field's Daisy, Rocky Ford.

Onions—Prize Taker, Red Wethersfield, Danver's Globe (red, white and yellow).

Peas—Alaska, Prosperity, Little Marvel, Nott's Excelsior.

Radishes—Non Plus Ultra, Icicle White Tip, White Strassburg.

Squash—White Bush, Summer Crookneck, Delicious, Hubbard.

Sweet Corn—Golden Bantam, Country Gentleman, Stowell's Evergreen.

Tomatoes—Earliana, Landreth, Chalk's Early Jewel, Trucker's Favorite.

Carrots—Oxheart, Danver's Half Long, Coreless.

Celery—White Plume, Golden Self-Blanching, Winter Queen.

Cucumbers—Emerald, White Spine, Long Green.

Potatoes—Six Weeks, Early Ohio, Early Rise, Irish Cobbler, Late Rural New Yorker, Vermont Gold Coin.

Pumpkin—Small Sugar, Large Cheese, Big Tom.

Turnips—Snowball, White Globe, Flat Dutch.

Watermelons—Cole's Early, Tom Watson, Halbert Honey, Keckley Sweet.

The names in each list are given in the order of earliness rather than quality. Remember this in making your selection. Sometimes it is very important to have the very earliest variety possible.

In growing gardens, rainfall is important. The cultivation given frequently has for its chief purpose the saving of soil moisture. The two charts shown last week and the one in this issue show how much rain is likely to fall during the growing months in different sections of the state. The methods of cultivation will necessarily have to be modified to fit the moisture condition. In the regions of light rainfall the sure way to have a good garden is to provide a supply of water for irrigation. No farm in Western Kansas should be without its garden irrigation plant. The simplest form is a windmill pump with a reservoir for storing a reserve supply of water. The investment in such a plant will be most profitable even though irrigation for general field crops would not pay.

Results of Club Work

Eighty-five Kansas boys and girls won prizes in the club contests of 1916 of the Kansas Agricultural College and the Federal Department of Agriculture, under the leadership of Otis E. Hall of the agricultural college. Two of these prizes were fifty cents each, and the balance were \$1, \$2, \$3, \$4, \$5, \$7.50, and \$10. These prizes were won on corn, kafir, feterita, milo, wheat, potatoes, sewing, bread-baking, canned fruits and vegetables, records and stories of work done in tomato clubs, poultry clubs, square-rod garden clubs and pig clubs.

The prizes won by these boys and girls stand for only a small part of the benefits derived by them from the club work. And these eighty-five boys and girls represent only a small part of the number who were benefited by these clubs, for whether a prize was won or not, the work was interesting and the children felt their responsibility in it, which will be of far more value than the prizes awarded.

Because of this development of business ability in the child and the fact that it turns excess energy into safe channels, the boys' and girls' club work is one of the most helpful influences at work in our state today. Its value will be appreciated more in a few years than now because it will bear good fruit in the lives it has touched. Many of these boys and girls will be our best farmers and housewives because of the early serious thought and application put into the club work which will have led them in a search for further training and knowledge.

Order a few ever-bearing strawberries to furnish fruit this fall.

VEGETABLE	Variety in order of production	Date of setting or planting	Amount of seed	Average price of seed	Depth of planting	Distance between rows	Distance apart in row	First picking	Last picking	Yield to 100 feet
Beans	Stringless Green Pod	May 10	1 pt. to 50 feet	1 qt., 30c	2 to 3 inches	3 feet	6 inches	June 27	July 18	48 qts.
	Bush Lima	May 10	1 pt. to 50 feet	1 qt., 25c	2 to 3 inches	3 feet	6 inches	June 27	July 18	46 qts.
Beets	Crosby's Egyptian	April 6	1 oz. to 50 feet	1 oz., 20c	1/2 inch	12 to 18 in.	2 to 4 inches	June 11	Sept. 11	450 lbs.
Cabbage	Premium Flat Dutch	April 24	1 oz. to 1,500 plants	1 oz., 20c	1/2 inch	3 feet	2 feet	June 27	July 21	41 heads, 54 lbs.
	Early Jersey Wakefield	April 24	1 oz. to 1,500 plants	1 oz., 30c	1/2 inch	3 feet	2 feet	June 27	July 21	45 heads, 52 lbs.
Carrots	Early Chantenay	April 1	1 oz. to 100 feet	1 oz., 25c	1/2 inch	14 to 18 in.	2 to 4 inches	July 20	Nov. 1	240 lbs.
	Half Long Danvers	April 1	1 oz. to 100 feet	1 oz., 25c	1/2 inch	14 to 18 in.	3 to 5 inches	Aug. 10	Nov. 4	120 lbs.
Celery	Giant White Pascal	July 13	1 oz. to 3,000 plants	1 oz., 20c	1/2 inch	3 to 4 feet	6 inches	Sept. 28	180 heads	
	White Plume	July 13	1 oz. to 3,000 plants	1 oz., 20c	1/2 inch	3 to 4 feet	6 inches	Sept. 15	220 heads	
Cucumbers	Arlington White Spine	May 8	1 oz. to 50 hills	1 oz., 20c	1/2 inch	4 to 6 feet	4 to 6 feet	July 25	Sept. 20	1799, 150 lbs.
Lettuce	Black Seeded Simpson	April 12	1 oz. to 150 feet	1 oz., 15c	1/2 inch	14 inches	3 to 4 inches	May 28	264 lbs.	
	Improved Hanson	April 12	1 oz. to 1,000 plants	1 oz., 15c	1/2 inch	14 inches	3 to 4 inches	June 1	244 lbs.	
Onions	Giant Gibraltar	April 12	1 oz. to 100 feet	1 oz., 15c	1/2 inch	12 inches	3 to 4 inches	Aug. 22	28 lbs.	
	Prizetaker	April 12	1 oz. to 100 feet	1 oz., 15c	1/2 inch	12 inches	3 to 4 inches	Aug. 22	21 lbs.	
Parsnips	Hollow Crown	April 12	1 oz. to 200 feet	1 oz., 15c	1/2 to 1 inch	18 inches	2 to 4 inches	Oct. 9	56 lbs.	
Peas	Nott's Excelsior	April 12	1 qt. to 100 feet	1 qt., 40c	3 inches	3 to 3 1/2 feet	1 to 2 inches	June 8	July 19	21 lbs.
	Gradus	April 12	1 qt. to 100 feet	1 qt., 60c	3 to 4 inches	3 1/2 feet	1 to 2 inches	June 8	July 19	20 lbs.
Radishes	Early Scarlet Turnip	March 22	1 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	14 inches	1 to 2 inches	May 1	May 20	8077 roots
	White Strassburg	April 10	1 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	14 inches	1 to 2 inches	May 20	June 1	8607 roots
Salsify	M. Sandwich Island	April 25	1 oz. to 70 feet	1 oz., 10c	1/2 to 1 inch	18 inches	2 to 4 inches	Sept. 4	50 lbs.	
Squash	Victoria	March 25	1 oz. to 100 feet	1 oz., 10c	1 to 2 inches	12 to 18 in.	2 inches	May 11	June 17	75 lbs.
	Summer Crookneck	May 16	1 oz. to 20 hills, or 8 to 12 seeds per hill	1 oz., 15c	1 to 2 inches	7 to 8 feet	7 to 8 feet	Aug. 7	13 squash, 39 lbs.	
	Hubbard	June 20	12 seeds per hill	1 oz., 15c	1 to 2 inches	10 to 12 feet	10 to 12 feet	Sept. 2	9 squash, 85 lbs.	
Sweet Corn	Mammoth White Cory	April 20	1 qt. to 200 hills, or 1/4 qt. to 100 feet	1 qt., 25c	2 inches	3 feet	2 1/2 to 3 feet	June 23	July 16	91 lbs.
	Stowell's Evergreen	April 20	1/4 qt. to 100 feet	1 qt., 30c	2 inches	3 feet	2 1/2 to 3 feet	June 23	July 16	87 lbs.
Tomatoes	Earliana	May 12	1 oz. to 1,500 plants	1 oz., 30c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	420 lbs.
	Stone	May 12	1 oz. to 1,500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	405 lbs.
	Dwarf Champion	May 12	1 oz. to 1,500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	217 lbs.
	Trucker's Favorite	May 12	1 oz. to 1,500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	230 lbs.
Turnips	Early White Milan	July 3	1/2 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	18 inches	6 inches	Aug. 15	Oct. 1	150 lbs.

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In the larger cities there has never been any difficulty for motorists to obtain quick and efficient service for tire repairing. Many tires that otherwise would have been junked early in their lives have been rebuilt and the life of the tire increased from twenty to fifty per cent. This is not true in the country or in small towns of the West. There are very few experienced tire repair men located in the small towns; consequently a motorist must either send his tires to some large city for repairs or else sell them for junk many weeks before the tires are completely worn out. There are hundreds of towns right in your own state where more than \$3,000 is being spent yearly for tire repairs. *This money will go to the man who knows.*

Here's The Greatest Opportunity You Will Ever Have, To Get Into Business For Yourself. Will You Take Advantage of It?

The repairing of tires has developed during the past few years from makeshift temporary work to a scientific and dependable operation requiring not only skill, but familiarity with the handling of rubber; its peculiarities; the relation of fabric to rubber; the means of uniting these materials by liquid rubber or cement and the proper vulcanization of the whole.

Don't Be a Wage Slave Another Day! Take your place in the world as a man among men — a Business Builder—you have good common sense, you have health, and now you have the opportunity.

Our course is practical from start to finish and has been so carefully figured out that you can learn in six weeks what it would take you months, possibly years, to acquire in a factory by actual experience. Our equipment is the same as that used in the large eastern tire factories and you learn not only to repair and rebuild casings and tubes in every conceivable condition, but to make new tires as well. You do the active work yourself. Always under the supervision of experienced men who have spent a lifetime in the business.

If you are tired of working for others, if you are determined to strike out for yourself and make the big money you are entitled to, the TIRE REPAIR business is your golden chance for independence.

You cannot learn tire repairing from books. You must have actual experience. Tires are the greatest expense a car owner has and every car owner wants his tires to give the most mileage possible, yet thousands of casings are scrapped every day because there is no one on the ground competent to repair them.

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DAIRY CLUB

Verify Your Records

MOST of your records are neat and accurate, but there are still a few who do not make up the records as carefully as they should. You know these records and the story you write about your Dairy Club work are going to count for twenty points in your grade and we are anxious to have you get the full twenty points, is the reason we are asking you to do this work carefully.

The making of these records is only an exercise in writing and simple arithmetic and all of you can send in perfect records every month if you will try hard enough. Take plenty of time to do this work so that your figures will be plain. Then when you have finished copying the records, check the figures with those on the sheet from which you copied, to see that no mistakes were made. When you have added the columns and figured the amount of butter fat and feed, you should go over your figures the second time and know they are correct.

You should think of the making of these records as a part of your school work. They give you a chance to use some of the knowledge gained in school and anything that does this is valuable and deserves your best effort. No matter how much you learn at school, if you do not apply it to the doing of things outside of school it will be of little value to you.

Even though you have sent in your February records, go over the figures on the copy you kept and see if they are correct. If you find mistakes, correct them, and when making your March reports be more careful in these places.

And if you have not yet sent in your February records, send these to us by the next mail without waiting for us to write you again about them.

Did Your Milk Score Eighty?

We have decided to allow the full twenty points for quality of product to those club members whose milk samples sent to the state contest at Manhattan scored 80 or higher.

Those whose samples scored below 80 will be given another opportunity to send in samples for quality marking. We offer this second chance because many did not know the requirements for making good milk scores.

Those of you who yet have your quality grade to make should begin now to plan for getting the best possible grade on this point. You should study the article in the March 10 issue of KANSAS FARMER, explaining the score card, and we will have other articles that will help you to improve the milk quality. Several of the bulletins mentioned in the Dairy Club Department last week will be of great help to you in improving the quality of your milk.

As we are going to give the rest of you some special help before asking you to send in your samples to be graded for quality, you will have an opportunity to send only one sample and you should do your best to have that sample of high quality so you will receive the full twenty points, which will help much in your final grade.

Please Send Your Score Card

Those of you who sent milk to the state contest were asked to mail us your score cards received from the agricultural college, with your February records. Twenty-one of you were in the contest, but at this writing we have received only twelve of the score cards. We had a purpose in mind in writing for these and hope-if you have not already sent your card that you will do so at once.

Dairy Club Prizes

The following prizes are offered for work in the Kansas Farmer Dairy Club: Beatrice Creamery Company, hinge-door silo.

R. J. Linscott, Holton, Kansas, pure-bred Jersey bull calf.

Empire Cream Separator Company, cream separator.

Beatrice Creamery Company, cream separator.

Hinman Milking Machine Company, two-unit milking machine.

Hunt-Helm-Ferris Company, complete cow stall.

N. A. Kennedy Supply Company, twelve-bottle Babcock milk tester.

Another Note Paid

I am proud to say that I went to Leavenworth March 6 and made a pay-

Canada Offers 160 Acres Land Free to Farm Hands

Bonus of Western Canada Land to Men Who Assist in Maintaining Needed Grain Production.

The Demand for Farm Labor in Canada is Great. As an inducement to secure the necessary help at once, Canada will give one hundred and sixty acres of land free as a homestead and allow the time of the farm laborer, who has filed on the land, to apply as residence duties, the same as if he actually had lived on it. Another special concession is the reduction of one year in the time to complete duties. Two years instead of three as heretofore but only to men working on the farms for at least six months in 1917. This appeal for farm help is in no way connected with enlistment for military service but solely to increase agricultural output. A wonderful opportunity to secure a farm and draw good wages at the same time. Canadian Government will pay all fare over one cent per mile from St. Paul and Duluth to Canadian destinations. Information as to low railway rates may be had on application to

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Watch the hotbeds carefully on bright warm mornings. It does not take long for the heat to run up high enough to injure the plants. Stocky plants can be obtained only by giving the best of attention to watering and ventilation.

ment of sixty-nine cents on Girlie, which was the balance due on her. I have been very successful with Girlie, as I have two heifer calves now. I paid for Girlie with the money that was clear, over her feed and any other expenses. I did not put any money in on her that she did not earn. Girlie paid for herself in eleven months to the day.—RALPH S. EDWARDS, Leavenworth County.

Has Paid for His Cow

I am glad to say I finished paying for my cow this month. She is not giving quite as much milk this month as she did before, but is still doing pretty good. I read KANSAS FARMER every week and I find many interesting subjects.

If I have not been as prompt with my records as I ought to be, it is because I have been studying hard at school. I am taking the examination for the eighth grade.—ERNEST WENDEL, Leavenworth County.

Return of Sample Bottles

Several of our Dairy Club members have complained about their sample bottles and containers not being returned by the dairy department at the agricultural college. We took this matter up with the dairy department and have their answer that the bottles and containers have been returned unless the sample was sent in an ordinary bottle. In such case, thinking they had other bottles of this kind, the return postage was saved. Many of the home-made containers are in very poor condition when received at the college and not worth returning. Milk sent in bottles with metal tops corrodes the tops and these bottles are unfit to return.

So if you have not received your sample bottle or container, it is because of one of these reasons, all of which are good, and you should not let this in any way interfere with your sending your next sample on the fifteenth of the month.

We are sure our Dairy Club members have in their work with their cows learned many good lessons which others older in years have missed. One of the most important of these is that a cow responds to kind treatment in a substantial way. Moving the cow's foot back with the sharp edge of the milk stool or the heel or toe of the shoe, has never increased her flow of milk. On the other hand, the milker who is on friendly and speaking terms with his cow will be rewarded with her best work at the milk pail.

Food Conference Resolutions

The committee appointed by President H. J. Waters in his capacity as chairman of the food conference held in the governor's office Thursday, March 15, reported the following resolutions:

"The world's food supply is at present below normal. In the United States, last year's crop production was normal with the exception of wheat and potatoes. However, enough wheat was held over from 1915 to provide more than a normal supply for the United States in 1917. The increased demand for export has now reduced the surplus to a narrow margin.

"But the food shortage which this conference has been called to consider is due in part to the concentration and withholding from the markets, for speculative purposes, a part of the visible supply, and in part to the inability of the railroads to move promptly the needed supplies from points of production to the centers of consumption. According to the crop report for March, issued by the United States Department of Agriculture, the farmers of America have on hand little more than one-half as much foodstuffs as were in their possession at this time one year ago. Most of this material, it should be remembered, will be required for seed, and for use on the farms.

"More than 25 million men have been withdrawn from productive pursuits and are now under arms. But these millions continue to consume food, perhaps on a larger scale than formerly. Obviously this drain upon the world's supplies of food must be felt. Considering this situation, and the fact that 1916 was an unfavorable crop year the world over, and more especially viewing the world's present stores of food products, this committee begs leave to recommend:

"That a Federal Food Commission be created, clothed with power to regulate and control the storage, distribution and transportation of all food products whenever necessary to the end that oppressive

concentration and manipulation of food products may hereafter be prevented.

"That the people in cities and towns be urged to utilize all vacant ground available for growing garden and truck crops for immediate table use, and to preserve by canning or in storage all surplus products for winter use. And, further, that farmers and farm children be urged to participate in the same laudable activities.

"That it is the sense of this conference that bankers should co-operate closely with farmers everywhere in providing funds needed in buying seed and necessary equipment for farm operations and in order to enable farmers to maintain breeding stock.

"It is further the sense of this conference that the farmers of this country are not now receiving excessive prices for food products, considering the greatly increased cost of farm operation and especially in view of the pressing need for attention to the maintaining of soil fertility on American farms.

"We urge against any plowing up of

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The Super-Six is the only car that ever went 1819 miles in 24 hours.

It is the only car that ever went from San Francisco to New York and back in 10 days and 21 hours. In that one round trip it twice broke the ocean-to-ocean record.

At Pike's Peak, a Super-Six Special defeated 20 great rivals, all specially built for hill climbing. It made the best time in the world's greatest hill-climb.

It holds all the speed records for stock touring cars, and the records for quick acceleration.

Note What That Means

You say you don't want a racing car. We know you don't. You will never, perhaps, use half the power or speed of the Super-Six.

But mark that this motor is a small, light, simple Six. We have added no size or cylinders. We have taken a light Six and, by this invention, increased its efficiency 80 per cent. And solely by reducing friction, which destroys the motor and wastes its power.

We Did Just This

The Six-type motor had great limitations. Despite all perfections, much vibration still remained. And vibration causes friction.

Some engineers, including the Hudsons, were testing Eights and Twelves. They felt that twin-type motors might solve the friction problem. The trend was away from Sixes.

Then Hudson engineers brought out this Super-Six invention. It is a Hudson invention, patented by Hudson. In this new-type Six they obtained all the efficiency and endur-

ance sought for in the multi-cylinder type and they did this without adding cylinders, complications or weight.

All in Endurance

All the Super-Six records—for speed, hill-climbing and long-distance—were won by this motor's endurance. They mean that motor wear and friction are reduced to almost nothing.

By excelling in these feats, it proved that this motor will outlast any other type.

That is what you want above everything else. You want less wasted power, less wear, less friction. That means, of course, supreme performance. But it also means supreme economy.

What You Can't Afford

Some men will say, "I can't afford a superb car like the Hudson."

But you can. All this beauty, luxury and superlative performance will cost you less than many a car without them.

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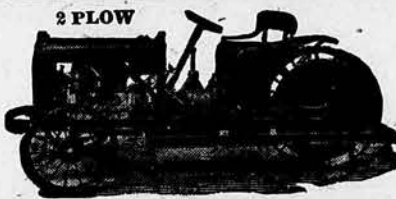


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The proprietary remedy sharks have found in contagious abortion a rare opportunity. Beyond the appropriate handling of the herd and disinfection there is nothing to offer at this time. The following brief statement is found in a recent Department of Agriculture folder: "It should be understood that no effective cure for contagious abortion has yet been found. Do not depend on drugs and proprietary remedies."

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Poultry and Egg Shortage

AT THE conference held in Topeka last week to discuss the food situation, Ross M. Sherwood, poultryman at the agricultural college, explained why poultry and eggs are so scarce, and made some suggestions for correcting the condition.

He pointed out that the poultry and egg shortage is due to the fact that the laying hens and pullets have been sold because of the high prices for feed and good prices for poultry. Every day hundreds of hens are marketed. These should not be sold at this season of the year, because they could profitably be held for egg production for several months.

The remedy is to unite in an effort to produce more and better poultry and eggs the coming season. This may be accomplished by breeding better poultry, by hatching early and by careful feeding. The eggs should be infertile during the warm months and so handled that they may reach the consumer in good condition.

The number of eggs per fowl may be increased by mating the fowls on the farm with pure-bred cockerels from high egg producing strains. Even better results will follow the mating of the fall and winter egg producers to the good cockerels. Since cockerels were very scarce the past year it is advisable to secure those for next year as early as the coming winter as possible. Those who have high egg producing strains of fowls should raise more cockerels than usual.

The chicks of the medium weight breeds should be hatched at once so that they will be mature and ready to lay before the cold weather comes on. The lighter breeds should not be hatched as early because they will moult if they start laying much before the first of October.

The laying hens should secure a liberal amount of grains and mash. The exact grain to feed should be determined by the kind available, and the cost. Kafir is very satisfactory for the morning feed, while corn is better for evening. About half as much should be fed in the morning as at night. The morning feed should be given in deep litter so that the fowls will have plenty of exercise. Wheat is too expensive to feed at present prices. Bran and alfalfa leaves or hay are good to feed in addition to the grain feeds. Sour skim milk or meat scraps should also be fed. Unless the milk or meat scrap is fed, the best results will not be secured. During the summer the hens should receive an evening feed unless they go to roost with a full crop, without it.

No one should be afraid that the increase of production will ruin the markets. Last year one Kansas dealer imported eggs from China to the United States to supplement our supply. Since that time an enormous number of hens has been sold. The demand for eggs will also be greatly increased as the producer supplies better quality of eggs. A number of consumers are disgusted with the poor quality of eggs offered during the summer months and refuse to use them on the table. If they could depend on the quality of the product, the demand could be increased with the supply.

Every producer should remove the cockerels from the flock as soon as the breeding season is over. The hens will lay as many eggs without the cockerels and they will keep much better. In some sections the past summer as high as fifty cents was actually lost on every dollar's worth of eggs from the time they were produced until they reached the consumer. If the producers will get together and supply infertile eggs, the State of Kansas will receive thousands of dollars more from her poultry and the people of the United States will secure millions of dozens more good market eggs to relieve the present food shortage.

Hens Have Liver Trouble

S. W. B., Cheyenne County, asks for help in checking a disease among his hens, which he describes as follows: "Droopiness is the first symptom. Their combs stay red until the very last. They quit laying, seem full of water, and die without a struggle. I have lost

about fifty. Their feed consists of corn, wheat, oyster shell, and farm waste. I took the wheat away from them, as it was smutty and I thought this might be the cause of the trouble, but there was no change."

N. L. Harris, of the poultry department of the agricultural college, answers this inquiry as follows:

"From your description of the trouble with your birds, I would say a congested liver is the cause of it. This condition is usually caused by lack of exercise. Would advise that you stop feeding corn for a couple of weeks and give a mash of 8 parts bran, 4 parts shorts, and 1 part commercial beef scrap. If possible, give the hens all the sour milk or buttermilk they can drink. Starve them for six or eight hours, once a week, and then give a light feed of moistened bran mash in which you have mixed a good-sized handful of epsom salts to 100 pounds of hens. Do this three or four times. I believe it is good practice to give salts at least once a month to laying hens. Do not feed any grain unless it is scattered in some scratching litter where the poultry must dig for it."

Brooders Necessary

Some artificial means of brooding chicks must be provided when incubator chicks hatch in cool or cold weather. Where only a small flock of chickens is to be raised it is not profitable to use either the incubator or brooder, but where large numbers are handled the brooder becomes a matter of great convenience and profit.

Keeping chicks in large flocks minimizes the labor and reduces the cost of houses and yards. Where hens are used for brooders in cold weather only a few chicks can be given to each hen. This requires a large number of coops and the attendant is compelled to give each group nearly as much attention as would be required for one large flock cared for by the brooder.

There are nearly as many makes of brooders on the market as there are incubator factories in the country. Some of these brooders are so cheaply constructed as to be in constant danger of fire. Many small brooders are on the market, however, which are practically fire-proof and which have a capacity of from fifty to a hundred chicks.

Follow Incubator Instructions

There is great difference between incubators. Different makes require different treatment. All incubators must be adapted to the particular environment while many possess greater range of adaptability than others. The cheaper machines usually lack this feature, and

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Indications now are that the garden will be well worth some extra care and attention this year. Better get plenty of good seed early and be ready to plant as soon as possible. Plan for a good variety of vegetables the season through, from radishes to celery.

Canna bulbs may be started into growth soon.



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while they may produce satisfactory results under one set of conditions, they may be an absolute failure under others. If a machine is producing unsatisfactory results, perhaps a slight change will remedy the fault and eliminate the trouble.

Incubator companies always send a detailed list of directions with their machine and, in justice to them, they should be closely followed. See that the thermometer is registering correctly and, also, that it is the proper distance from the eggs. If the directions say level with the top of the eggs it does not mean two inches or even one-half inch above, but exactly level. The incubator should be thoroughly cleaned and disinfected before every hatch. Ventilation should be largely restricted the first week and then increased to full capacity at the close. The amount of ventilation varies with the temperature of the room. Cooling the eggs every day after the third day strengthens the germ, but cooling does not mean chilling. Eggs should be cooled slowly. Above all, eggs should never be turned after the lamp has been cared for. The oil on the hands will close up the pores in the shell and suffocate the chick.

Crooked Breast Bones

As the hatching season is in full blast just at this time and all poultrymen are busy rearing their young stock, it might be of benefit if we suggested something that would help prevent crooked breast bones in the coming generation of chicks.

Poultrymen usually attribute crooked breast bones to the fact that such chickens began to roost on poles too early in life. The weight of the body resting on the poles, they imagined, caused the breast bone to be deformed. We are inclined to the belief that this, in a large majority of cases, is due wholly to the lack of sufficient ash and mineral matter in the food. These elements were lacking to such a degree that the bones did not grow and develop as they should, but became deformed. We have seen chickens roost continually upon a bed of straw until they were practically mature and yet they had crooked breast bones. And again we have seen chicks begin to roost on poles very early in life, yet it was very seldom that you found a chick with a deformed breast bone. After experimenting and after considerable observation, we believe that the fault is in the fact that there is insufficient ash, mineral matter and bone building material in the food given such chicks.

In feeding hens, if lime is lacking in the food, the hens will eat their own eggs to get the lime contained in the shells and they will keep drawing on the lime in their bones until their bones are soft. The same principle applies in the case of crooked breast bones.

Perhaps no part of the mash is so often neglected as the mineral element of chick foods. All grains contain more or less ash and mineral matter, but the average food is deficient in meeting the needs of the chick, which is growing rapidly and requiring a great quantity of building material for bones. Bone meal or finely cracked bone is very essential. This should be mixed in the mash in addition to feeding chick grit, and charcoal. Beef scraps, fish scraps, granulated milk, fresh meat, skim milk and buttermilk are all good, but bone meal should be supplied in addition. We use about five pounds of fine bone meal to each hundred pounds of dry mash.—T. E. QUISENBERRY.

Where hens are not available for brooding chicks and only a few are to be raised, it is possible to construct a home-made brooder. These usually require considerably more attention than those on the market, but will give fairly good results. The most common method of heating these home-made brooders is by means of a jug of hot water. A box which contains sufficient room for from fifty to a hundred chicks and which is tight on all sides excepting the front, is the first requirement. Some method of ventilation should be provided on the top of the box. A two-gallon jug of hot water furnishes the heating plant. The jug should be wrapped in burlap to protect the chicks and aid in retaining the heat.

A large percentage of the hen-brooded chicks suffer from the effects of head lice. These not only are bothersome to the newly-hatched chick, but continue to be a source of trouble through the entire season.



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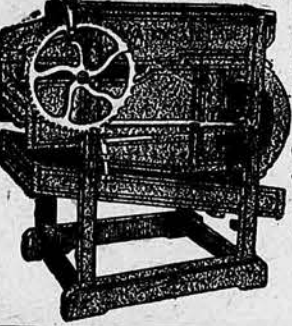
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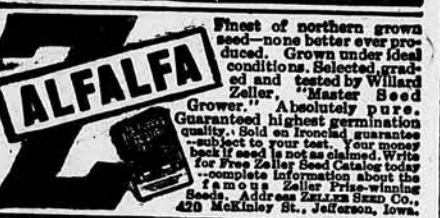
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We desire to make this department just as helpful as possible, and believing that an exchange of experiences will add to its value, we hereby extend an invitation to our readers to use it in passing on to others experiences or suggestions by which you have profited. Any questions submitted will receive our careful attention and if we are unable to make satisfactory answer, we will endeavor to direct inquirer to reliable source of help. Address Editor of Home Department, Kansas Farmer, Topeka, Kansas.

There are two kinds of freedom—the false, where a man is free to do what he likes—the true, where a man is free to do what he ought.—CHARLES KINGSLEY.

Variety in Food Preparation

Variety in the preparation of food for the table will add to its palatability. For example, when a can of tomatoes is opened, if, instead of cooking all of them at once and putting them on the table at each meal until they are eaten, only a part is served and the balance set away to be served differently, they will be relished more. Tomatoes served cold right from the can, with mayonnaise or French dressing, or just plain, are an appetizing salad. For one meal a part of the tomatoes might be cooked and seasoned with salt, a pinch of sugar, butter or cream and a little flour thickening. Still another way to use them is to season and bake with bread crumbs, covering the top with crumbs and letting them become brown. Try browning all the crumbs before mixing with the tomatoes.

Baked canned corn is also very appetizing and is a change from the usual creamed corn. Browned bread crumbs can be used with this, too.

We are told that potatoes retain more of their nutritive value when baked or boiled in the skins, than when cooked in any other way. Few people like cold baked or boiled potatoes, but if skinned and heated in a little butter, seasoned, and a little cream added just before removing from the fire, the left-over baked or boiled potatoes will be relished—as well as saved.

Unfortunately we have not all been trained as Benjamin Franklin was—to eat what is set before us without knowing what it is. We have our likes and dislikes which must be considered in the preparation of meals and it is the appetizing meal that is eaten with the greatest satisfaction.

Nutritive value of food should be combined with palatability instead of either being sacrificed for the other.

Should Eat More Vegetables

The family diet is not complete without fruits and vegetables. Without these the food lacks in minerals needed for building the body and keeping it in good working condition. It will also lack acids which give it flavor, keep the system clean and serve other good purposes. And because fruits and vegetables are bulky they are very satisfying to the appetite.

The summer diet of most farm families abounds in fruits and vegetables, but too often the winter supply is scanty because it must be bought. A sure way to overcome the short winter supply or the necessity for buying it, is to plan for the winter at garden planting time and enlarge the garden to the point where it will supply the need. In many localities this is the practice and the surplus vegetables and fruits are canned and kept for the winter. Gardening and canning should be more generally practiced on a much larger scale.

Garden Produces Cheap Food

As much garden as can be well tilled, for every family, was the contribution of W. M. Jardine, director of the Kansas Experiment Station, to the solution of the problem of high food costs, at the recent food conference. This was suggested as an effective means of immediate relief. He stated that a square-foot garden, properly managed, will supply a family of five with radishes, lettuce, onions, beets, carrots, parsnips, beans and peas, through the summer and leave a surplus for canning for use during the winter. As much more garden should be planted as there is room for, up to the point of supplying all the family can use, if the added ground can be well tilled. But the smaller garden well kept is more profitable than the larger one that is neglected.

The expense and work of canning the

surplus garden products are of little consequence as compared with the benefits received.

Figures recently obtained showed that a canning factory's cost on a quart of tomatoes was only four cents. The expense should be even less for the producer of the vegetables as the cost of the jars for canning should be pro-rated against the number of years they are used. An economy in jars can be practiced by keeping the later vegetables in a dark cool place until well into the fall when some of the earlier canned products will have been used and the cans thus made available for second filling.

We agree with Director Jardine in his belief that to a great extent this is an individual problem and that more attention paid to the home garden by a greater number, will lower the cost of food.

On another page in this issue will be found a carefully worked out garden table prepared by the Kansas Experiment Station and which gives information that can be studied with profit by every gardener.

For the Boys and Girls

How many of you have heard older people say, "If I had known when I was a child what I know now, I would have done differently."? Most of you have heard this several times. Have you ever wondered what people mean when they say this? You will know a few years later, but we wish you might understand their words now for it would help you so much in forming your life habits and in building character. They mean that had they known their childish habits would have so large a part in molding their lives—in making them successful and useful—they would have been more careful in forming those habits.

One of the things that puzzles so many children and yet is so easily understood after the years of childhood are gone, is why we cannot always do just as we want to do. We feel Mother and Father are unjust when we are not allowed all the pleasures—as we call them—that some other boys and girls enjoy. It may be these things would be very harmful to us, so when they are denied let us try to think it is best this way, instead of thinking we don't have near as much fun as other children have.

When we are urged to do our very best at school, let us remember that all these lessons have a part in our whole life and that we should do our very best for this reason even if we had not been urged. When we are asked to help with the work at home, let us do this because we are anxious to learn all about it and not allow the thought that we must do it, make us unhappy.

It is the obedient, helpful child—the one who is looking for something to do for others that he has not been asked to do—who is the happiest, and whose life unfolds before him in the natural way that helps him to make the most of it.

"There is a way of receiving a flower from a little child that makes the child long for the next summer to come in a great sudden hurry that it may gather all the flowers in the field for you."

Boiled Custard

- 2 cupsfuls scalded milk
- 1/4 cupful sugar
- 1/2 teaspoonful salt
- 1/2 teaspoonful vanilla
- Yolks 3 eggs

Beat eggs slightly, add sugar and salt, and stir constantly while gradually adding hot milk. Cook in double boiler, continue stirring until thick and coating is formed on spoon, then strain immediately and chill and flavor. The custard will curdle if cooked too long. By using an egg beater it may be made smooth again but it will not be as thick. Eggs should be beaten slightly for custard that it may be smooth and thick. Cover with a perforated tin to prevent scum from forming. When eggs are scarce, use yolks of two eggs and one-half teaspoonful corn starch.

"Standard" Plumbing Fixtures

for Bathroom, Kitchen or Laundry, represent the quality and service in this line that have been standard for many years. The books shown below give you a wide variety of fixtures—in style and price—for every kind of use. If you intend to build or remodel, send for these books—insist that every fixture you buy has the "Standard" Green and Gold label.

Standard Sanitary Mfg. Co.
Dept. 211 Pittsburgh, Pa.



Utah Lands

are among the choicest in the West. You can buy rich, productive, irrigated or non-irrigated, lands at moderate prices, and on good terms, that are within easy reach of excellent markets.

Tell me for what purpose you desire the land, and I will send to you authentic information absolutely FREE.

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APPLE, PEACH TREES—True to Name 4c

Cherry Trees only 10c.

Everything at bargain prices.

SEED CORN, standard varieties, per bu. \$1.75

Buy of the producer—save money! Send for latest FREE Catalog of Bargains.

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Hyde's Sudan is tagged—Showing exact purity and germination. Why take a chance? We ship direct from farm to farmer. Hyde pays the freight and refunds your money if not entirely satisfied. FREE CATALOG and Price List sent postpaid—Write at once. HYDE'S SEED FARMS, 300 Hyde Bldg., Paterson, N. J.

Hill's Evergreens Grow

Best for windbreaks and hedges. Protect crops and stock. Keep house and barn warmer—save fuel—save feed. Hill's evergreens are hardy, nursery-grown. Get Hill's free illustrated evergreen book and list of 50 Great Bargain Offers—from \$4.50 up per Thousand. 55 years' experience. World's largest growers. Write D. HILL NURSERY CO., Inc. Evergreen 2615 Cedar St., Dundee, Ill. Specialists.

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WHEN WRITING TO ADVERTISERS PLEASE MENTION KANSAS FARMER

Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items of 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 advertisement here reaches over 60,000 farmers for 5 cents a word per week. No "ad" taken for less than 60 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.

BE A GOVERNMENT FARMER. GOOD pay; steady, interesting job. Write Central Institute, 44-E, St. Louis.

MAN OR WOMAN TO TRAVEL FOR old established firm. No canvassing; \$1,170 first year, payable weekly, pursuant to contract. Expenses advanced. G. G. Nichols, Philadelphia, Pa., Pepper Bldg.

MEN—18 OR OVER BECOME RAILWAY mail clerks. \$75 to \$150 month. Vacations. Big chances farmers. Write immediately for list government positions easily obtainable. Franklin Institute, Dept. A-82, Rochester, New York.

AGENTS WANTED.

WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 671, Springfield, Ill.

REAL ESTATE.

FOR BEST 320 ACRES HOMESTEAD relinquishments see Watson Land Co., Lamar, Prowers Co., Colorado.

640-ACRE MONTANA HOMESTEADS— new law. Circular free. Bureau 63, Boulder, Montana.

YOUR CHANCE IS IN CANADA.—RICH lands and business opportunities offer you independence. Farm lands, \$11 to \$30 acre; irrigated lands, \$35 to \$50; twenty years to pay; \$2,000 loan on improvements, or ready made farms. Loan of live stock; taxes on image under 20 cents an acre; no taxes on improvements, personal property, or live stock. Good markets, churches, schools, roads, telephones; excellent climate—crops and live stock prove it. Special homeseekers' fare certificates. Write for free booklets. Allan Cameron, General Superintendent Land Branch, Canadian Pacific Ry., 234 Ninth Ave., Calgary, Alberta.

NEW FARM OPPORTUNITY IN ONE OF the greatest states in the Union. A new line of the Santa Fe is tapping a rich and fertile prairie section of Northwest Texas, where already many farmers have made good in a big way with wheat, hogs and live stock. Here, if you act now, you can get first choice—get in on the ground floor of a great opportunity. You can get in ahead of the railway—ahead of the people whom the railway will bring—ahead of those who act more slowly than you do. This is the chance of a lifetime for a man of moderate means. A certain number of thrifty, far-seeing farmers can acquire good land at astonishingly low figure and on long, easy terms. If you have confidence that a great railroad, like the Santa Fe, would only recommend what it considers a good thing, and because it wants to see new territory developed and wants newcomers to prosper and produce—then write me today for particulars about this district. Milk for particulars about this district. Milk, climate, social advantages, schools, churches, telephones, good roads. Everything there but enough men with their families. Will you be one of the fortunate first comers to reap the advantages of a section that has been minutely inspected by a Santa Fe agricultural agent and pronounced right? Write me now and let me send you a copy of the special illustrated circular we are getting out. C. L. Seagraves, Industrial Commissioner, A. T. & S. F. Ry., 931 Railway Exchange, Chicago.

WISCONSIN LAND FOR SALE

LANDOLOGY. A MAGAZINE GIVING the facts in regard to the land situation. Three months' subscription free. If for a home or as an investment you are thinking of buying good farm lands, simply write me a letter and say, "Mail me Landology and all particulars free." Address Editor Landology, Skidmore Land Co., 301 Skidmore Bldg., Marinette, Wis.

HOGS.

BIG-TYPE POLAND BOARS. U. A. Gore, Seward, Kansas.

FOR SALE—GOOD STRETCHY POLAND China fall boars. Ed Beavers, Route 2, Junction City, Kansas.

SITUATION WANTED.

WANTED—A POSITION ON RANCH OR farm as foreman. Address Box 64, Concordia, Kansas.

YOUNG MAN WANTS WORK ON FARM until harvest. Would expect \$25 per month including board and washing. F. L. McIntire, Rogers, Ark.

WANTED, AT ONCE—SINGLE FARM hand who understands stock and farm work and wants permanent employment. No boomer or loafer need apply. Box 36, Russell, Kansas.

HORSES AND MULES.

SHEPHERD PONIES, FIFTY HEAD. moderate prices. Charles Clemmons, Coffeyville, Kansas.

FOR SALE OR TRADE—PRINCE VIC- tor, the best grade Percheron stallion in Harvey County. Weight 2,000 pounds; age 9 years. G. W. Perkins, Newton, Kansas.

JACK FOR SALE OR TRADE—FIVE years old, gray, 14 hands jack measure; excellent breeder. Sacrifice price. Harry Bilsen, Eureka, Kansas.

TREES, SEEDS AND PLANTS.

EVERBEARING STRAWBERRIES—PED- igreed, Progress, Superb varieties. \$1 per hundred. J. A. Dowden, North Bend, Neb.

TREES, SEEDS AND PLANTS.

WHITE BLOSSOM SWEET CLOVER, reasonable. John Lewis, Hamilton, Kan.

TREES AT WHOLESALE—CATALOGUE free. Agents wanted. Peyton Nurseries, Boonville, Mo.

TEN ELBERTA AND FIVE CHAMPION peach trees, postpaid, \$1. Send now. Wellington Nurseries, Dept. C, Wellington, Kan.

BEST PROGRESSIVE EVERBEARING strawberry plants cheap. For particulars write R. N. Thomas, Shenandoah, Iowa.

BLACK HULLED WHITE KAFIR SEED, re-cleaned, tested and sacked, \$2 per bushel. Grover Lee, Pratt, Kansas.

SEED CORN—BOONE COUNTY WHITE, carefully selected, \$2.50 per bushel shelled. J. W. Taylor, Edwardsville, Kansas.

WHITE SWEET CLOVER BOUGHT (large or small lots) if priced attractively. State lowest price. Box 375, Emporia, Kan.

SEED SWEET POTATOES—PUMPKIN yams, 3c a pound or \$1.50 shipped in bushel boxes. J. Medford, Wheatland, Okla.

RECLEANED ALFALFA SEED AT \$7 per bushel. New sacks extra, 25c. Write for samples. A. B. Wilcox, Abilene, Kansas.

ENGLISH BLUEGRASS—NEW, RE- cleaned seed, \$10 per 100 pounds. Henry Mosher, Schell City, Mo.

PLANT OUR HARDY NORTHERN NUT trees, budded and grafted, pecans, English walnuts, chestnuts. Catalog free. R. L. McCoy, Lake, Indiana.

ALFALFA SEED, NEW CLEAN UPLAND, 14 cents per pound for one bushel or more. Bags, 25 cents. Sample on request. W. M. Hixon, Berryton, Kansas.

ALFALFA SEED FROM NORTHWEST Kansas, 95 per cent pure. Good germination. \$5.50 per bushel. Geo. Bowman, Logan, Kansas.

SEED CORN—DIAMOND JOE WHITE, excellent drought resister, and Reid's Yellow Dent. Graded, \$2.50 bushel. D. D. Denver, Milford, Kansas.

PURE GOLD MINE AND BOONE COUNTY White seed corn, selected, graded, \$2 per. Alfalfa seed, \$7.50 per. Samples free. J. F. Feigley, Enterprise, Kansas.

FOR SALE—BOONE COUNTY WHITE seed corn, made over 30 bushels this year. Hand picked. \$1.75 per bushel. W. C. Baumgartner, Halstead, Kansas.

ALFALFA SEED FROM HIGH PRODUC- ing fields, 370 bu. from 40 acres. 99.74% pure. 95% germination. \$8.00 per bu. Sample free. Stockwell Farms, Larned, Kansas.

COMMERCIAL WHITE SEED CORN, \$2.50 bushel. "Meadow fescue," 7c pound. White clover, 35c pound. Alfalfa, \$8. E. D. King, Burlington, Kansas.

REID'S YELLOW DENT, BOONE COUNTY White seed corn. Genuine Red Texas seed oats, clover, timothy and alfalfa seed. S. G. Trent, Hiawatha, Kansas.

BLACKBERRY ROOT CUTTINGS— Early Harvest, \$1.25 thousand. Rhubarb roots, \$1.75 hundred. Catalog. Adams & Son, Fayetteville, Ark.

SEEDS—WHITE SOURLESS, ORANGE and Red Amber cane seed at \$2.20 per bushel. Siberian and German millet at \$2 per bushel. Barley at \$1.25 per bushel. Sacks free. J. S. Friesen, Hillsboro, Kansas.

SEED CORN—1916 CROP, SATISFA- ctory germination guaranteed. (Test it yourself before payment.) Write for particulars. Northern grown Sudan seed. Willis Conable, Grower, Axtell, Marshall County, Kansas.

BEAUTIFUL FLOWERS—BIG STOCK, canna, gladioli, woolflower, salvia, tomato, cabbage, pepper, sage, and other flowering and vegetable plants. Seeds and bulbs. Write for descriptive price list. Henry S. Jefferies, Ottawa, Kansas.

TREES, SHRUBS, PLANTS, VINES, seeds. Everything at lowest prices direct to you. All tree peddlers' commissions cut out. Free book. Wichita Nurseries & Seed House, 105 Shell Bldg., Wichita, Kansas.

BOONE COUNTY WHITE SEED CORN a specialty for eight years. First and sweepstakes, Marshal County Fair. \$2.50 bushel, graded. Ernest Schubert, Route 1, Vilets, Kansas.

GERMAN MILLET, FINE GERMINA- tion, 100 pounds, \$3.75. Tested white black-hull kafir, \$1.85 bushel in two-bushel sacks. All sacks free. Brooks Wholesale Co., Ft. Scott, Kansas.

BERMUDA GRASS—HARDY, RANK- growing variety. Stands drouths, floods, hot winds and severe freezing. Best and hardiest pasture grass. Great milk producer. Write for leaflet today telling how to get started. Henry Jefferies, Ottawa, Kansas.

EVERBLOOMING STRAWBERRY plants—Americus, 100 strong healthy plants true to name, only 90 cents; 500, \$4. Have tried Americus, Progressive and Superb. Americus proved the best bearer. Big stock flowering and vegetable plants. Write for descriptive price list. Henry Jefferies, Ottawa, Kansas.

ALFALFA AND KAFIR SEED—RE- cleaned, home-grown, non-irrigated. Alfalfa seed, \$5, \$6, \$7, \$8 and \$9. White flower sweet clover, hulled, \$12; unhulled, \$7.50. Pure white kafir, \$2; good growing kafir, 1% cane seed, \$1.75 per bushel, our track. Seamless bags, 30c each. Samples on request. The L. C. Adam Mercantile Co., Cedar Vale, Kansas.



The New Hired Hand!

—the farmer needs good help in the fields. His wife needs good help in the kitchen. Her important duty is to make the best bakings. Her most important helper is Baking Powder.

If she tries Calumet she'll stick to it. Its dependability and uniform quality means good-bye to bake-day failures.

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Received Highest Awards
New Cook Book Free—See Slip in Pound Can.

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CALUMET BAKING POWDER CO.
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CATTLE.

FOR SALE—ONE PURE-BRED JERSEY bull calf, born January 24, 1917. Write H. H. Starr, Claflin, Kansas.

TWO GUERNSEY HEIFERS, BOTH REG- istered, richly bred, in calf and priced right. J. W. Marley, Oswego, Kansas.

GALLOWAYS FOR SALE—TWENTY head registered. T. T. Huntington, Rochestport, Missouri.

HIGH GRADE HOLSTEIN HEIFER calves, \$17 each, crated. Edw. Yohn, Watertown, Wisconsin.

REGISTERED HOLSTEIN BULLS TWO to seven months old, very reasonable. Wm. Mielenz, 97 Wisconsin, Milwaukee.

FOR SALE—A RED POLED BULL calved November 19, 1914. Will make a show bull. Geo. Haas, Lyons, Kansas.

300 HEAD OF REGISTERED AND HIGH grade cows and heifers for sale, headed by the great 40-pound bull, Johanna King Segis. Neal Houslett, Oxford, Wis.

CHOICE CALVES—HOLSTEINS, GUERN- seys, Shorthorns, high grades, \$15 to \$35 according to age. Expressed to you at little cost. Write Paul Johnson Company, South St. Paul, Minn.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16ths pure, crated and delivered to any station by express, charges all paid, for \$23 apiece. Frank M. Hawes, Whitewater, Wis.

ONE HUNDRED CHOICE BREEDY HOL- steins from six months to six years. Some fresh, a lot springing. Tuberculin tested, three-fourths white, dairy conformation. Yearlings extra large. C. S. Simmons, Belmont, Wisconsin.

HEDGE POSTS.

FOR SALE—FIFTY THOUSAND OSAGE hedge posts. H. W. Forth, Winfield, Kan.

MISCELLANEOUS.

FOR SALE—16-HORSEPOWER GASO- line engine on steel truck; good as new. Double seated carriage, rubber tires, good as new, cost \$480, or will trade either of the above. Make me an offer. H. W. McAfee, Route 8, Topeka, Kansas.

THE STRAY LIST.

TAKEN UP—BY PETER MUGLER, OF McPherson, King City Township, McPherson County, Kansas, on the 19th day of February, 1917, one red steer, about 1½ years old, small V cut in top of right ear. W. E. Rostine, County Clerk.

TAKEN UP—BY B. F. FORD, OF SEN- eca, Adams Township, Nemaha County, Kansas, February 21, 1917, one red cow four or five years old. Tip of tall white, white streak under belly. No marks or brands. Appraised at \$45. W. L. Kaufman, County Clerk.

BUSINESS CHANCES

offer to introduce my magazine, "Investing for Profit." It is worth \$10 a copy to any one who has not acquired sufficient money to provide necessities and comforts for self and loved ones. It shows how to become richer quickly and honestly. Investing for Profit is the only progressive financial journal and has the largest circulation in America. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 431.28 W. Jackson Boulevard, Chicago.

DOGS.

COLLIE PUPPIES, \$5. FRANK BAR- rington, Sedan, Kansas.

FOR SALE—SCOTCH COLLIE PUPS, farm raised, from good workers. I. P. Kohl, Furley, Kansas.

AIRDALE—THE GREAT TWENTIETH century dog. Collies that are bred workers. We breed the best. Send for list. W. R. Watson, Box 128, Oakland, Iowa.

S. Y. Thornton, the well known Duroc Jersey breeder of Blackwater, Missouri, reports a heavy demand for high class Durocs. He has practically sold out of breeding stock ready for service. He has saved a large number of February pigs and has a large number of sows bred for March farrow.

Real Estate For Sale

For Sale

EIGHT-ROOM HOUSE, MODERN, in Kenwood Addition. The best residence district of Topeka. Good terms. Write

KANSAS FARMER, BOX 3
TOPEKA, KANSAS

Improved Section \$8 per Acre

Excellent Stock Ranch, Wichita County, Kansas. With plenty of outside range, on daily motor mail route. Some rolling land but greater part of place nice smooth farm land. Abundance of water, bargain, must be sold at once.

D. F. CARTER - LEOTI, KANSAS

480 ACRES, this county. Near oil devel- opment. Can lease for oil. \$1.50 per acre. Good pasture. \$4.50 per acre. Terms.

SOUTHERN REALTY CO., McAlester, Okla.

EXCHANGES.

I have good farms to trade for smaller farms and city property. Write me.

W. M. GARRISON - SALINA, KANSAS

640-Acre Homestead waiting for you. Good grass, water, plenty timber. Don't miss opportunity. Best ever. For particulars write J. C. Wynn, LOCATOR, GRANTS, N. MEX.

SPECIAL BARGAIN—Highly improved 120-acre farm adjoining Ottawa, abundance good water, good soil, very choice home. Write for descriptive list of same.

Special Price on 360 acres, well improved; 100 acres tame grass.

Also 170 acres, well improved, choice farm. Ideal location, very attractive. Write for full descriptions. Possession at once.

MANSFIELD LAND CO., OTTAWA, KAN.

FARM AND HERD.

E. J. Stearns, of Elkhorn, Wisconsin, owner of one of the good Holstein herds in that state, reports his herd making a fine record this year. This herd is noted for heavy production and a feature of the herd at this time is the fine lot of young stock by a 31-pound sire.

M. E. Peck & Son, Salina, Kansas, have announced Monday, April 9, as the date of their sale of 200 head of Holsteins and a choice lot of Jerseys. Among the lot will be forty head of Holstein cows, all springers. They are excellent in quality and conformation. There will also be 100 head of three-year-old heifers, all springers; sixty head of coming two-year-olds, six registered Holstein bulls, and a choice lot of Jersey heifers that will be fresh from April 1 to 15. The entire offering is tuberculin tested.

W. H. Mott, sale manager, of Herlington, Kansas, announces a sale of registered Holsteins to be held at Newton, Kansas, April 7, the day following the meeting of the State Holstein-Friesian Association. Sixty head of choice Holsteins have been selected from the herds of Dr. Axtell, Newton, Kansas; Dr. Schuyler Nichols, Herlington, Kansas; and W. H. Mott, of Herlington. The owners of these herds have made a sacrifice in the interest of a choice offering that will meet with the approval of Holstein breeders. The offering will consist of thirty cows, most of them near freshening; twelve head of two-year-olds that will freshen soon; a lot of yearling and coming two-year-old heifers; three bulls of serviceable age, and several calves of both sexes by Canary Butter Boy King.

D. S. Mayhew, of Sweet Springs Stock Ranch, Monett, Missouri, reports his big herd of Jerseys making a good record this year. Mr. Mayhew owns one of the very high class herds of registered Jersey cattle in Missouri. His blood lines are the best of the breed and his herd is noted for its heavy producers. A feature of his herd at this time is the big lot of fall boars and gilts, including herd headers.

H. E. Anderson, of Clover Valley Holstein Farm, Whitewater, Wisconsin, reports a heavy demand for high class Holsteins, and during the past week he has shipped three carloads of high class Holsteins, all of them to the Southwest. Clover Valley Holsteins are one of Wisconsin's high record herds and some of the best herds in the country were started with foundation stock from this farm.

RELIABLE POULTRY BREEDERS

PLYMOUTH ROCKS.

WHITE ROCK EGGS, \$4 PER HUNDRED. Nora Lamaster, Hallowell, Kansas.

BARRED ROCK EGGS—WILL PLEASE. \$1 postpaid. Mrs. Geo. Kennedy, Edmond, Okla.

BARRED PLYMOUTH ROCKS—FARM-BRED BEASTIES. Eggs for hatching, 5c each. Mrs. W. C. Becker, Solomon, Kan.

BARRED ROCK EGGS, \$1 PER SETTING, \$4 per hundred. Mrs. Lillie Hirt, Parkerville, Kansas.

CHOICE WHITE ROCK COCKERELS for sale. Mrs. T. A. Case, Route 2, Sterling, Kansas.

WHITE ROCK EGGS, \$2 PER FIFTEEN. Quality guaranteed. W. G. Allison, Sterling, Kansas.

EGGS—FANCY BARRED ROCKS, WINTER layers, \$1.25 and \$2.50 setting. Clyde Karel, Clarkson, Nebraska.

WINTER LAYING BUFF ROCKS—EGGS \$1, \$1.50 setting. Range, \$5 hundred. Chick, 12 1/2c. Mrs. A. P. Young, Lexington, Mo.

BARRED ROCK COCKERELS, \$1.50; eggs, \$1; \$4 per hundred. J. T. Hammerill, Oak Hill, Kansas.

HIGH QUALITY BARRED "RINGLETS" 100 chicks, \$15. Eggs, \$5. Edward Hall, Junction City, Kansas.

BARRED PLYMOUTH ROCK EGGS, \$4 hundred. Valley View Poultry Farm, Concordia, Kansas.

FINE BARRED ROCK EGGS FROM farm raised stock, \$1.50 per fifteen. Mrs. J. A. Grimes, Milo, Kansas.

WHITE ROCK EGGS, HOLBACH strain, \$1.25 per fifteen; \$6 per hundred. Mrs. E. B. Merten, Clay Center, Kansas.

WHITE ROCKS, SIZE AND QUALITY, good egg strain. Eggs—fifteen, \$1; fifty, \$3; hundred, \$6. G. M. Metz, Chilton, Kansas.

BUFF ROCK EGGS FOR HATCHING—Thirty eggs, \$2; fifty eggs, \$3; hundred, \$5. Joe Carson, Bliss, Oklahoma.

BUFF AND WHITE ROCK EGGS, \$2.50 per fifty, \$5 per hundred. Excellent show record. W. H. Beaver, St. John, Kansas.

WHITE ROCKS, FARM RAISED, PRIZE winners. Eggs, \$1.25 setting; \$3, fifty; \$5, hundred. Mrs. Ben Miller, Newton, Kansas.

WEIGHER-LAYER BARRED ROCKS—Pens, \$3 to \$5 setting; stock, \$5 hundred. C. F. Fickel, Earlton, Kansas.

BARRED ROCK EGGS FOR SETTING, \$1 per fifteen, \$5 per hundred. Agnes Wilson, Grantville, Kansas.

BARRED ROCK EGGS FOR HATCHING. Eighty-seven premiums. A. G. Hammond, Vinland, Kansas.

BEAUTIFUL IMPERIAL "RINGLETS" \$35 cockerel heading Pen No. 1. Eggs, \$4 per fifteen. Mrs. Iver Christensen, Jamestown, Kansas.

PURE-BRED BARRED ROCKS EXCLUSIVELY. Choice stock. 100 eggs, \$5; 50, \$3. Safe delivery and satisfaction guaranteed. Adam A. Weil, Clay Center, Neb.

HATCHING EGGS FROM BARRED PLYMOUTH ROCKS, excellent birds. Two dollars for fifteen. Peter H. Friesen, Route 1, Lehigh, Kansas.

BARRED ROCKS—FIRST COCKEREL, Manhattan, 93 1/2. Fifteen eggs, \$3; hundred, \$5. Duroc beans, gifts. F. F. Wood, Wamego, Kansas.

WHITE ROCKS—SEVENTEEN RIBBONS this season. Eggs, one and two dollars per fifteen. Mating list. Ed Fehr, Marquette, Kansas.

BLUE RIBBON BARRED ROCKS—Twenty-eight years experience. 110 premiums. Pens headed by Chicago winners. Eggs, fifteen, \$3, \$3.50. Mrs. Chris Beaman, Ottawa, Kansas.

PRIZE WINNING BARRED ROCKS—Four entries, five prizes. State Show 1917. Eggs, special mating, \$3 to \$5; farm stock, \$1. C. D. Swaim, Geuda Springs, Kansas.

BARRED PLYMOUTH ROCKS, E. B. Thompson strain. Eggs, \$1.50 per fifteen; \$3.50 per fifty; \$6 per hundred. C. J. Rivir, Lafontaine, Ind.

BARRED ROCKS, EXCELLENT IN SIZE and quality. Eggs, first pen, \$3 per fifteen; range stock, \$6 per hundred. Mrs. Myrtle Henry, Route 1, Leecompton, Kansas.

PURE BARRED ROCK EGGS FROM large well-marked range birds, \$1.25 setting, \$6 hundred. Choice Thompson strain pen eggs, \$3 setting. A. R. Blackwelder, Isabel, Kansas.

LINDAMOOD'S BARRED ROCKS, BOTH dark and light matings. Prices for eggs from special matings, \$5 per fifteen. Utility eggs, \$5 per hundred. Send for circular. C. C. Lindamood, Walton, Kansas.

EGGS FOR HATCHING—FROM BEST laying strains of Barred Plymouth Rocks, Bradley Brea and Parks 200-egg strains, \$3, fifteen; \$5, thirty. Catalog. Gem Poultry Farm, Haven, Kansas.

BARRED ROCK EGGS FROM RIBBON winners. Utility, \$4 per hundred; fifty for \$2.50. Pen eggs, \$5 per fifteen. Have always won wherever shown. R. D. Ames, Walton, Kansas.

BARRED PLYMOUTH ROCKS—GENUINE Thompson Ringlet prize winning strains. Pen eggs, either cockerel or pullet mating, also utility flock eggs. Circulars free. A. P. Siefker, Defiance, Missouri.

BARRED ROCK SPECIALIST—PRIZE winning Hobart, first, second, third, fourth cockerel; first, third pullet; first pen; second, third cock; silver cup, gold special. Oklahoma City, first pullet, bred pen, first cock. Eggs, fifteen, \$3, \$3; hundred, \$6. Fred Hall, Lone Wolf, Okla.

RHODE ISLAND REDS.

SINGLE COMB RED EGGS—GOOD FARM range, \$4 per hundred, \$1.50 per thirty. Mrs. Rosa Janzen, Box 242, Geneseo, Kan.

HIGH SCORING R. C. I. REDS—EGGS, \$1.50 per setting. Fertility guaranteed. Chas. Wodke, Council Grove, Kansas.

ROSE COMB R. I. RED EGGS, FIFTEEN, \$2. Fine stock. G. D. Williams, Iaman, Kansas.

PURE-BRED ROSE COMB RED EGGS, \$1 per fifteen, \$5 per hundred. Fine laying strain. Oliver Spencer, Hesston, Kansas.

ROSE COMB RHODE ISLAND REDS—Utility stock. Winter layers. Eggs, \$2, 15; \$5, 45; \$9, 100. Louise Krigbaum, Route 1, Topeka.

ROSE COMB RED EGGS FROM BLUE ribbon winners, \$3, \$5, \$7.50 per fifteen. Best of guarantee. Fred Kelm, Seneca, Kan.

ROSE COMB RED EGGS—RICH, RED, fine undercolor, winter layers. Mrs. Alice Dolson, Neal, Kansas.

ROSE COMB RHODE ISLAND REDS—Eggs, \$2 per setting. Kansas state show winners. Baby chicks. Mating list. L. E. Castle, Wichita, Kansas.

DARK R. C. REDS, PURE-BRED, EXTRA fine. Eggs, \$3 and \$3 per fifteen; \$5 per hundred. W. J. Honeyman & Sons, Elmhurst farm, Madison, Kansas.

PURE-BRED ROSE COMB RHODE ISLAND REDS. Eggs for hatching, \$1 per fifteen, \$5 per hundred. Mrs. L. F. Hinson, Stockdale, Kan.

R. C. REDS—EGGS FOR HATCHING. Laying strain headed by prize winning cockerel. Fifteen, \$3. Mrs. Mira Lambert, Anderson, Missouri.

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SIX GRAND PENS, ROSE COMB RHODE Island Reds that have shape, size and color. Mated to roosters costing \$15 to \$50. Fifteen eggs, \$2.50; thirty eggs, \$4; fifty eggs, \$6. Fine pure-bred range stock, \$6 per hundred. Baby chicks. Send for Catalog. W. R. Huston, Red Specialist, Americus, Kan.

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R. C. BUFF WYANDOTTE EGGS, \$1.50 for fifteen. G. G. Wright, Langdon, Kan.

WHITE WYANDOTTE EGGS, \$1 PER 15. Martin Fishel strains. Fred Watts, Havensville, Kansas.

WHITE WYANDOTTE EGGS, \$1, FIFTEEN; \$5 hundred. Mrs. Geo. Dewale, Lyndon, Kansas.

ROSE COMB WHITE WYANDOTTE EGGS \$4 per hundred; farm range. Bertha Rogers, Route 6, Garnett, Kansas.

WHITE WYANDOTTES—EGGS FROM choice stock, \$1.50, thirty; \$5, hundred. Mrs. Will Bechtel, Holton, Kansas.

COLUMBIAN WYANDOTTE EGGS—FIFTEEN, \$1.50; hundred, \$7. Miss Etta Foreman, Belvue, Kansas.

SILVER-LACED WYANDOTTE EGGS, \$1.25 per fifteen; \$3 per fifty; \$5 per hundred. Mrs. H. R. Young, Stella, Neb.

ROSE COMB WHITE WYANDOTTE eggs, per fifteen, \$1; one hundred, \$4. H. A. Ritter, Route 2, Kiowa, Kansas.

EGGS FOR SALE FROM PURE WHITE Wyandottes, \$4 per hundred. Mrs. D. J. White, Clements, Kansas.

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EGGS—SILVER LACED WYANDOTTES, fifteen, \$1.25; fifty, \$3.50. Rouen and Buff Orpington duck eggs, twelve, \$1.50. Fred Kucera, Clarkson, Neb.

SHUFF'S "BEAUTIFUL" SILVER Wyandottes. Eggs—fifteen, \$1.50; fifty, \$3.50; hundred, \$6. Baby chicks. Mrs. Edwin Shuff, Plevna, Kansas.

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SILVER WYANDOTTES. YES, I AM still selling Silvers. Have some good cockerels left. Eggs in season. Prices reasonable. Write me. M. R. Caldwell, Broughton, Kansas.

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MACK'S SINGLE COMB REDS—FINEST quality. Best layers. Dark red. Large size. Eggs, chicks. Write H. E. McLellan, Kearney, Nebraska.

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TIP TOP ROSE COMB BROWN LEGHORN EGGS. J. E. Wright, Wilmore, Kan.

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BUFF ORPINGTON EGGS FROM MY Des Moines, Kansas City, Topeka, St. Joseph and Omaha winners. H. T. Farrar, Axtell, Kansas.

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BUCKNELL'S BIG BLACK LANGSHANS—Bigger and better than ever. Eggs at the same old price, \$1 for fifteen, \$5 for 100. Postage or express prepaid. R. E. Bucknell, Hardy, Nebraska.

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BOURBON RED TURKEY EGGS, \$2.50 per eleven. Fred Watts, Havensville, Kan.

BOURBON RED TURKEYS—EGGS, \$2.50, eleven. Mrs. J. E. Bundy, Goodrich, Kansas.

WHITE HOLLAND TURKEYS, SINGLE Comb. White Leghorns, Single Comb Buff Orpington eggs. Baby chicks. Mrs. S. A. Warren, Reger, Mo.

MAMMOTH WHITE HOLLAND TUR- keys—Eggs, \$2.50 per eleven. Let us book your order early. Mrs. Roy Davisson, Sabetha, Kansas.

FEATURING THE MUCH WANTED "Goldbank" Mammoth Bronze turkeys. Eggs, \$1 each after April 1. Will book orders. Mrs. Iver Christenson, Jamestown, Kansas.

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TWENTY VARIETIES POULTRY, EGGS, \$1.50 setting. Royal Poultry Yards, Coffeyville, Kansas.

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EGGS—S. C. BLUE ANDALUSIANS, BLUE Orpingtons, Buff Leghorns, Buff Orpington ducks, Bourbon Red turkeys. Circular. John A. Huber, La Crosse, Kansas.

EGGS FROM EXTRA GOOD BOURBON Reds, \$3 for eleven. Silver Laced Wyandotte eggs, \$1 for fifteen. Julia Haynes, McDonald, Kansas.

ALL VARIETIES LAND AND WATER fowls, imported stock. Winners of thousands of prizes. List free. Rose Lawn Poultry Farm, Beaver Crossing, Nebraska.

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EGGS FROM PURE-BRED PRIZE WIN- ning Bourbon Red turkeys, Black Langshans, C. R. L. Reds, White and Black Langshans, Anconas and Light Brahmas. Write for mailing list. Mr. Henry Gillen, Route No. 1, Osborne, Kansas.

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FOR SALE, EGGS—EGGS FROM PURE- bred, and cockerels, turkeys, geese, eight kinds of ducks, pearl and white guineas, bantams, Barred, White and Buff Rocks, Rhode Island Reds, Houdans, Hamburgs, Games, Langshans, Minorcas, Brahmas, Cochins, Buff and White Orpingtons, Buff and Silver Laced Wyandottes, Leghorns, Hares, Rabbits, Guinea Pigs, Dogs, Fancy Pigeons. Write wants. Free circular. D. L. Bruen, Platte Center, Neb.

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W. T. McBride, of Parker, Kansas, sold thirty head of March and April Duroc-Jersey gilts on March 15 for an average of \$81.65. Nothing sold high. The top price, \$77, was paid for No. 27, which went to J. O. Stulp, Hartford, Kansas. A number of breeders from Missouri, Kansas, and Oklahoma, were present. J. E. Jones, of Liberty, Missouri, purchased four year of valuable gilts for herd material. The sale was a quick, snappy one, and the prices received were very satisfactory to Mr. McBride.

Public Sale of Registered Holsteins at Newton, Kansas SATURDAY, APRIL 7, 1917

The day following the meeting of the State Holstein Friesian Association



FANCHER FARM MAXIE

SIXTY CHOICE HOLSTEINS

This offering selected at a sacrifice from the herds of Dr. Axtell, of Newton, Kansas; Dr. Schuyler Nichols, of Herington, Kansas, and W. H. Mott, Herington, Kansas. The offering will consist of

- 30 COWS, MOST OF THEM NEAR TO FRESHENING
- 12 HEAD OF TWO-YEAR-OLDS TO FRESHEN SOON
- 12 HEAD OF YEARLINGS AND COMING TWO-YEAR-OLD HEIFERS
- 3 BULLS OF SERVICEABLE AGE
- SEVERAL CALVES, BOTH MALE AND FEMALE, Sired BY CANARY BUTTER BOY KING.

This offering consists of good individuals of the large square kind. All over six months of age tuberculin tested. This sale will be held in the pavilion at the Dr. Axtell Dairy Farm, adjoining the City of Newton, on April 7, the day following the meeting of the State Holstein-Friesian Association. For catalog or information address

W. H. Mott, Sales Manager, Herington, Kan.

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15 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned. Special prices for fall and winter sales. Fifteen good jennets for sale. Come and see me.

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**PERCHERONS—BELGIANS**

Imported and home-bred 4 and 5 yr. old stallions, ton and heavier, 3 yr. olds, 2 yr. olds, yearlings. Produce of 62 imported mares and noted prize winning imported sires. Farmers' prices. Fred Chandler, R. 7, Chariton, Iowa. (Above Kansas City.)

Home-Bred Draft Stallions, your choice \$500 with the exception of two. Also mares for sale. A. Latimer Wilson, Creston, Iowa

40 Head Percheron Stallions - 40

Jacks and Jennets - 40

Two to six years old, heavy bone, right in every way. Imported Spanish jack, weight 1,300 pounds, at head of jennet herd. Come and see us. We mean business. Prices reasonable.

J. P. & M. H. MALONE

CHASS - KANSAS

Home-Bred Draft Stallions, your choice \$500 with the exception of two. Also mares for sale. A. Latimer Wilson, Creston, Iowa

40 Head Percheron Stallions - 40

Jacks and Jennets - 40

Two to six years old, heavy bone, right in every way. Imported Spanish jack, weight 1,300 pounds, at head of jennet herd. Come and see us. We mean business. Prices reasonable.

J. P. & M. H. MALONE

CHASS - KANSAS

Barn Full of Percheron Stallions and Mares. Twenty-five mature and aged jacks. Priced to sell. AL. E. SMITH, Lawrence, Kansas.

REGISTERED PERCHERONS

Yearling and two-year-olds, both sexes. Good breeding and individuals grown in a way to make useful animals. Would trade filley for Shorthorn bull good enough to head herd of registered cows.

GEO. S. APP, Route 2, ARCHIE, MISSOURI

FOUR BIG JACKS FOR SALE

Also three jennets. Jacks are all blacks, 4 and 5 years old, 15½ to 16½ hands, standard. All grandsons of Limestone Mammoth. Barns 3 blocks north of depot.

F. W. POOS - POTTER, KANSAS

POLAND CHINAS**DEMING RANCH POLANDS**

Twenty strictly high class boars, bred the same as our grand champion sow and other prize winners. They are herd headers. Also gilts and bred sows and 150 fall pigs. All immune.

H. O. Shelden, Herdsman Oswego, Kansas

TOWNVIEW FARM

Big-Type Poland Chinas.

For Sale—25 summer and fall gilts, sired by Miller's Sioux Chief and out of Lady Longfellow. Bred for late spring litters. Also 25 summer boars. Come and see my herd.

C. E. GREENE - PEABODY, KANSAS

ARKELL'S BIG POLANDS

Fall boars sired by Longfellow Again and Chief Big Bone, out of choice big-type sows. Choice individuals. Some herd header prospects.

JAS. ARKELL, JUNCTION CITY, KANSAS

OLD ORIGINAL SPOTTED POLANDS

Have only a few of last fall's litters left.

Write your wants to

THE CEDAR ROW STOCK FARM

A. S. Alexander, Prop. R. 2, Burlington, Kan.

PROFITABLE TYPE POLANDS

Big-type Poland Chinas, as good as grows.

You prove it at my expense. Breeding stock for sale at all times.

L. C. WALBRIDGE - RUSSELL, KANSAS

LANGFORD'S SPOTTED POLANDS

Boars—Serviceable age, guaranteed to please. Breeding stock, both sexes.

T. T. LANGFORD & SONS, Jamesport, Mo.

PUBLIC SALE OF HOLSTEIN AND JERSEY SPRINGERS AND HEIFERS



At Oakwood Stock Farm, Salina, Kan., April 9

Two Hundred Head of Carefully Selected High Grade Holstein Springers and Heifers.

We will sell on the above date 200 head of Holstein cows and heifers, consisting of forty head of high grade springer cows of excellent type and conformation. If you want good producers, these cows will suit you.

One hundred head of three-year-old springer heifers, large and good type. These heifers are excellent quality and will make splendid cows.

Sixty head of coming two-year-old heifers of excellent type and quality.

Six head of registered Holstein bulls.

Twenty head of high grade two-year-old Jersey heifers, due to freshen April 1 to 15. These Jerseys are extra good quality. They will make good cows and will suit anyone wanting Jerseys.

All cattle offered for sale have been tuberculin tested. Salina is on the Union Pacific, Rock Island, Santa Fe and Missouri Pacific railroads, which offer excellent shipping facilities to any part of the state. If you want dairy stock, you cannot afford to miss this sale. Free transportation from Salina to Oakwood Stock Farm, four miles north.

M. E. PECK & SON, SALINA, KANSAS



HOLSTEIN CATTLE.

CLYDE GIROD, At the Farm

HOLSTEIN-FRIESIAN FARM, TOWANDA, KANSAS

Breeders of pure-bred Holsteins. Special attractions in choice young bulls ready for service, with fashionable breeding. Write for pedigrees and prices. We maintain a breeding herd of pure-bred females and offer a grand lot of young springing heifers and cows, a number with A. B. O. records at prices within reason.

IT WILL PAY YOU TO SEE OUR OFFERING
Of choice extra high grade young cows and heifers, all springers in calf to pure-bred sires; large developed females, good udders, well marked and the right dairy type at prices that will challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone.

GIROD & ROBISON

HOLSTEIN CATTLE.

F. W. ROBISON, Cashier Towanda State Bank

HOLSTEIN-FRIESIAN FARM, TOWANDA, KANSAS

Breeders of pure-bred Holsteins. Special attractions in choice young bulls ready for service, with fashionable breeding. Write for pedigrees and prices. We maintain a breeding herd of pure-bred females and offer a grand lot of young springing heifers and cows, a number with A. B. O. records at prices within reason.

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GIROD & ROBISON

MAURER'S HOLSTEIN FARM

Is offering another choice lot of young pure-bred cows and springing heifers, including several granddaughters of Pontiac Korndyke. Also some registered yearling heifers, and a fine lot of large, heavy milking, high grade cows, and both pure-bred and grade calves of either sex. Write or call.

T. E. MAURER & CO., EMPORIA, KANSAS.

Pure-Bred Holstein Calves

Ten heifer calves from one to four months old. Also a few bull calves for sale. All these are nicely marked, good individuals, and from a 31-pound sire. Write for prices.

E. J. STEARNS, Route 1, ELKHORN, WIS.

CORYDALE FARM HERD

Offers for sale four bull calves two to four months, sired by Jewel Paul Butter Boy 94245. These calves are all nicely marked and from good milkers.

L. F. CORY & SON, BELLEVILLE, KAN.

Butter Bred Holsteins

Buy your next bull calf from a herd that won the butter test over all breeds.

J. P. MAST - SCRANTON, KANSAS

LILAC DAIRY FARM

Route No. 2, Topeka, Kansas.

BREEDERS OF PURE-BRED HOLSTEINS
Bulls from A. R. O. cows, all ages, for sale.

REGIER'S HOLSTEINS

Holstein-Friesian A. R. O. bulls ready for service. World's record blood flows in their veins.

G. REGIER & SONS, WHITEWATER, KAN.

25 - HOLSTEINS - 25

Fresh and heavy springing. Young grade cows extra well bred, also heifer calves.

GLEN C. SMITH - SEDGWICK, KAN.

Braeburn Holsteins A. R. O. BULL CALVES

With De Kol-Netherland-Korndyke main blood lines, and Johanna, Walker, King Segis out-crosses.

H. B. COWLES - TOPEKA, KANSAS

NEMAH VALLEY HOLSTEIN FARM

Choice yearling bulls and bull calves. World's record blood lines. Price reasonable. We invite inspection of our herd.

H. D. BURGER, Route 2, SENECA, KANSAS

REGISTERED HOLSTEINS

We want to cut down our herd. Will sell ten or twelve choice cows, most of them young, also a few heifers.

M. E. MOORE & CO. - CAMERON, MO.

CEDAR LANE HOLSTEIN HERD

We are making very low prices on a few young bull calves. It will pay you to buy them of us while young. Sired by our 29.4-pound grandson of Pontiac Korndyke.

T. M. EWING, INDEPENDENCE, KANSAS

32 1-2 POUND BREEDING

Bull calves from A. R. O. dams, sired by Beauty Pieterie Prince, a 32.52-pound bull. Good individuals, splendidly marked. Priced right.

M. E. GUNDERSON & SONS, Route 25, Oconomowoc, Wisconsin.

HOLSTEIN CATTLE

We offer for sale 200 choice, high grade Holstein cows, heifers and service bulls of various ages; well marked and in good condition. Also can furnish a few choice, beautifully marked, 15/16ths pure-bred heifer or male calves, 1 to 2 weeks old, out of heavy milk-producing dams, at \$15 each, crated f. o. b. cars. First draft takes them. Write

W. C. KENTON & SONS, ELGIN, ILLINOIS

GOLDEN BELT HOLSTEIN HERD

Herd headed by Sir Korndyke Bess Hello No. 166946, the long distance sire. His dam, grand dam and dam's two sisters average better than 1,200 pounds butter in one year. Young bulls of serviceable age for sale.

W. E. BENTLEY, MANHATTAN, KANSAS

HOLSTEIN CALVES.

Very high grade heifer calves, five weeks old, nicely marked, \$20 each delivered to your station. We can supply you with registered or high grade Holsteins, any age or number, at reasonable prices. Clover Valley Holstein Farm, Whitewater, Wis.

Look to the future.

Tredlee Bulls (Holsteins)

Kingman, Kansas

CEDAR LAWN FARMS

C. A. Schroeder & Sons, Props.

Forty years of registered Holstein breeding, not dealing. Birthplace of 40-pound cow, Johanna DeKol Van Beers. State wants and get delivered prices on young bulls.

W. C. SCHROEDER - WEST BEND, WIS.

JERSEY CATTLE.

Sweet Spring Stock Ranch and Jersey Cream Dairy

The homes of High Class Registered Jersey Cattle

Stock for sale at all times of very best blood lines.

D. S. MAYHEW, Prop. - MONETT, MO.

REDHURST JERSEYS

Grandsons of Golden Jolly and Noble of Oaklands for sale. Also a few fancy cows and heifers of same breeding. Write.

REDMAN & SON - TIPTON, MISSOURI

120 Jersey Cows and Heifers

Pure-bred and high grade. Forty bred yearlings, superior individuals, all from profitable dams, now for sale.

J. W. BERRY & SON, Jewell City, Kansas

DORNWOOD FARM JERSEYS

Some richly bred young Jersey bulls. Pedigrees and prices on request.

DORNWOOD FARM - TOPEKA, KANSAS

Registered Jersey Bulls, butter-bred, from high producing cows. Photo furnished. Maxwell's Jersey Dairy, Route 2, Topeka, Kan.

LINSCOTT JERSEYS

Dispersal Sale, May 31

R. J. LINSCOTT - HOLTON, KAN.

YOUNG'S REGISTERED JERSEYS

Won 150 prizes at six leading state fairs in 1916. Am offering cows, heifers and bulls, over 100 head of the best milk and butter strains. Write at once to

HAL C. YOUNG - LINCOLN, NEB.

GALLOWAY CATTLE.

GALLOWAY BULLS

SIXTY yearling and two-year-old bulls, strong and rugged; farmer bulls, have been range-grown. Will price a few cows and heifers.

E. E. FRIZELL, Frizell, Pawnee Co., Kansas

Registered Kentucky Jacks



I have shipped from my home, Poplar Plains, Kentucky, eighteen head of jacks to Newton, Kansas, and they are for sale privately. This is a good load of jacks, with lots of bone and size, with all the quality and finish you would ever see in a load of jacks. Ages from two to eight years; height from 14½ hands to 16 hands standard, and good performers.

I have shipped jacks to Kansas since 1879 and I do not believe I ever shipped a better load.

Any one wanting a good jack, call and see me at Welsh's Transfer Barn, two blocks from Santa Fe Depot, one block from Interurban. Come and see me.

E. P. MAGGARD

Successor to Saunders & Maggard

NEWTON, KAN.

GUERNSEY CATTLE.

GUERNSEY CATTLE.



THIS GRADE GUERNSEY COW
in Illinois produced in one month 93.9 lbs. of butter fat, equivalent to 109.5 lbs. butter—over 3½ lbs. daily—and 1566.1 lbs. milk testing 6% fat.

GUERNSEYS are the MOST ECONOMICAL PRODUCERS OF BUTTER FAT

Write for a free breeder's calendar and our beautiful booklets
THE AMERICAN GUERNSEY CATTLE CLUB
BOX R. K., PETERBORO, N. H.

HEREFORD CATTLE.

HEREFORD CATTLE.

Walnut Breeding Farms



Where real Anxiety 4th blood is found in abundance. The home of Concentrate 289644, a double Beau Brummel. Young stock always on hand for sale from this noted sire. Five extra herd headers on hand at reasonable price, blood lines considered. Twenty choice young bulls for sale. Come and see my herd. Satisfaction guaranteed. Also a few Berkshire pigs.

LEON A. WAITE, R. F. D. 8, WINFIELD, KAN.

RED POLLED CATTLE.

Red Polled Cattle

A few 1916 fall bull calves for sale. Also a few cows and heifers.

AULD BROS. - FRANKFORT, KANSAS

FOR SALE

Red Polled Cattle

Three cows. Nine yearling heifers. Two yearling bulls. One two-year-old bull.

A. E. WHITZEL - STERLING, KANSAS

DUROC JERSEYS.

DUROC JERSEY GILTS

We have fifteen well bred Duroc gilts, priced for immediate sale.

C. D. WOOD & SONS, ELMDALE, KANSAS

One of the good Poland China sales of the season was held by Olivier & Sons of Danville, Kansas, February 23. Fifty bred sows sold for an average of \$101. The top price was \$300.

HEREFORDS AND PERCHERONS

Choice 2-year-old bull, weight 1,600 lbs.; extra good bull calves. One May calf, weight 600 lbs., outstanding herd header prospect. Two choice yearling Percheron stallions. Priced to sell.

M. E. GIDEON - EMMETT, KANSAS

AUCTIONEERS.

Live Stock and Farm Auctioneer

Write or wire for date. I can please you.

LAFE BURGER, WELLINGTON, KANSAS

Jas. T. McCulloch Live Stock Auctioneer. I make sales anywhere.

Write for date. **CLAY CENTER, KANSAS**

LESTER R. HAMILTON Live Stock Auctioneer

Write for terms and date. **Clarksdale, Mo.**

ANGUS CATTLE

EDGEWOOD FARM

ABERDEEN-ANGUS CATTLE

Twenty-five young bulls, also some good cows and heifers for sale. All registered.

D. J. WHITE, CLEMENTS, KANSAS

Main line of A. T. & S. F. Ry., 145 Miles West of Kansas City.

SUNFLOWER HERD 3rd ANNUAL SALE OF 160 - REGISTERED HOLSTEINS - 160

TWO DAYS SALE, APRIL 10-11, 1917



SUSAN AAGGIE RUE BURKE 133979

At 2 years, 249.3 pounds milk, 11.19 pounds butter. At 7 years, 486.3 pounds milk, 19.3 pounds butter. One A. R. O. Son. Sire, Johanna Rue Burke Sascatic 55700. Dam, Susan Aaggie Posch 88331. One of the heavy producing cows of the herd. Owned by F. J. Searle, Oskaloosa, Kansas.

I have a number of cows that have milked above 85 pounds each, one day this winter, and a number that have produced and will produce from 15,000 to over 20,000 pounds during this lactation period of less than 365 days.

Big, strong, healthy, fine individuals with the right kind of udders, the kind everybody likes. Among our consignments will be a large number of daughters of that great sire, King Segis Pontiac, together with a few of his good sons.

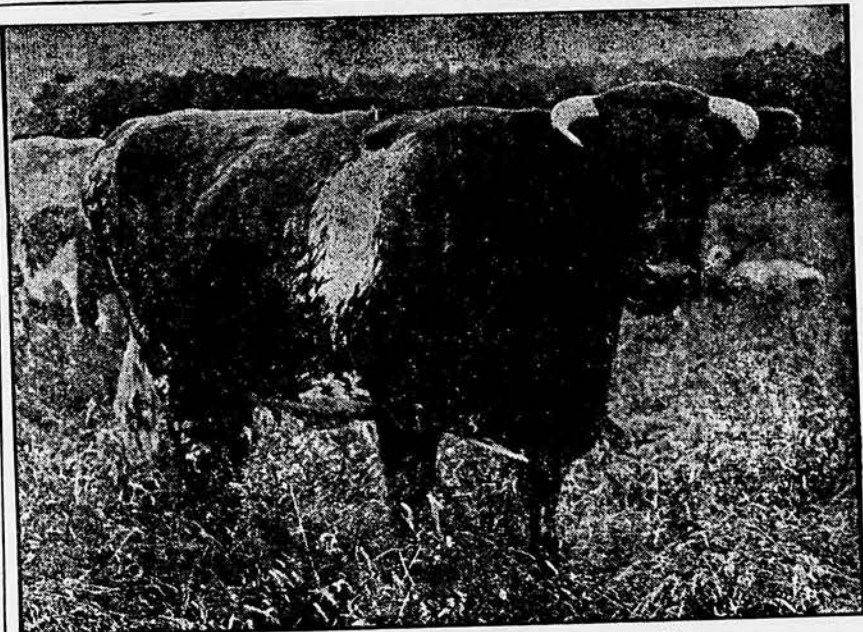
Ten daughters of King Frontier Pontiac (a son of King of the Pontiacs from a 28-pound show cow). King Frontier Pontiac will also be sold. There will be many other cows and heifers sired by bulls carrying the best blood of the breed, and from dams of equally good breeding.

Altogether 160 head of registered cattle, including two great herd sires, young herd sires, A. R. O. cows, heifers and calves. You have been wanting Holsteins, and here, on April 10 and 11, will be the place for you to procure the best there is. For information and requests for catalogs, address

F. J. SEARLE,

All cattle from outside the state will have federal test. All Kansas cattle tested by proper state authorities
AUCTIONEERS—HAEGER, KELLEY AND CREWS.

OSKALOOSA, KANSAS



Central Shorthorn Breeders Association Fourth Annual Sale of SHORTHORN CATTLE Two Days, April 4, 5, 1917

At Fine Stock Pavillion, Kansas City, Mo.
120 - HEAD OF SHORTHORNS - 120

Drafted from the best herds in the corn belt. Sixty bulls from yearlings to matured sires. Sixty cows and heifers, consisting of cows with calves at side and re-bred, heifers bred and open.

These cattle are contributed by the best breeders in the corn belt and are sired by the most popular sires known to the breed. The best lot of cattle ever consigned to our Central Shorthorn Breeders' Sale. Make your arrangements early to attend. Write today for illustrated catalog to

W. A. FORSYTHE, Sale Manager, Greenwood, Mo.

Auctioneers—R. L. Harriman, Carey M. Jones.

WALLACE'S MAMMOTH POLAND CHINA SALE

At Farm, Bunceton, Missouri, Thursday, April 12, 1917

50 - Head of Bred Sows and Gilts - 50

Forty gilts by Big Bone Model, A Monarch, and Grand Mammoth, and most all bred to the great King Joe for April and May litters. Ten tried brood sows bred to Big Bone Model, A Monarch, and Grand Mammoth, for April and May litters.

This is a splendid offering and should attract breeders and farmers. I will also sell a few fall boars and gilts sired by King Joe. Some choice herd header prospects.

Please send for nicely illustrated catalog and arrange to attend my sale. O. W. Devine will represent Kansas Farmer at sale. Farmers and breeders are especially invited to attend. For catalog write to

W. B. WALLACE,



A GROUP OF THE SALE OFFERING

BUNCETON, MISSOURI



The Farmer

knows that country conditions require tires that are **GOOD** tires. That is why he insists on getting **United States Tires**. Tough, resilient, giving more mileage-per-dollar and better service, the five famous brands of **United States Tires** are the ideal tires for the farmer's use. Choose which tread best meets your needs, and order **TO-DAY**.

Insist on getting United States Tires.

United States Tires Are Good Tires

'Nobby' 'Chain' 'Usco' 'Royal Cord' 'Plain'

A tire for every need of price and use

United States Tire Company