

KANSAS FARMER

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The Present Status of the Chinch Bug

Where It Is and What It Is Doing

By T. J. HEADLEE

Such of the chinch bugs as survived the winter and escaped the spring firing are now feeding and egg-laying in wheat, oats, barley, grass fields, and, in exceptional cases, in cornfields. Here they are sucking the sap that rightfully belongs to the plants and endeavoring by every means in their power to raise a crop of young bugs at the expense of our grain and forage. Here they will stay until food fails or until the new brood is well started and reproduction is complete.

Fortunately for us, the chinch bug has powerful natural enemies which habitually destroy a very large percentage of its total number.

CHINCH BUG FUNGUS.

The most active and efficient of these natural enemies is the chinch-bug fungus (*Sporotrichum globuliferum*). This fungus has been recognized as active in the destruction of chinch bugs in this and in neighboring states by every one who has carefully studied the chinch-bug problem. During the last three years we have invariably found it associated with every marked destruction of the bugs through natural causes whether during spring, summer or fall.

The fact of its efficiency is, however, no better established than is the fact that this efficiency depends absolutely upon the presence of a sufficient supply of moisture and favorable conditions of temperature. With plenty of rain, ordinary spring temperatures, and a plentiful supply of bugs, the disease will break out with great fury and sweep away immense numbers, but in dry weather or in winter temperatures the fungus will make no progress and will not check the bugs appreciably. During the past three years many instances of failure of the chinch bug fungus to destroy bugs in dry or cold weather have been observed throughout that part of Kansas which suffers from their work.

It is, moreover, the experience of those who have studied the chinch bug problem in the past that this fungus is very generally distributed in nature and that it springs up wherever conditions of weather and bugs become favorable. During the present spring Mr. J. B. Parker, Assistant Entomologist at the Agricultural College, has been able to find and to show the farmers this fungus at work in wheat fields where the fungus was not introduced, from Sumner county in the south to Phillips county in the north.

In view of the fact that, although this chinch bug fungus may be present in the field in large amount, it will not check the bugs in dry weather or in low temperatures, it is a dangerous practice for a man to place his trust in artificial introduction of the disease and on that account to neglect measures that promise relief.

WHAT IS BEFORE US.

The chinch bug fungus is now destroying the bugs in immense numbers and if the wet weather should continue far enough into the summer, so many may perish that the damage done by those which remain will be negligible. On the other hand, if the bugs are not destroyed, in about one month the partly grown bugs, being unable to obtain sap from the ripen-

ing plants, will migrate on foot into adjacent fields of succulent corn, Kafir corn, broom corn, cane, and millet. If the bugs are abundant this migration means at least a partial and possibly a complete loss of the crop attacked. In some parts of the state, especially where bug-infested wheat has been listed to corn, the corn is already infested and will perish unless a very favorable season enables it to grow in spite of these insects.

WHAT SHOULD BE DONE.

In preparation for this general movement the grower should sow at once a ten-foot-wide strip of millet, cane, or corn, broadcast between his corn field and adjoining small grain, or infested grass lands. This growth will serve to hold the bugs after migration begins until the farmer notices that they are moving. As soon as he finds that the bugs are migrating, he should construct a dust or tar-line barrier between the trap sowing and corn field to be protected. After the bugs have collected in the trap sowing it should be mowed, allowed

to lie until dry enough, and then fired. Under favorable conditions this will destroy a large percentage of the bugs. The barrier must then be constantly attended to until migration ceases.

If it should happen that the farmer for any reason does not have his trap crop and the bugs are in the first few rows of corn before he knows it, he should cut two or three rows between those that are infested and the rest of the field, construct a barrier, and spray the infested rows with pure kerosene, destroying both bugs and corn. The bugs may be destroyed by the use of kerosene emulsion without destroying the corn, if the grower can find time to make it up. Such bugs as escape this treatment should be caught by the barrier.

HOW TO CONSTRUCT A BARRIER.

In general, there are two types of barriers—one, the dust line, especially useful in dry weather, and the other, the petroleum or tar line, specially fitted for wet weather. The best type of dust barrier may be constructed as follows: Plow a strip 6

to 10 feet wide between the infested field and the field to be protected; thoroughly and deeply pulverize the strip with a disk harrow; then reduce the surface to dust by dragging a piece of brush or other instrument over it; drag a short log eight or ten inches in diameter, or a triangular trough, made by nailing two boards together and loading with stone, lengthwise along the dusty strip as near as practicable to the infested side until a deep furrow has been made; dress up the sides with a hoe so that no passageways may be left; dig post-holes at least twelve inches deep in the bottom of this furrow at intervals of twenty feet. The bugs will collect in these holes, where they may be destroyed by pouring kerosene upon them. After a time the slope of the furrow-wall will be lessened by the dragging down of the dust particles under the many persistent feet, and a new furrow should be constructed in the same way, parallel to the old. This procedure should be continued as long as the bugs keep coming. Another type of dust-line barrier may be constructed by plowing a deep lister-furrow between the infested field and the one to be protected and reducing the sides and bottom of the furrow to a fine dust by dragging a heavy piece of brush through it repeatedly. Post-holes should, of course, be dug in the bottom of this, as in the other type of dust-barrier furrow.

The dust barrier will work perfectly so long as the ground can be kept thoroughly dusty, but its usefulness is destroyed by even a slight rain, which hardens the surface and allows the chinch bugs to pass over without difficulty.

The petroleum or coal-tar barrier may be constructed as follows: Prepare a hard, smooth surface in one of two ways: (1) by dragging a heavily loaded plank over a strip between the infested field and the one to be protected; (2) by plowing a back furrow and shaping it into a smooth-walled ridge with a furrow along its summit by running over it an inverted convex-bottomed trough of proper size; pour along the smooth surface so constructed a line of coal tar or crude petroleum about three-fourths of an inch wide, and keep this fresh so that the bugs can find no place to cross; dig post-holes at intervals of twenty feet along the infested side of the line. The bugs will not cross the line, but will collect in the holes, where they may be destroyed by pouring kerosene oil upon them. A man or boy can guard 80 to 100 rods of such a barrier, but he must be in the field early and late.

There is much work connected with the use of such methods against the migrating chinch bug, but, in view of the fact that the use or failure to make use of them may mean the difference between a crop and a failure, the attempt is indeed worth while. Every farmer in the infested district, whose corn, Kafir corn, broom corn, cane, and millet is likely to be injured seriously by migrating chinch bugs coming from wheat, oats, barley, or grass, should provide himself with plenty of coal tar or crude petroleum and a knapsack or barrel spray pump with hose and nozzles.

(Continued on Page 5.)



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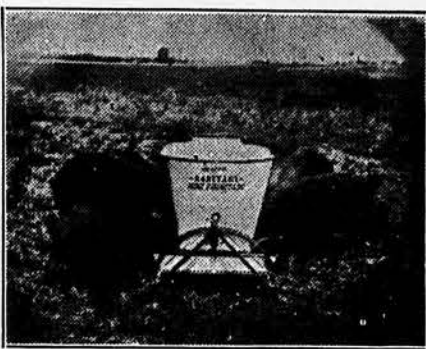
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two barrels, the other holds four bar-



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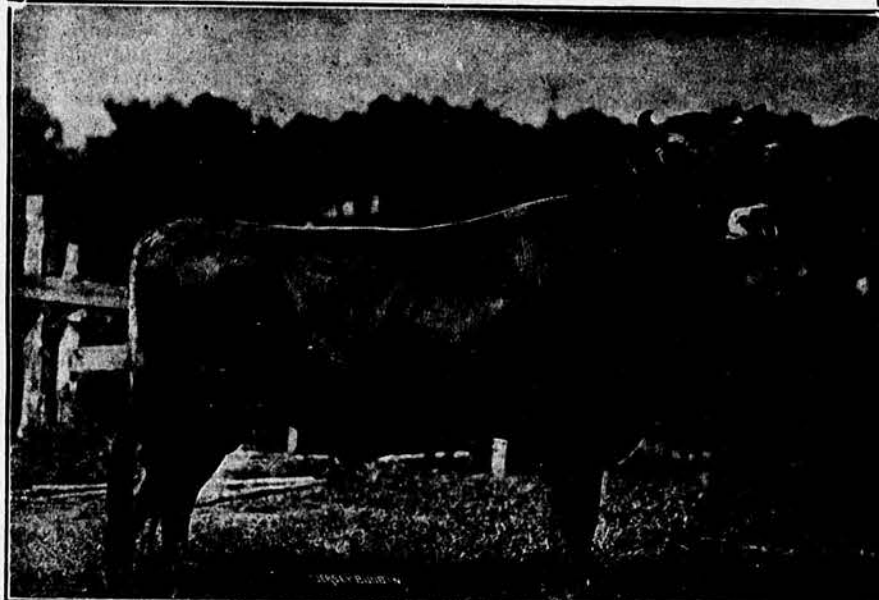
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BEATRICE STOCKWELL 79712 by the \$11,000 **STOCKWELL** out of the
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The females of the offering are bred to the above named bulls and
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THE BLOOD LINES REPRESENTED

It takes a large catalog to show the blood lines represented and it
will include almost every family of the breed, and a large number of the
best families to be obtained. They are families that have made good in
both show yard and at the pail on the Island of Jersey, England, Amer-
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buyer makes the price.

Probably sixty sires are represented in this sale offering by choice
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KANSAS FARMER

EDITORIAL



SUMMER COURSES AT K. S. A. C.

The demand this year for teachers of agriculture and also for teachers of manual training has been so great that the authorities of the Kansas Agricultural College have found it necessary to offer a summer course primarily for teachers, but open to others, these courses to include as majors agriculture and wood work. As minors the college will offer a one-hour course in general pedagogy and in the theory of vocational education, and a one-hour course in botany and physics, these subjects being prepared primarily for teachers who will also teach agriculture.

The course will open June 14 and will continue for six weeks and will include lectures and laboratory work in soils, farm crops, horticulture, entomology; animal husbandry, dairying, poultry; wood work six hours per day or two hours per day. Those who wish to take wood work as a major will be given six hours' instruction six days per week. Those who wish to take agriculture as a major may have six hours in lectures and laboratory work, one hour for education and one hour for physics and botany, or they may take four hours per day in agriculture and two hours in woodwork.

The work to be offered this summer will be extremely practical and is intended primarily to fit men for teaching agriculture and manual training next year. It has been decided, however, to offer for the summer of 1911 very comprehensive courses for six weeks in agriculture, manual training and home economics, each course to be made a unit with a great variety of subjects, each to be taken very thoroughly and upon which it will be proper to ask for and to receive college credit. No credit can be given for work to be offered this year.

The Summer School will open on Tuesday, June 14 (Commencement week). Regular work will be offered every day that week, however, except Thursday, when adjournment will be made for the regular Commencement exercises.

A teachers' course in domestic science and art is being offered now, beginning this week and continuing for ten weeks. Teachers may enter as late as May 24 for this course.

More detailed information for the Summer School may be had by addressing the president at Manhattan.

ABOUT FARM ADVERTISING.

Advertising is a part, and a most important part, of modern business life. Its purpose is to enlarge the business of the seller by increasing the number of buyers or of possible buyers. Its purpose is also to give information to those in need of articles which they do not know where to secure. It is an enlargement of the show window by which the public is attracted and at the same time a reminder of the fact that certain goods may be had at a certain place. The farmer finds that something about the place is needed and he goes to the store for it. If it is a staple article he probably finds it. If it is not, he turns to the advertising columns of his favorite paper for the needed information. He values the advertising pages of this paper and has confidence in the advertisers. He knows that the publisher of his paper cannot afford to admit questionable advertising matter to his columns. There is too much at stake. He scans the reliability of the advertiser and uses every effort to protect his readers. This matter of referring to the advertising pages of the family paper becomes as much a matter of course as does the reading of the other pages. A paper with much advertising matter is valuable because of this fact.

On the other hand, when the farmer has something to sell he also must advertise. He may do this in many ways, by offering his goods at the store or elevator, by notices posted on the telephone poles, by telling his neighbors or by using the advertising columns of his paper.

If what he has for sale is of considerable value, like breeding stock for instance, the use of the advertising columns of the farm paper will prove to be much the cheapest and most efficient method. By this means he has immediate access to

thousands of possible buyers while by the others he can only reach dozens, or at most, hundreds, and they not all interested. The money expended in this kind of advertising is always an investment which brings ample returns when it is judiciously handled. Advertising is a part of the business of breeding pure bred live stock and should be provided for just as are the feed and care of the animals.

Advertising farm products in farm papers has other advantages. It brings quick results and it brings very much better prices. Good advertising never costs anything and it pays.

Perhaps there never was a time when the interest in the silo was so great as it now is in Kansas. This interest does not come entirely to dairy farmers nor is it confined to the eastern part of the state. Dairy farmers have demonstrated its value for their use and this has been so great in giving their stock a nutritious and succulent feed in the winter as well as in the dry months, as well as in enabling them to save the entire corn crop instead of wasting about 40 per cent of its value, as is commonly done when the ears only are gathered, that other farmers who have stock are watching the silo. In rough or sandy portions of the state where there is pasture with but little plow land the silo is a boon. In the dryer sections where the corn is not always a sure crop it is of high value while in saving the first crop of alfalfa it will soon pay for itself. Corn silage with alfalfa hay is very nearly an ideal ration and will make beef as well as milk.

Prof. F. A. Waugh, for many years at the head of the horticultural department of the Massachusetts Agricultural College and the author of a number of highly valuable books, is a graduate of the Kansas Agricultural College and a McPherson county boy. He will spend the summer in Europe and during his absence Prof. F. C. Sears, also a graduate of the Kansas Agricultural College, will be acting head of that department. Back east they know where to come for good men.

The Senate Committee on Postoffices and Postroads is beginning an investigation into the methods of the postal department and, if this is thoroughly and fearlessly done, it may be expected to bring forth some interesting if not startling results. The matter began through the recommendation of President Taft that an increased postal rate be made on second class matter in order that the postal deficit might be covered. A storm of protest from all parts of

the country caused inquiry to be begun and already the archaic and unbusinesslike methods of the postal department stand partially revealed.

Nearly one-half of the manufactures exported from the United States go to British territory and form more than one-third of the total exports to that territory; and this despite the fact that Great Britain is the greatest manufacturing country of Europe and the world's greatest exporter of manufactures.

The septic tank for the disposal of sewage has been found to be the most practical, the most efficient and the most healthful method yet discovered for cities not located near large streams and for farm and suburban homes. It has come into very general use as the best method of solving a very perplexing problem. Now that it is well established in public favor there seems to be a temptation to make "easy money" out of it, and it has been made the subject of letters patent on which the holders of this patent are now claiming royalties. The matter was a subject of a recent conference between the representatives of about 20 Kansas towns and the engineering department of the Kansas University.

Because the state legislature failed of its duty in making the necessary appropriations for increased dormitory facilities there are now about 200 students of the Texas State Agricultural College living in tents on the college campus. This will probably not hurt those Texas boys any but it serves to point out the ridiculous system existing in all states, by which the great educational institutions are hampered and often crippled by being compelled to depend upon a lot of politicians for their means of existence and growth. Such institutions should be taken entirely out of politics and made independent either by means of a regular tax collected for that one purpose or else by means of an endowment fund of sufficient proportions to provide for the present needs and future development.

A writer suggests that if Uncle Sam would expend the price of one battleship each year in placing immigrants on the farm it would go a long way towards solving the problems of a scarcity of farm help and the high cost of living. Maybe so! But did he stop to think that our immigrants are rarely given an opportunity to see any part of this country that is not included in the lower east side of New York and other cities while our school systems have taught commercialism, which leads towards the city, ever since they were founded? We

do all we can to keep immigrants in the cities and to lure your farm bred boys and girls there as well.

One of the marked features of farm policy of late years has been a turning from live stock to grain farming and in this may be found one of the reasons that have been assigned for the increased cost of living. General grain farming and restricted live stock production could have no quicker result than in increase in the price of meats because of a scarcity of meat producing animals. But it had another important result in the decreasing price of grain because of lessened demands for feeding. Meantime the soil has been suffering.

It has been repeatedly demonstrated that the production of a crop of grain takes a certain quantity of organic matter and chemical elements from the soil, and unless these are restored in the form of manure from live stock or the organic matter left in the soil by systematic crop rotation, production will decrease until the cultivation of the land becomes unprofitable. In many instances rich virgin soil has become so exhausted of plant food by successive grain farming that farms have been abandoned as worn out and unprofitable for agriculture.

The supply of foodstuffs in Germany has only been kept up to the maximum figures by intensive agriculture, the employment of modern machinery, scientific fertilization and the employment of millions of female farm hands. The German workman pays as much as the American for his food, except potatoes, milk and vegetables.

A very simple device consisting of a glass chamber fitted with electrodes at one end and a small quantity of mercury will, when exhausted of air, serve to convert an alternating into a direct current of electricity. This will serve to do away with the present cumbersome and expensive transformers and may be soon placed upon the market as the inventor's rights have at last been determined after a lawsuit of about six years.

The Mexican National Railway has lately closed a contract for twelve million cross ties with a local company. This is said to be the largest contract of the kind ever made by a railroad but as the ties are to be delivered within ten years it is not likely that it will result in the denuding of any great forest area.

Every country in the world has improved its soil productions with live stock growing. The old lands of England, Denmark, Holland, France, Germany and other countries, which have been under cultivation for centuries, are largely devoted to animal husbandry. Holland and Denmark are almost exclusively employed in the dairy industry and the land is cultivated to maintain a large percentage of humus in the soil.

One of the big Canadian railroads which has a lot of land for sale is showing a degree of enterprise in its methods of disposing of it that could hardly be excelled on this side of the line. This company breaks the land and puts in the first crop. From the proceeds of this crop the settler makes his first payment on the land. This amounts to selling ready made farms, but no information has reached us as to how much the settler pays for the making.

The pen is mightier than the sword—if it is a hog pen.

Dollar for dollar the assessment for taxation purposes is much lower in the country than it is in town. By this is meant that the property owner in town pays a much higher tax on property of equal value than does the farmer. This ought to be one more good reason for fixing up the old farm home and staying in it instead of moving to town.

The Kansas Wheat Growers' Problem

By H. L. Cudney, Belpre, Kan.

The rapid increase in value of Kansas wheat land is necessitating an increase in production. When the large fields through the wheat belt of the state were to be had at ten dollars per acre the farmer realized very satisfactory profits from crops of thirteen bushels, but that yield on land worth from fifty to one hundred dollars per acre does not pay well.

When we consider the natural adaptation of our soil and climate to the production of wheat, and then compare our yields with those of other countries we are forced to conclude that there is great opportunity for improvement.

The United States stands near the bottom of the list of wheat producing nations, in yield per acre, and the average yield per acre in Kansas is below the general average of this country.

In the culture of wheat there are three factors over which the farmer has control: Methods of tillage, the fertility of the soil, and the variety and quality of the seed.

I. CULTURE.

With the wheat crop the cultivation is usually all done before sowing, inter tillage has been tried at various experiment stations but has not usually proven profitable. Thus all that is deemed necessary, as a rule, in the way of cultivation for wheat is the preparation of the seed bed.

The ideal seed bed for wheat is mellow and well pulverized to the depth the seed is to be planted, below this depth it is firm and well settled, making a good connection with the subsoil, so that the water there stored may be drawn up for the use of the young plant. The mellow soil above the seed allows sufficient circulation of air to furnish the needed oxygen; it favors the warming of the soil by the sun, and acts as a blanket to conserve the soil heat at night.

It is necessary that the deeper soil be stirred in order to promote aeration and increase its water holding capacity. The action of the air and moisture on the soil particles favors bacterial action, sets free a fresh supply of plant food, and rids the soil of the poisonous properties left by the preceding crop.

In the central and western parts of the state there are many cases where, in an average year, the yields might be increased from fifty to one hundred per cent, simply by more thorough preparation of the seed bed.

The writer has made a practice of winter pasturing wheat in Edwards county, and, with the exception of a few occasions, when the stock have been allowed to remain in the field until late in the spring, the pastured fields have yielded as well or better than adjoining fields not pastured. In 1906 a twelve acre field of wheat on my father's farm which had been grazed down close all winter with hogs produced 23 bushels of wheat per acre, while an adjoining field given the same preparation, and sowed at about the same time, produced less than twenty bushels per acre.

Listing has not proved especially successful as a method of preparing a seed bed for wheat, giving a less yield than the early or medium early plowing. Listing has not proved a cheap method during the past two years, due to the heavy summer rains that have made frequent harrowing and disking necessary in order to keep down the weeds.

The heavy rains also made it very expensive to prepare a seed bed for wheat by disking without plowing. It required eleven diskings in 1908 to prevent the growth of weeds and prepare a good seed bed by this method. Disking has also resulted in a low yield, producing the least amount of wheat and the lowest net profit of any method employed.

The experiment made by the Oklahoma Station is a fair illustration of the effect of early, medium, and late plowing on the yield of wheat in the drier climates or the drier seasons of the more humid sections. Plots were plowed on July 19, August 15, and September 11. The early plowed plot turned up moist and mellow, the medium plowed somewhat dry and lumpy, while the late plowed plot was weedy, turned up lumpy, and was dry to the full depth of plowing. Harrow-

ing, disking, and rolling were necessary to the extent that it was estimated that about eight times as much work was put on the seed bed as would have been necessary had the ground been plowed when moist. All plots were seeded September 15. On the early plowed plot, germination was prompt and growth good. On the late plowed plot, many plants suffered from lack of moisture; the following summer the crop matured later, was more seriously affected by blight, and the grain was more shriveled. The following yields were obtained:

Date of plowing.	Yield per acre.
July 19.	31.3
August 15.	23.5
September 11.	15.3

Listing has often given better results on the sandy loam soils in the western part of the Kansas wheat belt than plowing; the advantage of this method of seed bed preparation in regions of light rainfall, may be outlined as follows:

1. The cultivation of the land soon after harvest tends to conserve the moisture already in the soil.

2. The furrowed land is in good condition to catch and store the rain, and the later cultivation clears the land of weeds and volunteer wheat, and leaves a mellow soil mulch to retain the moisture already stored in the subsoil.

3. The early and continued cultivation of the soil favors the action of the soil bacteria, and the development of available plant food.

4. The stubble and other trash found on the field instead of being placed in a layer in the bottom of the furrow as in plowing, where it would stop the capillary rise of moisture, is thoroughly mixed with the surface soil when the ridges are cultivated down, so that it will decay more rapidly, and prevents the drifting of the soil by the wind.

II. SOIL FERTILITY.

The factor most in need of attention throughout the wheat belt of the state is soil fertility. In the greater part of the wheat belt no attempt has been made to replenish the soil with the elements removed by the continual cropping with wheat. It has been proven repeatedly that such a method when long continued results in unprofitable crops.

Lawes and Gilbert conducted experiments with wheat in England, from which they concluded that up to a certain period, excluding variations due to good and bad seasons, the annual decline in produce due to exhaustion may amount to one quarter of a bushel per acre. With each decline of fertility, the rate of reduction becomes less and less until the yield is reduced to twelve or thirteen bushels per acre, when it becomes approximately constant.

Judging from the state crop reports, there must be many of the Kansas wheat fields approaching this lower limit. These fields still contain an abundance of the mineral elements required by the wheat plant, what they lack is humus and nitrogen.

That the yields may be increased by the addition of these materials without losing a wheat crop, has been proven by the Experiment Station at Manhattan with cowpeas used as a catch crop for green manuring.

"The field used for this experiment was upland, low in fertility. The cowpeas were sown each year soon after wheat harvest in close drills, at the rate of one bushel of peas per acre. The field was usually double disked ahead of the drill. Both plots were plowed on the same date and given similar treatment before seeding. The plowing was done each year about the middle of September, the wheat being sown two or three weeks later. Each year the catch crop has given an increased yield of wheat, and the effect has been accumulative, the increase in yield being gradual from year to year."

The first year of the experiment there was a difference of 8 per cent in favor of the cowpea rotation, after five years the plot which had received the green manuring crop, produced 81 per cent more wheat per acre, the average difference being 34

per cent in favor of the cowpea catch crop.

Although this is not a practical method of cropping for general farming on account of the difficulty involved in preparing a good seed bed for wheat after a catch crop of cowpeas, the value of a leguminous green manuring crop in maintaining the productivity of the soil is clearly shown.

The greatest productivity may be acquired and maintained only by a system of rotation which includes legumes and grasses, accompanied with applications of farm yard manure.

The influence of rotation combined with the use of manure is well illustrated by the results obtained by M. G. Hamm, of Holton, Kan., as reported in the KANSAS FARMER on March 26, 1910. In 1909 he is reported as having raised a crop of wheat yielding 65 bushels per acre, on land that had been in cultivation for 47 years. The treatment of the field for the past seven years is given as follows:

Two years in clover; the clover followed by three successive corn crops. The land was disked and manured with seven loads per acre before each corn crop. The last two corn crops produced 70 and 80 bushels per acre, respectively. In the spring of 1908 the field was disked, manured, plowed shallow and sowed to oats. The oats being ruined just at heading time by excessive wet weather, were plowed under about the first of July, after which the land was disked, harrowed and "dragged." The disking, harrowing and "dragging" were repeated after each rain until sowing time, when the field was planted with pure bred Ghirka wheat, secured from the Agronomy Department of the Kansas State Agricultural College. The field was pastured early in the fall with sheep, and later with horses and cattle, whenever the ground was dry or frozen. The pasturing was continued in the spring until corn planting time, when the field was given a surface dressing of manure of seven loads to the acre. The wheat was cut July 6, and when threshed yielded 65 bushels per acre.

Of course this is more intensive culture than we can hope to have soon adopted on the great wheat fields of the state, but it shows the possibilities of our farms when under a good system of rotation combined with the proper use of manure.

III. SEED.

The variety and quality of seed is a very important factor in the successful culture of wheat. In many cases the yield has been increased from two to five bushels per acre simply by the planting of better seed.

The varieties of wheat that are producing the highest yield and the best quality of grain today, are varieties that have been improved or originated by our Experiment Stations.

The Kansas Experiment Stations have tested varieties of wheat from all the wheat growing countries of the world. The most promising varieties have been improved, and distributed among the farmers to the extent that it is estimated that last fall over 1,000,000 acres were planted from these improved varieties that are better suited for Kansas conditions than any other wheat now in existence.

It is not to be understood from this that the seed wheat problem in Kansas has been solved and that there is no further room for improvement. The real work of wheat improvement has only begun. We now have the varieties best adapted to our conditions, the future problem is to improve these varieties by selection and breeding. There are two methods now in common use for conducting this work. These are the "centgener" method, first used at the Minnesota Station, and the "head-to-row" method, now in use at the Kansas Station. Since the latter method is the one now most generally used it will be discussed in detail.

In the first year, when the wheat is ripening or just before harvest, single heads are selected from at least 500 different promising plants

growing in the field. Care is taken to disregard plants which owe their excellence to some especially favorable situation; the purpose being to find plants whose superior qualities are due to the inherent nature of the plant itself. These heads are taken to the laboratory, dried, shelled out separately, and the grain of each carefully examined as to number, size, uniformity, color, hardness of the grain and the manner of filling out of the head at base and tip. In this manner all but the best 100 heads are discarded. These selected are numbered, and 25 of the best grains of each are taken for planting.

At planting time a plot of ground 10 feet wide is carefully prepared for a seed bed. Each lot of 25 grains is then planted in a separate row; the single grains are planted five inches apart in the row, and covered one to one and one-half inches deep, depending on the season. The rows are planted one foot apart, and suitable label stakes are set up at the end bearing the name of the variety and the number of the head furnishing the seed for that row. One or two rows of other wheat are planted in like manner on the outside of the first and last rows in the plot, in order that these outside rows of selected heads shall not have an advantage in soil and light, over the inner rows.

During the spring and summer of the second year careful notes are taken concerning the stand, vigor, general habits of growth, dates of first and full heading, rust resistance, date of ripening, and any other characteristics which different rows may show, reference being made to the rows by their serial numbers, which run from 1 to 100. At harvest time the number of plants in each row are counted and then all are cut and tied up into row bundles. These 100 bundles are carefully labeled and carried to the laboratory, or place of storage, where they are placed out of the reach of birds or mice until they are thoroughly dry, when they are threshed by hand and the grain of each is weighed and carefully examined. Records are then made of the weights of grain from each row, as well as other qualities, such as plumpness of berry, hardness and color. The average yield per plant is found and recorded. Three hundred large, sound grains from each lot are now counted out for the breeding plots.

For the breeding plot a piece of ground 30 by 202 feet is required. This is put into good seed bed condition and laid off into 202 rows, one foot apart and 30 feet long. Now beginning with the second row, the 100 select wheat samples are planted in the alternate rows, leaving a vacant row between each serial number, these vacant rows to be planted with some standard wheat to serve as a check, by which the pedigree rows are to be compared. After planting, label stakes bearing the serial numbers are set at the ends of the pedigreed rows.

During the third year, the spring and summer notes are taken in the same manner as in the second year. At harvest time each 30 foot row is cut and tied into a separate bundle as before. The yield and quality of the grain of each of the pedigree rows is compared with the average yield and quality of the grain of the check rows on either side of it.

The first selection is now made, and the number is reduced to about 20, the selection being based on the two years' records. From each of the rows saved 1,500 grains are counted out for the next planting. This planting being managed in the same manner as the preceding one.

Any pedigree number which in this, its fourth generation, has maintained a uniformly high average, may be safely considered as a superior sort, and is multiplied from then on as rapidly as possible, so as to be compared under field conditions with the older varieties. The planting of the fourth generation should produce at least a gallon of seed for the fifth year, this is sufficient to plant one-eighth of an acre, and by the sixth year there should be seed enough to plant several acres.

When a plant cannot be found among the existing varieties of wheat having all of the desired characters, new varieties are originated by cross-

ing two or more varieties which, together, possess all of the qualities sought. This crossing causes a wide variation in the resulting plants, from which the desirable individuals are selected and increased by the method described above. Some of the varieties of wheat that have been produced in this country by crossing are Fullcaster, Jones' Winter Fife and Early Red Clawson.

It is believed by many farmers that wheat grown in the same neighborhood for several years, loses its vigor and becomes less productive or "runs out." Tests made at various experiment stations show that wheat grown in a certain locality for a number of years, if it be a strain well adapted to the climatic conditions, does not "run out" if properly cared for, but rather that it becomes better adapted and will produce better yields than imported seed of the same variety.

SUMMARY.

I. CULTURE.

1. The ideal seed bed for wheat should be mellow and well pulverized to the depth the seed is to be planted, below this depth it should be firm and well settled.
2. The best method of preparing the seed bed is to plow deep, early in the season, and surface cultivate after each rain until sowing time.
3. Late plowing is more unsatisfactory in a region of light rainfall than in humid climates.
4. Listing gives better results than plowing, in the semi-arid districts, on land apt to be drifted by the wind.

II. SOIL FERTILITY.

1. Fields cropped continuously with wheat become unproductive.
2. Continuous cropping with wheat may be made possible by the introduction of a leguminous catch crop, to be used for green manuring.
3. Continuous cropping with wheat may be made profitable by applications of farm yard manure.
4. Maximum crops are secured only by a good system of rotation.

III. SEED.

1. Good seed is necessary in order to secure good yields.
2. The improved (college bred) wheat, now being grown in Kansas, is better than can be obtained in foreign countries.
3. The best wheat now being grown can be greatly improved by selection and breeding.
4. Wheat properly cared for does not "run out."

Legality of Wills.

Every person is interested in the disposition of his property at his death and should know absolutely that it will be received by those whom he desires to have it, without trouble or expense. Nathan Q. Tanquary, Continental Bldg., Denver, Colo., for more than 20 years has made a specialty of the law concerning wills, estates and diversion of property. No will drawn by Mr. Tanquary has ever been broken. All inquiries by mail or in person are treated with the utmost confidence and given careful personal attention.

Present Status of the Chinch Bug.
(Continued from Page 1.)

CONCLUSION.

1. The overwintered chinch bugs are breeding in wheat, barley, oats, and grass.
 2. The fungus is very generally distributed in the infested area and is now destroying large numbers of the bugs.
 3. This destruction under continued favoring conditions may go forward until so few bugs are left that the damage to corn and other late crops will be negligible. On the other hand, the weather may cease to favor the destruction of the chinch bugs, leaving enough alive to accomplish large damage.
 4. About harvest time, if the bugs are not destroyed, they will begin to migrate from ripened grain into adjacent fields of green and growing plants, such as corn.
 5. This migration may and should be stopped and the bugs destroyed by the intelligent use of barriers.
- Note.—Kerosene emulsion may be made as follows: 2 gallons kerosene, 1/2 pound common soap, 1 gallon water.
- Dissolve the soap in hot water. While hot, but away from the fire, add the kerosene, and churn or agitate until a white, creamy emulsion is formed. When ready to use dilute one part of the emulsion with 15 parts of water.
- Caution.—All oil must be united with the soap, for free oil will kill foliage.

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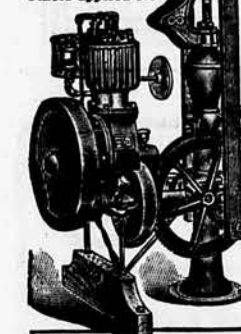
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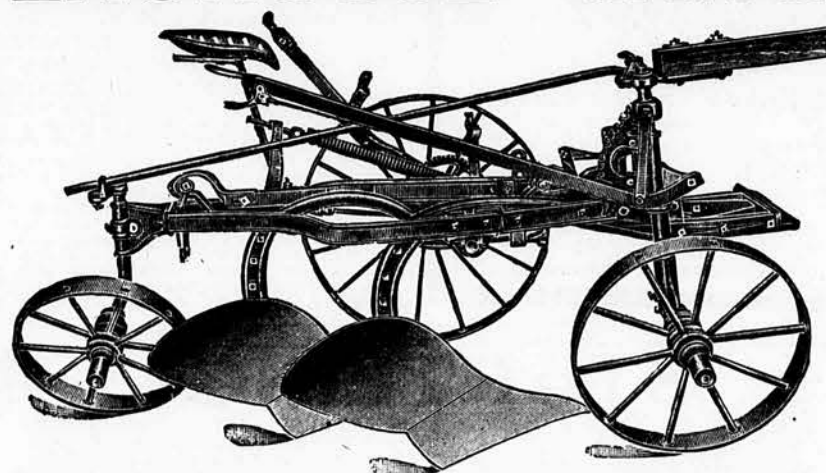
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How does it do it? Easy! Every stroke of the rake overlaps the one preceding, practically raking the ground twice. This is accomplished by a straight chain drive which enables the rakes to move over the ground more rapidly than the loader itself.

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Is the standard by which all others are judged. That's because we are acknowledged specialists and build our hay tools on scientific principles that saves hay and gives it bigger market value. For instance, some loaders whip up the hay and knock off the tender leaves. The Dain picks it up gently from swath and windrow. The rake automatically adjusts itself to all grounds—skims lightly over stubble and bump, searches into every hollow. Another good thing about the Dain—the wheels are set underneath so it can go anywhere. And it's so constructed that it runs easier than any hay loader built. You can couple it up with a wagon of any height, and you can uncouple the loader without getting off the load.

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Special Features
No long crooked crank shaft; is operated by swiveling pitmans.
Patented blinged board at bottom to turn up for windrow.
Hinged tongue for coupling with any height wagon.
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Force delivery shoves hay well forward on load.
No return carrier to drag hay off load. Saves one man's labor every minute in use. Simple in design.
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How Water Moves Upward.

The principle (capillarity) can be studied by the inquirer at home if he desires to do so. Get some cakes of loaf sugar and dip one end of one of these cakes in water. You will see the moisture immediately go up through the cake of sugar clear to the top. Moisture is continually coming up through the soil in the same way. If the soil is allowed to become compact clear to the surface the sun and wind lick this moisture up very rapidly, particularly in the higher altitudes.

Holding this cake of sugar in the moisture lay another cake on top of it. You will find that very, very little moisture will pass into the upper cake, and unless they fit very closely together there will, practically no moisture enter the upper cake. This is because of the small space between the two cakes of sugar. If they were one solid cake it would go clear to the top of the entire block, even though it were a foot high, states the Live Stock Reporter.

When you plow your land you leave between the furrow slice that you turn over, and the subsoil below, more space than there is between these two cakes of sugar. Then you plant your seed in the loose land that you turned over with the plow. Consequently, there is no moisture coming up to the seed, and you have to wait for rain, even though there is plenty of moisture below the furrow slice that you turned over. By disking before you plow and then turning the fine soil down underneath, and again disking and dragging on top you help make, and very largely make, this union between these two soils. The subsurface packer is probably the best tool known for that purpose. The principle upon which it works has been demonstrated on every farm in Illinois. After finishing seeding and dragging a field, no doubt the inquirer has seen a wagon driven across the freshly dragged land, and if the season were a little dry has noticed that the grain came up first in the wagon track. That is simply because the pressure of the wheels joined the fresh soil to the undisturbed soil so that moisture came up into the furrow slice to the seed. It is this moisture that comes from below that we depend upon most largely for the production of our

crops in any country, any year. With a soil and subsoil such as I have referred to there is scarcely any country but that has moisture enough to produce a profitable crop of the grains that are adapted to the conditions existing in that particular locality.

Now taking another cake of sugar and placing some pulverized sugar on top of it, and holding the lower edge of the cake in the moisture, you will observe that the water passes up through the cake readily, but hesitates and passes into the pulverized sugar very slowly. This is because the particles of pulverized sugar are broken apart sufficiently that moisture moves from one particle to the other very slowly. It will in time get up through the pulverized sugar, but it will take considerable time to do so. While this moisture is held under the pulverized sugar, there will not be any evaporation from the surface. If granulated sugar is used instead of pulverized the moisture will come up through much more rapidly, because the particles of granulated sugar are angular and fit more closely together. In the case of some sandy soils, it is found that they become compact clear to the surface much more quickly after cultivation than loam soils, because of this same fact, and their greater weight.

This pulverized sugar represents the condition in the field after dragging, cultivating or disking to break the surface of the soil. The disturbed soil holds the moisture down where the wind and the sun do not get hold of it.

Dwarfed Growth in Second Crop Alfalfa.

Much complaint has been heard in the past in regard to the dwarfed or stunted growth which shows in some alfalfa fields after the first crop has been removed. It is not common that whole fields are affected though it is frequently true that considerable areas and different parts of the same field are stunted.

In such cases the alfalfa seems to be healthy and of normal color and its only trouble appears to be that it does not grow. This is an important matter which has attracted a great deal of attention and in anticipation that something of the kind might happen again this season, Dr. F. L. DeWolf, secretary of the Shawnee Alfalfa Club, addressed a letter to Prof. A. M. TenEyck, of the State Agricultural College, asking for information. Professor TenEyck writes: "In my judgment the dwarf growth to which you refer is usually caused by the alfalfa leaf rust or leaf spot. The strip of alfalfa which was cut early around the border of the field was infected with the fungus disease from the old alfalfa which was left standing. When the disease infects the young growth as it is starting it has the marked effect which you have observed, of practically stopping the growth of the plants. If this strip

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Our Model 1911 Gasoline
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There's one perfect Stack Cover on the market; a cover that keeps out ALL the rain and the hay dry; a cover that will LAST FOR YEARS—not just one season. If you want a cover like that, without paying more than you do for ordinary Stack Covers, insist that your dealer sell you

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For 40 years we've been making dependable canvas goods and our trade mark is a guarantee of quality. Always look for it. If YOUR dealer cannot, or will not, sell you genuine "Baker" Stack Covers, write us and we'll see that you are supplied.

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THE PLATTNER IMPLEMENT CO.
DEPT. 13 DENVER, COLO.

Kindly mention this paper

was very wide you likely observed that the alfalfa was injured most adjacent to the alfalfa which was cut later.

"As you have stated, the effect of this infection of the young plants with the rust or leaf spot disease may check the growth of the plants during the remainder of the season, or possibly the same condition may result again, that the farmer again cuts the alfalfa on the diseased portion of the field first, which favors a further infection from the alfalfa left standing.

"The alfalfa rust or leaf spot matures or develops just about the time the alfalfa is cut for hay, and the leaves begin to drop. At that time the leaves or disease spores may be blown into adjacent alfalfa which has been recently cut, and infect the young shoots which are starting, and when the infection occurs at this early stage of the growth the disease seems to be much more severe than if the infection should occur later, when the alfalfa is nearly mature. If the whole hay crop is removed at once the source of infection is largely removed, but when a part of the crop is left on the field with the disease in it, then the disease may be carried to the young plants which are starting on the adjacent field or strip, as described above.

"I have observed a number of instances of this kind on our own fields, and believe that I am correct in assigning the reasons given above for the dwarf growth of alfalfa which may result from early cutting of strips or borders in a large field."

This matter was brought up for discussion at the last meeting of the Shawnee Alfalfa Club with the result that there seemed to be a diversity of opinion among the members.

While most, if not all of those present, admitted that the rust would produce the results complained of, most of them were of the opinion that something else was the cause. Weather conditions were the most frequently blamed as it was noted that this dwarfing followed the first cutting in some fields, when it did not follow in the same field on land that was cut over a few days later.

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THIS hoe never is dull. Every stroke you take cuts clean, and every stroke helps to sharpen the

True Temper Special Hoe

A thin plate of very hard tool-steel is welded inseparably to the front and lower half of the mild steel blade. The mild steel wears away in use and leaves the sharp, cutting edge of the tool-steel always exposed.

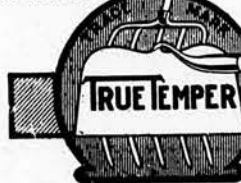
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Sold by hardware dealers everywhere. If your dealer doesn't handle it, write us and we'll see that you are supplied.

American Fork & Hoe Co.

Largest Manufacturers of Farm and Garden Hand Tools in the World.

Cleveland Ohio



Indications now point to a light crop of alfalfa for the first mowing. Much of the first crop probably will not bloom at all and the hay will be difficult to save unless weather conditions prove more favorable. In this connection it might be well to mention that alfalfa seed is scarce and not always of the best quality. Preparations should be made to save alfalfa seed when the time comes.

When the facts are known it will probably be found that there is a very large area of alfalfa land in Kansas that must be reseeded because of winterkilling. Care should be taken to see that the seed that is saved or purchased shall be clean and free from weed seeds. This testing can be done by the botanical department of the State Agricultural College at Manhattan and is worth while.

Much corn will be late and much will have to be replanted. The ground has been too cold for seed to germinate well and that which was planted early has been the prey of the gophers and other pests. A little seed of some good variety of 90 day corn is a good thing to have laid by for emergencies.

Good intentions are said to be used as paying material in a certain place but they will not build good roads in this country.



Established 1802

A RECENT discovery of great importance to farmers in many parts of the country is that dynamite can be used to break up hard pan.

THE Du Pont Company has made a careful study of this question and conducted a series of tests and experiments which show conclusively that RED CROSS AMMONIA DYNAMITE 25% to 35% strength is the best explosive for this work.

IF your dealer does not keep Red Cross Dynamite

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THE GUN FOR THE FARMER

You can protect the acres of corn and oats or whatever you grow from the crows and other pests that are such a nuisance to the farmer. Weasles, Gophers, Hawks, Blue Jays, Rabbits, Woodchucks, etc.

Here's a Repeating Rifle that you can shoot 15 times without reloading.

List Price \$8.00



TWO MODELS: The first takes fifteen .22 Short cartridges only. The second takes any one of three cartridges—.22 Short, .22 Long and .22 Long Rifle cartridges.

.22 Long Rifle, but the greatest accuracy is obtained in this model by using .22 Long Rifle cartridges.

The Stevens Visible Loading Repeating Rifle is guaranteed to be the most accurate .22 Repeater made.

It is rifled with the care and precision that has made the name Stevens famous the world over. It shoots straight and it hits hard. There is no Repeater at the price that has the work and finish which is put into the Number 70.

List Price \$6.00



The Stevens Favorite No. 17 is the best known single shot .22 calibre Rifle in the world. There are more Stevens Favorites sold than any other single shot. This is the Gun that has made the Stevens reputation.

If you are looking for a good Shotgun at a moderate price, write us and we will send you full details and price list. We make Shotguns (Single and double barrel hammer and hammerless) that you can buy at prices listing from \$7 up to \$60.

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Besides shooting with the very best pattern and penetration, the Stevens No. 520 has a feature which no other repeating shotgun has—IT IS THE ONLY REPEATING SHOTGUN MADE THAT CAN BE OPERATED AS FAST AS THE HUMAN HAND CAN MOVE WITHOUT DANGER OF BALKING. This is because the empty shell and the loaded shell travel by separate routes—they cannot meet.

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Experts don't give away these points they spent long years to get. But it's to our advantage that present and future users of Stevens rifles and shotguns become expert shots. We employ some of the world's crack shots. They know all the

little kinks—the fine points that get them big scores.

Do you want these short cuts to expert shooting? Then write us what interests you—rifle shooting, the traps or field-shooting. Our answer goes the day your letter comes, giving you practical suggestions on how to improve your style and accuracy.

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THE FACTORY OF PRECISION.

LIST Price of Stevens Rifles.

Little Scout No. 14.....\$2.25
Stevens-Maynard Jr. No. 15.. 3.00
Crack Shot No. 16..... 4.00
(For Young Shooters. Accurate and made for real work)

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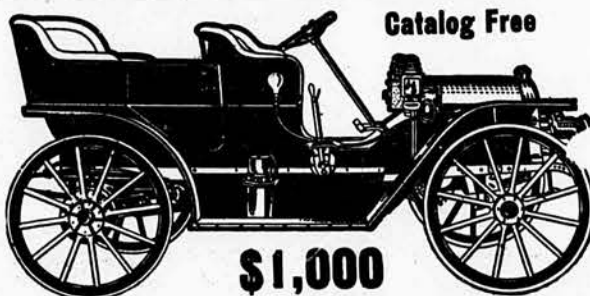
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Isn't a Better Car for Country Service Than Any \$1500 Automobile on the Market, Don't Buy It. But First Investigate!

The Gleason Will Save You the Cost of One to Two Teams



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\$1,000

The man who buys a car for country use should buy a car that's built for country service. The GLEASON is made especially for country service. Its high wheels and powerful engine enable it to travel over any kind of road in all kinds of weather. Its tires give long enduring service without punctures or blowouts and its cost of upkeep is less than \$7 per month. At the same time, it is a handsome and a thorough car.

You can drive the GLEASON car a thousand miles a month for from \$7 to \$10. It will do the work of one to two teams in General Service on the farm besides serving as a pleasure car. Tonnage can be removed in 5 minutes. The GLEASON is a car for a hundred purposes always ready for instant service. No costly repairs; no tire expense. Just gasoline and oil.

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\$10.00 Sweep Feed | \$14.00 Galvanized
 We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

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Harness Shop

A \$3,000 stock of new goods will sell at cost and carriage. A good location in a busy town of 4,000. Only two shops in town. For particulars write

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Dairy Facts

LAST year dairy products sold for over \$800,000,000.00. Did you get your share?

Butter-fat brought a higher price this year than ever before. Did you get a higher price?

The Pure Food Law has made perfect cleanliness in the dairy a necessity. Are all of your utensils absolutely sanitary?

Here is the point: Users of Empire Cream Separators got their full share of the eight hundred million dollars; got their full share of the higher price per pound for butter-fat and, without effort, they kept their machines as clean and sweet as the most strict laws or careful creameries could demand.

These are facts. Write for the proof.

EMPIRE CREAM SEPARATORS

make cow owners successful because they not only extract all the cream, but Empire cream is quality cream. Also, an Empire lasts—does perfect work for years, not weeks or months, which means that it pays for itself over and over again. Always easiest to turn, easiest to clean, best work savers and biggest money-makers.

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Take your choice—Frictionless Empire or Empire Disc—Each style made in all capacities—All backed by the Empire Guarantee, as good as a Government Bond. Send postal for book, the best guide to more dollars ever published for dairymen.

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Mutual Insurance Companies of United States and Canada—over 2,000 leading fire insurance companies—declare



Professor West Dodd's Wonderful Invention

D. & S. Woven Copper Lightning Cable Rod and System of Installation to be the only safe and reliable protection against the terrible ravages of lightning.

LIGHTNING STRUCK

and caused 2165 out of a total of 2980 fire losses to farm buildings in one year, in one state, according to an official report of 111 fire insurance companies.

Not a single loss by lightning could have occurred had those buildings been protected by the D. & S. System of Protection.

75 per cent. of all fire losses are caused by lightning. "A switch in time saves nine." The D. & S. System installed—now—makes you safe.

IT PAYS FOR ITSELF

Endorsements of leading fire insurance companies (list of them in catalogue—send for it). There are allowances of 10 to 25 per cent. off your insurance bills when your buildings are rodded with D. & S. Woven Copper Cable Lightning Rods.

D. & S. Rod pays for itself and then begins to save you money off your insurance bills.

More D. & S. Rods sold than any other three makes combined. Insist on the trademark D. & S. It is your protection.

Send for catalogue and book, "The Laws and Nature of Lightning," free.

Make Yourself, Your Family, Your Property Safe.

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With one horse you can bale a ton an hour with our wonderful Daisy. Self-feed, condenser, bar-sided hopper, and self-threading device. reduce hand work, increase baling capacity. Five days free trial. Write today for prices and testimonials. We have hundreds of delighted users.



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YOUNG MEN WANTED—To learn the Veterinary Profession. Catalogue sent free. Address **VETERINARY COLLEGE**, Grand Rapids, Mich. 6 LOUIS STREET.

LIVE STOCK



The Mule Footed Hog.

At various times and from various localities have come inquiries in regard to the mule footed hog and the claim made by its friends that it is "cholera proof."

No very definite information as to the origin of this peculiar species of swine seems to be available. The writer's first acquaintance with it was in the early 80's when it was thought to be a native wild hog inhabiting what is now Oklahoma and adjacent territory. It was certainly wild enough but of its history nothing could be learned. Later several people, among whom was an Indian chief, captured them in numbers and demonstrated the facts that they could be tamed and that they would breed in captivity.

One of the peculiar attributes of this variety or "breed" was its enormous vitality and consequent productivity. It was also found to respond to regular and plentiful feed and to produce a good article of pork though not meeting the requirements of the lard type of market hog. This vigor of constitution made the mule footed hog less liable to the ordinary diseases to which the more highly organized hog is subject and the impression grew that it was immune from cholera. Indeed a number of breeders of mule footed hogs have made this claim and others equally extravagant.

Like any domestic animal which is not far removed in its descent from wild parentage the mule footed hog did seem, originally, to be practically exempt from hog cholera and other swine diseases but, as the breed has improved and become more like others, it has also developed their weaknesses.

About three years ago the Nebraska Experiment Station was asked to make some tests as to the immunity of this new and strange breed from hog cholera and found that all of them became infected when exposed and three out of four died with the disease. This same test has been made elsewhere and there can be no question about this breed being susceptible to the disease though the degree of susceptibility may not

be so great as that possessed by those breeds which have been developed in captivity for a much longer period.

Any radical change in the feed is likely to result badly for the hog. A variety of feed is always relished and is best for the animal, but care should be had in making any marked change or the digestive system is thrown out of order and bad results follow. Make the changes gradually.

The modern hog is a purely artificial product and as such, needs and must have special care. Wild hogs can care for themselves and the farm hogs which are allowed to care for themselves most nearly approach the wild type and hence are of less value. The modern hog is a money making machine and, like other machines, must be properly cared for if it produce results.

The farmers of the corn belt states must now confront the problem of raising their own feeding cattle. The time when cheap feeders and stockers can be picked up in numbers in the states and territories west of the Missouri river has gone by and this demands that new methods of beef production must be pursued. Already the great grazing grounds of the West have shown a shortage and this condition will become more and more acute. There is good money in home-grown steers, but they must be well bred, and well cared for to produce it.

In many sections of this state there are large areas of rough land that is best suited for grazing. Owners of such land will find it profitable to buy or raise beef cattle for the summer use of this land if they can also arrange to rough them through the winter on alfalfa, corn, straw and silage. Silage is to be reckoned with in the future of the beef industry. It is one of the means offered to solve the problem of cheap beef production. The combination of rough pasture land and the silo promises better than any other known method and will serve to bring a profit from the rough land and to double that from the plow land.

The Indiana Experiment Station calls attention to the fact that "the feeder's profit depends upon the margin between the cost of feeding cattle and the selling price of fat cattle, the quality and type of steers, their previous treatment and condition when placed in the feed lot, the rate and cost of gain, degree of finish when marketed, value of manure produced, kind of ration fed and the gain on the hogs following.

On high priced land that is all available for cultivation it probably will be found more profitable to buy feeders than to raise them but even here the silo will increase the profits by saving the entire corn crop instead of the ears only and by supplying a succulence which will double the feeding value of corn.

HOLLAND STOCK FARM

Importers and Breeders of

Percheron and German Coach Stallions and Mares

Do You Want to Buy a Stallion for Cash; Go to the Holland Stock Farm.
CHAS. HOLLAND, Prop. SPRINGFIELD, MO

"Goodhue Windmills are good mills"

The arrow points to the motor parts, the "business end", of a Goodhue Pumping Windmill. Compare these parts with the corresponding parts of any other windmill made and you will quickly realize the greater strength and simplicity of the Goodhue. Strength and simplicity mean longer and better service, less liability to disorder, less repairs. It is a matter of record that the average

cost is only 4c a year

to keep a Goodhue Outfit in good working order! No other windmill can duplicate that record. A Goodhue Windmill Outfit will give you all the fresh water you want, where you want it, and when you want it, with no expense for fuel.

THE WIND BLOWS FREELY FOR ALL. NOT EVEN ROCKEFELLER CAN CORNER OUR BREEZES

You know that a gasoline engine that is large enough to be profitable in general farm work costs too much for fuel to be profitable in pumping water. You can buy a serviceable Goodhue Windmill Outfit for less money than it costs to run for five years the cheapest gasoline engine made, and after five years' use such an engine would be worn out and worthless. A Goodhue Windmill Outfit costs nothing to run, except a few cents a year for lubricating oil, gives no trouble, and will be just as strong and serviceable after five years use as the day it was erected, because for a nominal fee the Goodhue is

insured for five years

against cyclones, tornadoes, run-away teams—in fact against anything and everything except willful act and willful neglect, and it is THE ONLY WINDMILL MADE THAT IS SO INSURED.

Send us your name and address for a free copy of our book ABOUT GOODHUE WINDMILLS. It will give you more practical information about windmills and windmill towers than you can obtain from any other source—just the kind of facts you ought to know before buying a windmill. WRITE TODAY.

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"GOES LIKE SIXTY"

The engine built to last a lifetime. The simplest engine you can buy—will start to work the minute you get it, and run right along without trouble. A child can learn to operate it. Built strong and solid. The iron test exceeds the government requirements by 500 lbs. per square inch.

GILSON quality gives full value for your money—dependable service, great durability, perfect economy and freedom from trouble.

The "GOES LIKE SIXTY" line has an engine for every purpose. Air cooled and water cooled, 1 H.P. to 27 H.P. Pump jacks, plain pulleys, friction clutches, separator pulleys, saw rigs, portable outfits, power sprayers, irrigating plants, electric light plants and numerous other outfits in many styles, are a part of the Gilson line. Write for Catalog.

GILSON MFG. CO., 870 Park St., Port Washington, Wis.

Summer Courses in Agriculture and Manual Training.

The pronounced sentiment of the best men and women in Kansas for the training of our boys and girls in vocational studies has created a very large demand for teachers of agriculture and manual training. The Agricultural College cannot supply enough teachers from its own list of graduates. It is, therefore, offering this summer course for the benefit of those who desire to fit themselves to teach either agriculture or manual training or both, next year.

There are many well-trained men who have had thorough courses in botany, zoology, chemistry and physics, who are interested in agriculture, but need just such instruction, inspiration and guidance as will be offered at the Agricultural College this summer. There are many well-trained country school teachers who want to know more of agricultural science, in order to teach elementary classes. These people are invited to avail themselves of the special courses offered by the college this summer.

The student will have the opportunity to choose between two courses, one in which agriculture predominates, and another in which the major subject is shop work. Or the student may combine portions of the two courses.

Soils and Plants.—This course will consist of a lecture of one hour and a laboratory period of one or two hours daily throughout the course, and will include the study of such subjects as soils, farm crops, corn, and small grain judging, plant propagation, germination tests, budding and grafting, fruit judging, and insects injurious to farm crops. By Professors Dickens, Scott, Headlee, and Asst. Prof. Call.

Farm Animals.—This course will consist of one lecture of one hour and one laboratory period of two hours each day, and will include the judging of cattle, horses, sheep, and swine, the manufacturing of butter and cheese, and the scoring, judging, handling and management of poultry. By Professors Kinzer and Kendall, and Assistant Phillips.

Education.—One lecture daily. The first half of the course will be devoted to pedagogy and general school management. By Professor McKeever. The second portion of the course will be devoted to vocational education or the methods of introducing agriculture, shop work and domestic science into the high school and the grades. By Professor Holton.

Physics or Botany.—One lecture and one demonstration daily. By Professor Hamilton or Professor Roberts. These courses will be models of the way in which the subjects should be taught in the secondary schools.

Woodwork.—Three and a half hours of shop practice per day throughout the course, consisting of bench work and cabinet making. In this course a lecture will be given each alternate day on manual training methods for schools.

Modeling.—Three and a half hours per day throughout the course, consisting of making of molds and cores, and of cupola practice. Special attention will be paid to the use of alloys such as can be readily employed in the average high school for making casts, etc. The instruction in this course will be such as to fit a person to teach the work with such facilities as the average high school affords.

Blacksmithing.—Three and a half hours daily throughout the course, consisting of practice in forming and welding wrought iron and the manufacture of steel, and sufficient instruction in the use of high-carbon steels to give the student skill in making and tempering such tools as will be needed in this and other branches of manual training in the high school. This course will be accompanied by lectures.

Students in manual training may elect two of the three groups above, with education, or they may elect one group in manual training and one in agriculture.

Agricultural students may devote themselves entirely to the agricultural groups, or elect a group in agriculture and in manual training.

The course in education will be required of all students in either course. The laboratories and shops will be open from 8 a. m. to 5 p. m.

Home Economics.—A teachers' course in domestic science and art will be in progress at the college at

the same time, having been begun May 17th, and will continue ten weeks.

The only fee charged by the college will be the regular incidental fee of \$3, which the state law requires to be charged of all students who are citizens of Kansas. Board and room may be had for from \$4 to \$5 per week.

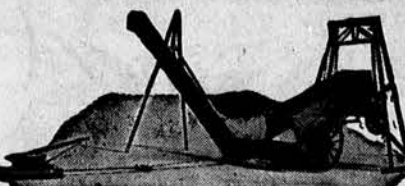
The Commencement exercises of the college will be held on June 16, when there will be no sessions of the summer school. The Commencement address will be given by Hon. Willis L. Moore, Chief of Weather Bureau Service, Washington, D. C. Subject: The Wonders of the Air.

For further information address Pres. H. J. Waters, Manhattan, Kan.

A practical farmer recently remarked that "a man can buy forty acres of land at \$250 an acre, and come nearer making it pay out than if he bought ten acres at the same price." The profits from the ten acres will be entirely consumed by necessary expenses, and with no force in reserve; while the forty-acre farmer will have a chance to make some profits above expenses. It is difficult to say how small a farm can be profitably rotated. Much depends upon the crops and the local conditions. One thing is evident from the experience of the past; that to keep up the fertility it will require about as much land in alfalfa all the time as there is land

planted to other crops. Probably from twenty-five to forty acres should be the minimum farm in Colorado outside the fruit and truck farming sections. Those that contemplate going onto a small tract should understand that there are many elements to consider before making a choice. Soil, climate, water, markets, labor, insects, plant diseases, and many minor points, besides experience and persistence.—Prof. K. Blinn, Colorado Agricultural College, Fort Collins.

Steel Wind Mills.....	\$12.75
Iron Pumps.....	1.80
Galvanized Steel Stock Tanks.....	2.70
Direct from factory to users only.	
CATALOGS FREE.	
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A MARSEILLES GRAIN ELEVATOR

Will pay for itself in one season in time saved. They handle successfully Ear Corn, and all kinds of small grain. If you are not familiar with the advantages of this machine write us for Catalog A.

JOHN DEERE PLOW CO.
Kansas City
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STANNARD'S PROCESSED CRUDE OIL.
Kills Lice and Cures Mange. There Is No Remedy on the Market as Good or as Cheap.
It not only kills all lice on cattle and hogs, but all nits, and one application does the work. Does not injure the hair or skin. Can be used in vats or with brush. Also kills lice or mites on chickens. Put up in new 52-gallon barrels and sold for \$5 per barrel. I have used nearly every dip on the market and I say to you, from experience, this oil is better and more effective than any of them. Why pay \$50 per barrel when you can get a better article for \$5? I also sell a heavy Pure Crude Oil as it comes from the well that is a good lubricating oil. 52 gallons for \$3.50; an excellent grease to keep plowshares and cultivator shovels from rusting. When ordering state plainly whether you want the Process Oil or the Pure Crude. Send remittance with the order.
Read my advertisement of refined oils in next week's issue of this paper.
C. A. STANNARD, Emporia, Kansas.

The Wonderful Sale of a Simple Car

The Overland—the simple and trouble-proof Overland—now commands a larger sale than any other car in existence. And the demand is now growing five times faster than it ever grew before.

The Car That Sells Itself

The second year's sale of the Overland was ten times as large as the first. And this year's orders are already five times as large as last year's.

Now we are making 140 Overlands daily. Last year at this time our output was from 20 to 25.

Two years ago we had one little factory. Today we have five factories employing 4,500 men.

But never before has the demand increased as fast as it is increasing today. The more cars we get out the greater the call, for the Overlands sell themselves.

The Reasons

One of the Overland's greatest attractions lies in its utter simplicity. It has fewer parts than any other car. It has none of the usual complexities.

And it has the pedal control. Push a pedal forward to go ahead, and backward to reverse. Push another pedal forward to get on high speed. It is as simple as walking—so simple that a child can master the car in ten minutes.

Then the Overland is almost trouble-proof. Many an owner has run from 7,000 to 10,000 miles without even cleaning a spark plug. Any novice can handle and care for it.

It is a car which always keeps going. In the Post-office service, where Overlands are used, these cars have been run for 500 days, winter and summer, without missing a trip.

The \$1,000 Car

This year we are selling a 25-horse-power Overland for \$1,000 in roadster style, and for \$1,100 with complete toy tonneau.

It is not under-sized, not under-powered, like the usual low cost car. The wheel base is 102 inches.

We are this year selling a 40-horse-power Overland, with single rumble seat, for \$1,250. It has a 112-inch wheel base.

Overland prices run up to \$1,500. Each includes magneto and full lamp equipment. Each gives a great deal more for the money than any other maker can give.

We have cut our costs 20 per cent in the past year alone by the use of modern automatic machinery. Also through multiplied output.

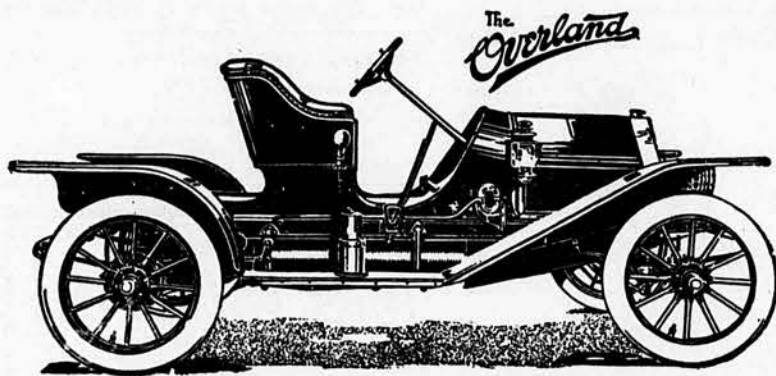
Let Us Send All the Facts

Every motor car lover should know the facts about the most successful car in the world.

Think of the place, which this car has gained in a little more than two short years. And the success is all due to each car selling others.

The men who are buying these cars—140 per day—are men who seek just what you seek. The car which they buy is the car which you'll buy when you know it.

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HOME CIRCLE



Home Science for All Girls.

Mrs. Nora B. Dunlap of Savoy, president of the department of household science, Illinois Farmers' Institute, made the following strong, practical points in speaking to the recent conference on putting agriculture into the common schools.

Agriculture leaves off where household science begins. Agriculture provides the food and clothing for man and household science makes it adaptable to man's use. The science of agriculture has developed the science of plant and animal life, but not the science of human life. The study and application of household science will in time place human life upon as important a scientific basis as we find plant and animal life is today.

Domestic science is of equal or greater importance than agriculture. The health and success of every human being depends upon how much intelligence and scientific feeding and care he is expending upon his individual life. That knowledge is mostly embraced in what we term household science. Agriculture is needed by only a limited number of men. Household science should be required of every woman student in any school. No woman, no matter how great may be her intellectual and cultural attainments, is completely educated without household science — not educated for the position, which if she is a true woman, she hopes within her heart to occupy some day, that of a wife and home maker.

The university has 500 students in agriculture, and in all over 3,000 men students, but where are they to find wives equally trained in the science of home making, when the household science department has only 219 students. It is the same everywhere. And the high schools and women's colleges are sending forth girls they claim are educated, without any training in household science. We must provide this training for our girls, or many men must be content with an untrained cook, dietician and home-maker.

There is not a food produced by man's knowledge and scientific training but what equally as much knowledge and training are required by woman to make that food complete for man's digestion and assimilation. It takes a certain equipment, much practice and some scientific knowledge to make bread that will build for life instead of disease. This equipment will cost about \$7, not much in comparison with your equipment for raising wheat, but how many women would use it or know how to use it if they did possess it? The home maker should know the elements in the wheat and what they do for the nutrition of man.

You in agriculture know something about protein, carbohydrates, fats, mineral salts and their proportion required for a food ration for your plants and animals, but how many of your women as they pass out of school educated, know anything of a balanced ration for themselves or will know for the babe or growing child that may depend upon them for all that makes life worth living — good health? Prof. Dietrich says that if pigs are not fed right until they are five months old, they never will return the same profit to their owners

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as if they had been fed right. Prof. Obrecht says unless a colt is fed right until it is a year old it will never be as good an animal. What about the child that has been fed wrong during its early period of growth? Do we know anything definite as to results as we do with the pig and the horse? No. Every woman should understand food principles and elements because she by her method of selecting, combining and preparing food is either bringing health or disease to those who come under her care.

William G. Kenyon tells of the 300 per cent increase in the number of Illinois insane with only 80 per cent increase in population, and states that this disease has been traced back to a single point, disturbed digestion and mal-nutrition; and he locates the source of these in the kitchen. There is where this disease starts, and where it must be attacked. "The cause of our being a nervous, restless people is all in our indigestible cookery. This is a national affliction. Not only is there carelessness in the preparation of food, but widespread ignorance of the basic principles. The kitchen is of greater importance than the medicine chest in the uprooting of insanity."

There is only one answer as to the cause of the enormous loss of infant life and great increase of disease — our imperfect and incomplete system of required education for both men and women, but especially for women.

Ninety-five per cent of all food is selected, combined and prepared by women. All the sanitary and health conditions of the home are directed and supervised by women. All the physical, moral and spiritual life of the child is directed by the mother. How are we going to remove all the deteriorating and degenerating tendencies of the nation unless we more fully recognize the causes of things and seek a better training for the girls and women of the nation?

No matter how many bureaus of health are established unless we make a crusade against the average American housewife's conservatism, unless we convince her that her present methods of preparing and combining her food is the cause of so much ill-health, unless we can convince her that she must change her attitude towards all the activities of the home, we will never attain to better standards of health.

Dr. Wiley's report shows that 35 per cent of all supplies for the American kitchen are wholly wasted, while Professor Beries' report to the French government shows there is not an idle acre or a wasteful kitchen in all France, and that the land earns more than ours.

William E. Curtis has shown recently in the Record-Herald that American food waste is the highest in the world; that the poor waste the most; that we neglect the art of skillful cooking; that old and young think it beneath their dignity to study economy; that food information is so scant that even those who want to economize do not know how; and that extravagance can be cured only by teaching the young the dignity and duty of thrift, the arts and economies of common life, including the comparative nutritive value and proper uses of food. He says we must know more of the facts; that these subjects are being studied accurately in Europe but that in this country almost nothing is being done.

The one and only cause for these results is educational. Poverty, sickness, crime and divorce could soon be a condition of the past if we were expending the present money for education, with a compulsory law, enforced, in teaching men and women the laws governing their own lives and fitting them for the individual positions they should occupy in the profession of home making.

It is hoped as you plan for agriculture in all our common schools and especially our country schools, you will with equal interest and enthusiasm plan for household science to go side by side with it.

DAIRY



Cheesemaking for Family Use.

Many a farmer's wife would like to occasionally make a small cheese for home use, but not knowing how and considering it a difficult and risky task, is deterred from undertaking it, writes Mrs. C. S. Bourk of Kansas in Hoard's Dairyman.

Years ago I learned to make cheese while visiting at the home of a friend. But I never expected to put that knowledge into practical use. However, after marrying a farmer and having a family and also work hands a part of the time, I decided to put my cheesemaking knowledge into practical use. It has proved a very useful part of my education, by supplying our table with a good and wholesome article. Besides, when friends and neighbors saw and tested it, I became famous for the production of fine homemade cheese and had demand for more than I could make.

Now, as I consider it neither as difficult, risky nor laborious as butter-making, I prefer to make cheese, and also because not so many are in cheesemaking as in butter-making. Another reason that I prefer cheesemaking is that it is not even necessary to have a cellar, nor are you required to hang cream or milk in the well, nor is it necessary to have a supply of ice in hot weather, as in the case of butter-making.

For home cheesemaking on a small scale one usually has all the required implements on hand. First, a well cleaned wash boiler will answer for a vat. Take five quarts of milk for each pound of cheese to be made, a four or five pound cheese is about right for family use. Use all morning's milk if possible; if some evening's milk is used be sure that it is perfectly sweet, and skim that, as a beginner is apt to lose that cream.

Put into the boiler and heat to eighty-five degrees, remove from the stove and add the rennet. I use Hansen's cheese rennet tablets, also Hansen's cheese color tablets, which I buy at the drug store. The proper directions come with them, and if followed, one cannot make a mistake about the amount of rennet to be used. But with the color tablets one must exercise some of her own judgment, as some milk has more natural color owing to different conditions, such as feed, seasons and so forth, and some people like highly colored cheese, while others prefer it very pale.

Add the rennet and color tablets, previously dissolved in a little warm water, to the warmed milk; be sure to use a dairy thermometer for there must be no guess work about cheesemaking. Stir thoroughly and cover with a comfort; let stand from forty to sixty minutes, or until it becomes of a good thickness and if the curd is broken the whey will at once ooze out.

If in testing, it has not reached this stage, let stand a while longer. Now cut both ways with a long knife, clean to the bottom of the boiler, about an inch apart each way. Cover again and let remain for ten minutes; now cut again both ways and cover once more and let stand a short time. Soon the whey will rise which may be dipped off with a bowl, having first spread a cheese cloth over the curd. Dip off all the whey possible. Then take a sharp skimmer without handle and stir and chop and turn the curd until it is quite fine. Do this as gently as possible, for the more gently it is handled all through, the less cream will be liberated and consequently the better will be your cheese.

The whey should have a greenish cast and be nearly transparent. If it looks milky there has not been enough rennet or not enough heat; this cannot be remedied this time but the next You will readily learn by experience about such things.

Next place a clean, wet cheese cloth in a clothes basket, place the basket slanting in a tub, dip the curd on the cloth and let the whey drain off. Meanwhile heat several quarts of curd to ninety degrees and pour over the curd. This will harden the curd and make it squeaky; work gently with the hand until the whey is off.

Now it ready for the salt. Cheese requires much less salt in proportion than butter. Work the salt through and taste to see if it is salty enough.

Now place the cheese hoop, which may be a wooden bucket, or peck measure with the bottom out, on a clean board. Spread a wet cheese cloth in the hoop, then dip in your curd; arrange the cloth over the top, then put on your cover which should be a round board to fit in the hoop.

A good home-made press is made by hinging a scantling to the wall in some convenient place, two or three feet from the floor. The hoop is placed under this with an upright block of wood on the round board.

The amount of pressure is regulated by hanging a bucket containing stones or other heavy substances on end of lever. The pressure should be increased gradually. The cheese should remain in the press until evening; then take out and turn on a clean, wet cheese cloth; trim off all uneven edges and put back into the press and leave until morning.

Take out of press, bandage it with cheese cloth, after which rub it thoroughly with melted butter and cure it in a warm, airy room. Turn and rub with a very little fresh butter every day for a week; after that turn every second day and rub well without using any butter. It can be cut when four weeks old but is better at six or eight weeks. This differs according to taste, as some prefer it more green than others.

Do You Know Your Cows?

In the good herd of the Geneva, New York, Station, the result of careful breeding and selection for years, great differences were found between individual cows. The best cow of the herd, who held her place for four years, gave three times as much milk as the poorest cow in each of three seasons; and it cost only one-tenth more to feed the good cow than to feed each poor one. Similar, or worse, conditions exist in many herds in the state. Even the poorest cow in this herd probably paid for her feed; for she produced butter fat at from 25 to 33 cents a pound; but the station has records of herds in the state that average only 80 pounds of butter fat per cow, bringing in a gross return of \$26 a head. How much it cost to feed those herds probably no one knows, but the least the station could carry any cow through a year on, for feed alone, was \$47.50. If these poor herds gave an average of only \$26 worth of product in a year, \$20 less than it cost the station to keep its lightest-cost cow, how much did the poor cows of those herds lose their owners? Any cow-keeper will be interested in bulletin No. 322, for it gives very accurate data for production and food cost of that production, of 19 cows yearly for three years.

The station herd consists of Jerseys and Jersey grades, and has been built up at small cost, just as any farmer could build up his own herd, until it averages more than 6,000 pounds yearly per cow, of 5½ per cent milk.

Harry S. Gail, Secretary of the New York Jersey Cattle Club, writes: "We have started a good one on a year's authenticated test, Angela of Bleak House 233250, a daughter of Channel King out of Anna of Elma. She finished her first month on April 30, 1910, with 1434.4375 pounds milk to her credit testing 5.413 per cent fat, thus making 77.6461 pounds fat during the first month of 30 days, which is 1.2798 pounds more fat than Jacoba Irene made during her first month of 31 days. The two days she was tested by the Cornell University man Angela made 5.332 pounds of fat."

Dairy Don'ts.

- Don't smoke or chew while milking.
- Don't go to milk without first washing the hands.
- Don't think straining can clean dirty milk.
- Don't think the separator can clean dirty milk.



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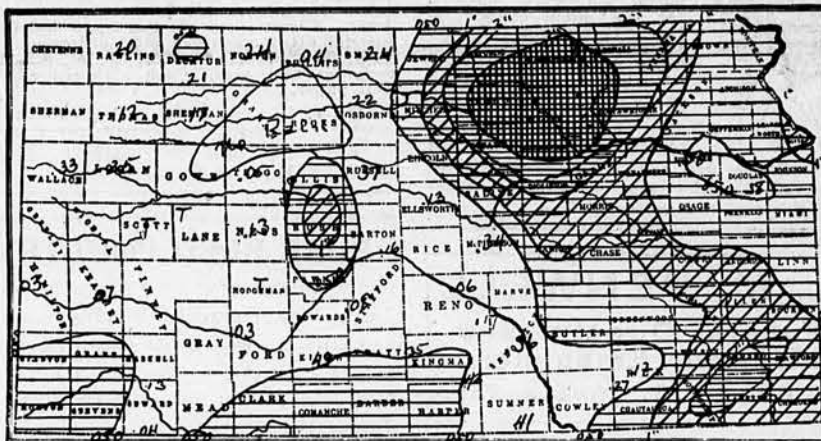
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WEATHER MAP

Main chart prepared by T. E. Jennings from reports collected by the Weather Bureau.



SCALE IN INCHES:



Less than .50 .50 to 1 1 to 2 2 to 3 Over 3 T. trace.

GENERAL CONDITIONS.

Heavy rains have fallen in the northern counties east of Smith and Osborne as far as Jackson and Brown. The rainfall was comparatively heavy in the Neosho Valley and the lower portion of the Verdigris Valley. Over the rest of the state the rain was lighter than it has been the past few weeks except in Rush county where heavy rain occurred.

Cool, cloudy weather has prevailed in the eastern counties with more sunshine in the western counties.

A general improvement in crop conditions has been noted this week.

Alfalfa cutting is in progress.

Reports by Counties.

Allen—Fair corn growing week. Wheat and oats headed out. Clover in bloom.

Anderson—Better weather for crops, which are improving.

Bourbon—Warm weather, crops making good progress, but most too wet to cultivate much.

Chautauqua—Still cool for season of year, but crops are generally doing well.

Douglas—Wheat headed out, will be short in straw. Early oats heading, cultivators busy in corn fields where dry enough. Early potatoes large enough for use. Roads in fair condition.

Elk—Weather, past week, favorable for cultivation.

Greenwood—Some warmer weather the past week. More rain in north than in south part of county.

Jefferson—Too many showers. Much corn to be replanted. Corn poor color. Oats and grass growing finely. Much wheat plowed up and planted to corn and millet. Cutting alfalfa this week.

Linn—Wheat all headed, looks good. Oats promise a fell crop. Timothy and clover above the average, also flax. About all through planting corn, considerable had to be replanted on account of wet cold weather; it is all small but with favorable weather will soon look up right.

Marshall—Four days rain. Alfalfa ready to cut. Some replanting corn. Weeds getting good start. Everything making good growth. 7.50 inches in May in gentle rains, but little ran off. Some grain and hogs to market.

Nemaha—Corn is being replanted right

along. Alfalfa cutting commenced.

Pottawatomie—A good week for all growing crops. Alfalfa cutting has begun.

Shawnee—Showery weather continues. Alfalfa being cut under difficulties.

Woodson—Good week for farm work and all crops doing well.

Middle Division.

Barber—Good week on crops of all kinds. Perfect growing weather. No wind.

Barton—Corn coming on very slowly, a good deal to be replanted, poor stand. Some plowing under way. Wheat prospect excellent, about 40 per cent winter killed. Oats and barley growing, meadow hay 60 per cent.

Dickinson—The dashing rain of Saturday night did much damage to corn fields. First cutting of alfalfa has been greatly damaged by wet weather.

Jewell—A fine week for growing crops.

Kingman—Fine growing week. Crops coming on nicely.

McPherson—Light showers during week, less than an inch, kept the ground rather moist and delayed working the corn in places. Some alfalfa cut, some damaged. Corn very backward, needs more sunshine and cultivation.

Marion—Several barns and outbuildings blown down Saturday night. Some hail in places. Oats heading. Corn planting mostly done, stand generally good. Weather seasonable.

Osborne—Wheat heading, beginning to get weedy where thin. Corn is up and is being cultivated. Alfalfa ready to cut, light yield.

Pawnee—Wheat, oats and barley give fine promise. Wheat harvest will begin between 15th and 20th as estimated at present.

Phillips—This has been a pleasant week. Farmers cutting alfalfa and cultivating corn.

Sumner—Cool and dry, good weather for hay making and corn cultivating. Oats nearly filled.

Western Division.

Clark—Crop conditions good. Wheat is in fine condition. Feed crops are small but growing nicely.

Decatur—Weather has been favorable for wheat and corn, wheat heading nicely and of good length. Barley headed, oats thrifty, corn planting about finished, corn coming up nicely, but little will be replanted. No signs of hailstorms.

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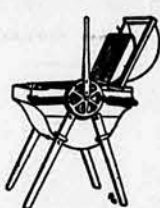
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CONDITIONS—Entries close Monday, August 15, 1910. Entry fee 5 per cent of the purse and an additional 5 per cent of money winners. Money divided in all harness races 50, 25, 15 and 10 per cent. All harness races best 3 in 5, and unless sooner decided, end with fifth heat. Horses not standing for money at end of third heat, not permitted to start for fourth mile heats in harness races. Any horse distancing the field, or any part thereof, is entitled to one money only. Right reserved to change the order of the program, and also to declare off any races not finished by 4 p. m., Friday of week of meeting. One-half of the entrance fee refunded to starters finishing the race inside the flag and outside the money. Five to enter and four to start.

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POULTRY



Poultry Notes.

Kafir corn is one of the very best grains that can be fed to chickens, either young or old, and every farmer should raise enough of it to feed his chickens at least, if not more. Experiments in feeding Kafir corn at the Oklahoma Experiment Station proved its superiority over other grains. The experimenters found that chickens digested Kafir corn and corn more completely when the grain was fed whole than when meal was fed. This is the opposite to the generally accepted notion and shows that the grinding of Kafir corn or corn is a waste of time as far as chickens are concerned. The Kafir corn and Kafir meal fed in this trial yielded but two per cent less total digestible matter than the corresponding corn products. Kafir corn was a more suitable ration, considering only the relative amounts of growth-making and fat-forming material for chickens, than Kafir meal, corn, or cornmeal. Cowpeas were digested reasonably well, and are desirable feed for growing chickens and hens. But little gain in digestibility was secured by grinding the cowpeas.

There are two lines of work possible for the farmer to follow which bring cash returns and bring them in daily. These are dairying and egg production. In this regard they lay over every other feature of farm life. Ready money is something to be highly prized and the dairyman and the egg man know its value. Creamery butter and fresh eggs will always be wanted and they bring exceptionally good prices just now.

Lice sometimes cause feather eating. The hen in attempting to ease herself of the annoyance caused by the irritating presence of the lice, picks at the base of the feathers, occasionally pulls one out, and finding it succulent, continues till she becomes a confirmed feather eater.

Ensilage can be put up for fowls in a large hoghead, which can be

bought ready-made of any size desired, but clover, alfalfa or grass is the best filling and it should be packed in very firmly and then weighted down. A hoghead will hold ensilage enough for a good sized flock of fowls, and the silage will take the place of green stuff in winter.

Farmers should eat more of the poultry that they grow. It is nearly always a high-priced meat, but it is so very largely because when young and well fattened the flesh is more easily digested than any other. Most of those who grow poultry content themselves, through mistaken ideas of economy, with killing for home use only those fowls that are old, tough and unsalable. These, however, are not to be despised, if cooked long enough over a slow fire to reduce the muscular parts to tenderness. It is time, rather than great heat, that is required to make all old animals good to eat, and to some they taste better than young chicks. A fireless cooker is the ideal cooker for tough fowls. All kinds of meat should be cooked long enough to make them tender. There is more nourishment in the old fowl than there is in the broiler and if it is cooked long enough it will taste quite as good.

A great many hens at this time of year quit laying eggs and won't lay again till fall or maybe not until next spring. It ought to be apparent to everybody that it does not pay to keep such hens and that they should be sold as soon as they stop laying. This does not apply to valuable fine bred hens that may be needed for next season, but only the very best should be saved.

Gapes have been prevented and cured by using oil of sassafras. Place a few drops in the food for prevention, and for a cure, drop down the windpipe with a medical dropper. Put it on the head and under the wings for lice.

Get rid of all the dumpish, weakly chicks and devote all your thoughts and energies to keeping the broods steadily growing from start to finish. Your best birds are those which never had a moment's sickness during the growing period.

Chicks hatched from weak breeding stock are foredoomed to an early death or a profitless life and oftenest it is death.

As a rule a sick fowl does not respond to treatment and it is a waste of time to bother with it, unless it is a valuable specimen.

When a hen fails to lay enough eggs in a year to pay for her food, she is profitless. Fatten her up, then put her in the pot or roast her.

Sound, sweet food, plenty of grit, freedom from lice, pure water; these are the requirements to maintain good health in chicks from vigorous stock.

Raw meat chopped fine, and fed moderately, say about three times a week, will greatly stimulate egg production. Feed about a pound to a dozen hens.

These are days of great tribulation to the poultry breeder, the festive lice maketh the trouble.

The only way of getting rid of lice and mites is to keep everlastingly destroying them.

Give the chicks a large run in the grass and they will fare much better than when cooped up in some box or coop.

In many cases, summer diseases are due to overfeeding. Put them on different diet and feed them sparingly until the malady is over.

CHICKEN LICE The Easiest, Quickest, Cheapest Way to Kill Them

You ought to kill every chicken louse on your place!—Mighty expensive boarders, they are. They worry and pester your fowls and keep all your poultry skinny, sick and poor. No hen will lay regularly if she has to fight lice all day. And chicken lice multiply by THOUSANDS every day! Get right after them and kill them!

The very next time you are in town, go to a drug store or hardware store and get Whittier's Red Label Lice Killer. A full measure gallon costs but \$1.00; a half gallon 60c; a quart 35c. Mix one part of "RED LABEL" with 20 parts of water and you have a solution that is SURE DEATH to every louse. Yet it is harmless to chickens, and this solution, ready for use, costs only 5 cents per gallon! "Red Label" is an antiseptic, too—prevents roup, cholera, and other deadly diseases.

Whittier's Red Label Lice Killer Does It—Quick!

Don't fuss away your time with lice powders. Just get the genuine Whittier's Red Label Lice Killer and see it knock the lice. Painted on roots and dropping boards, the fumes kill all vermin. It's great! All good druggists and hardware dealers sell it and nine-tenths of the poultry authorities prescribe it. You'll like it.

Send us your name and address if you want a highly interesting book on how to exterminate lice and the many diseases that a chicken is heir to.

When you want an antiseptic dip, get the best—Car-Sul. It costs no more than the common kind. Our poultry and stock remedies are standard the world over.

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SEVEN ROOM HOUSE, NATURAL GAS, city water, barn, 3 lots, west part of city. Will trade for small farm. Address E. D. Parr, 710 Clay St., Topeka, Kan.

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BUY OR TRADE WITH US, SEND FOR list. Bersie-Meredith, Eldorado, Kan.

FARM LOANS MADE IN ANY AMOUNT from \$500 up at lowest rates and on most favorable terms. Betzer Realty & Loan Co., Columbian Bldg., Topeka, Kan.

FOR FREE INFORMATION ABOUT Labette Co., Kansas, farm lands and Parsons real estate, one of the best towns in Kansas, write W. C. King, Parsons, Kan.

FOR SALE—120 ACRES, 6 MILES FORT Scott; fair improvements; smooth land, \$5,000. 250 acres, 1 mile town; good improvements, bottom land; no overflow. \$60 per acre. Many others. Geo. N. Bainum, Fort Scott, Kan.

260 A. OF SMOOTH, TILLABLE LAND, 2 miles from town, large 6 room house, cement walks, barn 32x46, stanchion for 10 cows, cement floors, 2 wells, windmills, 25 a. alfalfa, 10 a. hog tight, 160 a. grass. Not an acre of waste, in fine neighborhood; is worth \$75 an a. Can sell for a short time for \$60. Owner is old and in poor health. J. W. Bradshaw, Herington, Kan.

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NOTICE TO HOMESEEKERS—If you want homes in Coffey Co., Kan., please write for lists. Andrew Burkner, Burlington, Kan.

KAY COUNTY, OKLAHOMA—CORN, wheat, oats and alfalfa farms. Call on or address Hull, Cullen & Van Winkle, Ponca City, Okla.

POULTRY.

WHITE WYANDOTTE EGGS—MODEL Poultry Yards, Hanover, Kan.

100 BARRED ROCK CKLS. AND FEMALES, prize-winning strain, 85 premiums, 30 yrs. experience. Eggs, \$2 per 15; \$5 per 50. Chris. Bearman, Ottawa, Kan.

FINE BARRED ROCKS—GOOD LAYERS, farm range, eggs, \$1.00 for 15 or \$1.75 for 30, or \$5 per 100. Mrs. John Yowell, McPherson, Kan.

SILVER WYANDOTTES—PRIZE WINNING strain, Kansas and Kentucky's best. Open range. Eggs: 15, \$2. Mary Gordon, Baker, Kan.

EGG FROM A FINE LAYING STRAIN of Rose Comb Brown Leghorns. Mrs. J. E. Wright, Willmore, Kan.

INDIAN RUNNER DUCKS—GREAT LAYERS. Eggs \$1.25 per 15. Also Silver Wyandottes, \$1.25 per 15. Tillie Culver, Garretts, Kan.

SINGLE COMB BROWN LEGHORN hens from best laying and show strains in the United States \$1 each. Eggs, 25 for \$1, \$3.50 per 100. Col. Warren Russell, Odessa Farm, Winfield, Kan.

HILLCREST FRUIT & POULTRY FARM—Barred Rock eggs from prize winning stock, \$1 for 15; \$5 per 100. Route 4. Phone Ind. 2180-Ring 1, North Topeka, Kan.

ELEVEN YEARS BREEDER AND SHIPPER of Single Comb White Leghorns. I guarantee safe arrival of eggs. 17, \$1.00; 50, \$2.50; 100, \$4.00. Your success is mine. C. O. Kelley, Dunlap, Kan.

WHITE PLYMOUTH ROCKS—EXCLUSIVELY—large birds, good layers, farm range. Eggs May 1st, \$4.00 per 100; 2.50 per 50. Etta L. Willett, Lawrence, Kan., R. R. 5.

FULL BLOOD HOUDANS, GREATEST layers known. Hatch and do well during summer months. Eggs \$1.25 per 15. S. P. Green, Mankato, Kan.

PURE S. COMB BROWN LEGHORNS—Eggs from prize-winning stock. Eggs safely packed 30 for \$1.50; \$4.00 per 100. A. G. Dorr, Osage City, Kan.

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SLIGHTLY USED INCUBATORS AT A bargain. Will exchange for Leghorn stock or eggs. A. Koenig, Hanover, Kan.

FEW ORDERS TAKEN FOR FINE Pheasant eggs, 3 varieties. 1253 Clay St., Topeka, Kan.

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FOR SALE—FOUR RED SHORTHORN bulls from 13 to 28 months old, eligible for record. J. Thorne, Kinsley, Kan.

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To Grow Good Tobacco.

To make a heavy crop or large yield of tobacco requires fertile soil well fertilized, and thoroughly prepared. The fertilizer used should contain a large percentage of potash and nitrogen; this gives quality and size to the leaf. I am thoroughly convinced that a much heavier yield of tobacco can be made than is the case at present if more care and attention be taken in preparing and fitting the land, and to use better fertilizers suited to the growth of this crop.

See that the soil is prepared in the finest condition possible before attempting to set out the plants. Every tobacco grower knows that this is a fine-rooted plant, hence it is very essential that the soil be in the best pulverized condition that can be had for the plants to thrive and do their best. After breaking the land, thoroughly work and rework with the disk harrow, then follow the same process with a good heavy drag until the finest seed bed possible is secured. This not only gets the soil in prime order but gets the fertilizer thoroughly mixed with the soil which causes the plants to grow off rapidly and they continue to do so if the soil is frequently stirred.

After the crop is set out do not wait to commence cultivation until the weeds are nearly as large as the plants. Cultivation should commence just as soon as the plants are well rooted and begin to grow, and keep up this regularly, which keeps the soil always mellow and loose, therefore retaining moisture, which is very essential. The hoe should also be used frequently until the plants are

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A choice lot ranging in age from 12 to 20 months, sired by Mystic Baron; all good ones, in fine shape. Among them are some choice herd headers. Prices right. Visitors welcome. Write your wants.

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SCOTCH SHORTHORNS

A few choice heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd. **C. H. WHITE,** Burlington, Kan.

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Have on hand a few young red bulls ready for service that are out of splendid milking dams and have good beef form. No better breeding could be wished. Can spare a few females. Prices moderate.

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Five extra good Scotch and Scotch topped bulls, 10 months old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight. Priced right.

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Scotch Shorthorn cattle and 20 bred sows and a few good spring boars of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell phone.

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The Cruickshank Clipper bull, Scottish Archer 228319, sired by Victor Archer 22810 and out of Imp. Noamis Ruth 2nd. An extra good individual and sire but cannot be used in herd longer to advantage, and will be priced reasonable.

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All bred to a pure Scotch Bull or have calves at foot, all registered and in fine condition, also two choice Scotch bulls. My prices are low. Come and see me. We can trade.

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Offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept.

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I have ready for service a few grandsons of Merry Maiden's Third Son, Financial Count, Eurybia's Son and Fontaine's Eminent. Prices and extended pedigrees upon application. These bulls will make excellent dairy sires and are fit to head any herd registered in A. J. C. C. W. N. BANKS, Independence, Kan.

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Offers eight sons of King Walker 40358, whose dam and granddam have A. R. O. record of over 30 lbs. butter in 7 days each. Dams of this lot of bulls have A. R. O. records as follows—27.89 lbs. at 4 years; 26.12 lbs. at 4 years; 25.19 lbs. at 4 years; 23.56 lbs. at 3 years; 21.35 lbs. at 3 years; 18.98 lbs. at 3 years; 18.28 lbs. at 4 years; 17.27 lbs. at 4 years, and correspondingly high milk and butter records for 30 days. They range from 15 months to 20 months in age. Every one an extra good individual and in fine condition. Tuberculin tested. They are by far the choicest lot of bulls ever offered west of the Mississippi river. Don't buy the cheap kind if you would expect the best results. Write for description and prices. **F. J. SEARLE, Prop.,** Oskaloosa, Kan.

DUROC JERSEYS**DUROC HERD BOAR FOR SALE.**

Skadden's Wonder 74645, the best living son of Nebraska Wonder. An excellent breeder and individual. Out of litter of 13. Just in his prime. Will price to sell.

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W. R. Stump Visited.

One of the young Kansas Poland China breeders who is making good is Mr. W. R. Stump of Blue Rapids, Kan. Mr. Stump breeds the big type and has in service at this time a son of Captain Hutch and a son of Granite. He has about 100 choice pigs mostly by these boars. One good litter by Colossus contains some herd boar material. Mr. Stump's sow herd contains some great sows, among them many rich in the blood of old Over Chief, First Quality, etc. November 10 is the date of his fall sale.

DUROC JERSEYS

QUICK SALE**W. C. WHITNEY,**

DUROC JERSEYS

Fall boars of best of breeding and quality at bargain prices for quick sale; also a few bred sows for June farrow of the best of breeding and bred to good boars. Write at once.

AGRA, KANSAS**20 Duroc Jersey Gilts**

Large Spring yearlings bred for Summer litters. These are large with lots of quality. The best of breeding, priced reasonable. Write today, they are bargains. **MARSHALL BROS.,** Burden (Cowley County), Kan.

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Herd headed by Climax Wonder, he by Missouri Wonder, 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time.

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Write for Prices.

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I HAVE A GOOD bunch of spring pigs of both sexes; up-to-date breeding with plenty of quality. Write me your wants and I will treat you right.

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Duroc sows and gilts sired by Bell's Chief 4th and bred to richly bred boars. Will sell and ship when safe.

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Sired by First Choice, he by Grand Chief. Gilts bred to Little Bear, a grandson of On and On. Those offered for sale are the tops of a large bunch. The gilts and the price will please you. Write right now to **Young & Kimmerling,** Glasco, Kan.

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The Farmers' Kind. The Prolific Kind. I am now booking orders for spring pigs to be shipped when weaned. Pairs or trios; no kin.

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Herd headed by Big Hadley, John 2d and John Ex. Young stock for sale at all times. A few choice Hadley boars.

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Headed by Mogul's Monarch 45858 and Capt. Hutch 39068. Over 100 choice pigs to select from. Visitors made welcome. Also Barred Rocks.

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For sale at reasonable prices. Four choice boars of August farrow. Spring pigs for \$12.50 each. Our aim—quality, size and good breeding.

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POLAND CHINAS WITH SIZE.

Headed by Pawnee Look. I have bred pure bred Poland for 20 years and have learned many valuable lessons, and in the future shall breed nothing but the big smooth kind. More hog and less hot air.

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WALTER'S BIG SMOOTH POLAND CHINAS.

Expansive, one of the best living sons of Expansion, heads herd. A few choice fall gilts bred to Expansive for fall litters for sale.

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MEISNER'S BIG POLAND CHINAS.

Headed by Metal Choice, sows are daughters of such sires as Nebraska Jumbo, Pawnee Chief, Big Hadley, etc. Fifty fine spring pigs to date and more sows to farrow. Inspection invited.

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10 January boars, \$15 each. 15 January gilts, \$15 each. 17 yearling gilts bred for August and September farrow, \$30 each. Good breeding and individuality.

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STRYKER BROS.' HERD POLAND CHINAS.

The greatest show and breeding herd in the West. Write your wants and they will please you. Hogs any age at reasonable prices. Buy the best and make the most. They breed the kind that win; the kind you want. Address **Striker Bros.,** Fredonia, Kan.

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DUROC SOWS and GILTS

30 fall gilts by G. C's Kansas Col. and 15 yearling and matured sows, all by noted boars. Will sell and hold until safe for fall litter. Also 10 fall boars, tops of our fall crop.

CHAPIN & NORDSTROM,

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"DUROCS GROWN IN THE OZARKS."

Ohio Chief and Col. blood. Litters by Muncie Chief, Model Prince, King of Models, Inventor, The King I Am, Advance; several by Col. Carter, my leading herd boar. They are all grown right, are good and we answer all letters of inquiry.

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BERKSHIRES**RIDGEVIEW BERKSHIRES.**

Two herd boars for sale. One 2-year-old by Forest King. Other males of different ages. Sows and gilts open.

Manwaring Bros., Lawrence, Kan.**POLAND CHINAS****YEARLING BRED GILTS \$30 EACH.**

BIG STRONG SEPT. BOARS. Sired by Guy's Monarch, the boar with frame for 1,000 lbs., and a 10 1/4-inch bone. Out of dam by the noted boar First Quality. Low prices for quick sale, must make room for spring pigs.

H. C. GRANER,

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30 BRED POLAND CHINA GILTS for sale. Spring and summer farrow, bred for April and May litters, choicest blood line, also five mature sows and boars ready for service, one by Meddler. Reasonable prices.

F. D. FULKERSON, Brimson, Mo.

MELBOURNE POLAND CHINA HERD. The home of the great boar, Gold Metal, 90 good pigs will make prices after July 1. Sows are daughters of Prince Youtell, Chief Gold Dust, etc. Visitors welcome.

JOHN C. HALDERMAN,

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20—BIG STRONG BOARS—20

The tops of 50 head ready for service. Want to make room for spring pigs and am making low prices. Strictly big type.

HERMAN GRONNIGER & SONS,

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10 Summer yearling Poland China gilts, by On and On 2nd, bred for June and July farrow to Filbuster by Meddler 11111, \$30 for choice. **J. D. WILLFOUN,** Zeandale, Kan.

SHORTHORNS AND POLANDS.

Herd bull Acomb Duke 7th 281036. Poland headed by Big Bone Long. Females represent leading strain. Young stock for sale.

FREELAND & WILLIAMS, Valley Falls, Kansas.**FOR SALE**

I STILL HAVE a few good fall boars for sale at very reasonable prices; will also offer my 2-year-old herd boar, O. K. Chief. He is a good individual of the 800-lb. type, heavy bone, a good even breeder.

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BLUE GRASS VALLEY STOCK FARM. Big boned Poland Chinas. Herd headed by Big Hadley, King Ex. 3d, Long John the 2d and Missouri Wonder, 4 of the best breeding boars of the breed; young stock for sale at all times; everything guaranteed as represented. **W. A. Baker,** Butler, Mo.

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MISSOURI VALLEY HERD. Pure bred Ohio Improved Chester White swine. Few Sept. gilts for sale either bred or open. Booking orders for early spring pigs. Satisfaction guaranteed.

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MAPLE LEAF O. I. C's. Strictly up to date Imp. Chester Whites of the best breeding and individuality. A few choice fall gilts and a fine lot of spring pigs to offer. Prices reasonable.

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Write right now to
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35,000 acres in McMullen Co., Texas, all good, level land, black, sandy loam; price \$10.00 per acre.
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200 acres near Marquette, McPherson Co., Kansas. Well improved. Price \$10,000.

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Lands in Trego county, Kansas, where prices are advancing rapidly. Best opportunities in Kansas for homeseeker and investor. Write for our list, mailed free and postpaid. Live agents wanted.

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160 acres, 3 miles town, 110 cultivation, balance pasture, 4-room house, barn, 65 acres wheat, all goes with possession, \$6,500. Easy terms. New list free.

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344 acres adjoining town, highly improved. Six acres alfalfa, 5 miles fence, mostly woven wire. Further particulars write

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Offers bargains in wheat and alfalfa ranches at \$10 to \$20 per acre. Write for my price list and investigate at once.

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Banner Wheat and Corn County of the State. Write for Selected List.

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794 a. fenced, 400 a. cultivated, 200 a. more fine land, balance pasture, 7 a. alfalfa, hog tight. Orchard and other trees. Fine 7 room house with bath, large barn, granary, hen house, cattle sheds, blacksmith shop, etc., water service complete. Rural route and phone line, 8 miles to county seat. \$35 per acre; 1-3 cash; balance time. 100 other bargains in Ellis and Trego counties. **D. W. Nickles, Hays, Kan.**

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In Chautauqua Co., Kan., 2040 acres, good improvements, good grass, plenty of living water, only two miles from railroad station. Will sell at a bargain or take some trade.

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Farms, ranches and city property. Some of the best wheat, corn, alfalfa and hay land in the West. Also good business propositions in Hoxie. For further particulars write us.

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SUBURBAN LIFE of New York is one of the largest and most powerful outdoor magazines published. The regular subscription price is \$3 per year and by special arrangement we are able to offer to readers of the **KANSAS FARMER**, three months' subscription to **SUBURBAN LIFE**, absolutely free.

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NOTICE TO HOMESSEKERS: If you want homes in Coffey County, Kan., please write for lists of land. **Andrew Burger, Burlington, Kan.**

Ellis and Trego County lands at the lowest prices on the best terms. Write for list, sent free.

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IF YOU WANT

To buy Trego County corn, wheat and alfalfa land, at \$15 to \$40 per acre, write for free information about this section.

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Where prices are advancing rapidly, at low prices on liberal terms. Near markets, churches, and schools. Write for prices and descriptions.

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FREE

List of lands, ranging in price from \$10 to \$30 per acre, well located, near churches, schools and markets in Rawlins and Cheyenne counties, Kan., and Hitchcock Co., Neb. Send your name today. **S. C. ALLEN, Herndon, Kan.**

1120 ACRE COMBINATION RANCH.

25 head horses and colts, above average, and one registered Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Artesian Valley at a great bargain. **WM. MILLER, Meade, Kansas.**

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Buy 280 a. good Kiowa Co. sandy land at \$20. 160 a. 2½ miles of Co. seat, \$500. 640 a. well improved, 3 miles Co. seat, \$50. Other bargains.

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\$15 to \$25 per acre. Buy now and you will double your money soon. Write for prices, descriptions and full information. List free.

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IF YOU ARE INTERESTED IN CENTRAL KANSAS, WESTERN KANSAS OR COLORADO LANDS FOR A HOME OR INVESTMENT, STATE YOUR CHOICE TO C. C. WALLACE, BROOKVILLE, KAN.

A CHEAP IMPROVED quarter, fine 160 acre farm located seven and one-half miles from Goodland, Sherman county, Kansas. Fine land, fine level road, good comfortable improvements such as house, barn, small granary, fenced, 70 acres in cultivation. Price \$20 per acre.

G. W. Sapp, Goodland, Kan.

ASK WHY LAND IN SHERMAN CO., KANSAS

Will make the investor or the farmer money, purchased at present prices. Many inducements here that are not to be found elsewhere.

T. V. LOWE REALTY CO.,

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SOLOMON VALLEY LAND.

80 a. improved, 3 mi. to market, 40 a. pasture, 40 a. tiled, \$2,000. 640 a., 320 a. can be plowed, creek through this section, 5 mi. to market, \$12,800. 400 a. all grass, one-half tillable, 5 mi. to market; terms: \$6,000, 160 a., 4½ mi. out, all good land, 80 a. broke, terms, \$3,800. Other farms for sale and exchange. List free.

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240 ACRES within one mile of Rexford, all smooth, tillable lands, good seven-room house, nearly new, good barn with hay loft, hen house, hog house, corn crib, granary and stock shed, 130 acres in cultivation. Price \$7,500. Many other bargains located in Sheridan and Thomas counties, Kansas. Also Colorado land from \$8 per acre up.

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SHERMAN COUNTY LANDS, where prices are advancing rapidly, \$12 to \$30 per acre, good terms. Gulf and Northwestern Railroad now building at Goodland. Unexcelled opportunities for homeseeker or investor. Now is the time to buy, and you will double your money shortly. Write for free illustrated literature.

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160 acres nice, smooth land, 2½ miles city limits of Parsons, Labette county, 5 room-house, good barn, 6 acre family orchard, 8 fenced hog tight, 50 prairie meadow, 20 blue grass and blue stem pasture, balance in cultivation. R. F. D. and telephone line, \$50 per acre. Good terms. Also 320 acre stock and grain farm, Linn Co., \$25 per acre; easy terms. Other Missouri and Kansas farms.

THE STANDARD LAND CO.,

Room 4, Kicksecker Bldg., Kansas City, Mo.

FOR FREE INFORMATION about Allen county lands write **F. W. Frevert, 51 years a Kansan, Gas City, Kan.**

IMPROVED FARMS in S. W. Kansas and N. W. Oklahoma, \$10 to \$25 per acre. Write **Moore & Falls, Liberal, Kan.**

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Dickinson County corn, wheat and alfalfa farms. Write today. **Baumgarth & LaPort, Abilene, Kan.**

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Montgomery County is second in population and 6th in wealth in Kansas. Write for list of choice farm bargains and prices. **W. J. BROWN & CO., Independence, Kan.**

CHOICE KANSAS FARMS in Smoky Valley, Saline and McPherson counties, where you can raise alfalfa, corn and wheat with profit. Write for information and list. **David Bachman, Lindsborg, Kan.**

MARION, MORRIS AND DICKINSON County, Kansas, lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list. **T. C. COOK, Lost Springs, Kan.**

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A well improved 10,000 a. ranch in Sherman Co., \$10 per a., easy terms, also other smaller ranches and 100 scattering quarters and half sections from \$9 to \$12 per a. **M. ROBINSON, The Land Man, Goodland, Kansas.**

154 ACRES, 2 miles from Cottonwood Falls and the same distance from Strong City, on Santa Fe, 70 acres of alfalfa, 60 acres in corn, and 4 acres in orchard and lots. House, fair barn and outbuildings, 2 wells with windmills. Price \$80 per acre. **J. E. BOCOOK, Cottonwood Falls, Kan.**

CORN, WHEAT AND ALFALFA LANDS. In Cloud, Washington and Republic counties, where all staples produce bountiful crops and prices are advancing rapidly. Best section in Kansas for a home or investment. Write for a free list. **Nelson Land Co., Clyde, Kan.**

LIVE AGENT WANTED.

In your locality to assist in selling corn, wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining counties. Write us for a proposition on our own ranches.

Frizell & Ely,

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SHARON COUNTY ALFALFA LANDS. Choice corn and alfalfa farms for sale in Barber county, Kansas. Crop failure unknown. Write for particulars and list. Address

WILLIAM PALMER,

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320 acres Meade Co., Kan., small house, good well and windmill, barn, all fenced, 175 acres in wheat, all of which goes to purchaser, 7 miles of Plains, Kan., close to school and church. Write for others.

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Home of corn, alfalfa and wheat. Lands \$25 to \$75 per acre that would be cheap at twice the money. Values advancing rapidly. Now is the time to buy. Description and full information free.

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CROOKED CREEK VALLEY LANDS. Have several tracts, 80 to 1,000 acres. Water 25 to 40 ft. Raise alfalfa, corn, wheat. Eight miles Fowler. \$20 and up. Terms.

Fowler, BOX 88, Meade Co., Kansas.

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100 a. farm lying 7 miles S. W. Corning, 90 a. corn land, 8 a. prairie meadow, 2 a. fine orchard. Land not rough, stony, nor ditchy. Good 5-roomed house, barn and other outbuildings, extra good water, 1 mile to school. R. F. D. and phone line. Can be bought on March 1, settlement 1911 at \$60 per a. Good terms. Other propositions. **C. E. Tinklin, Corning, Kan.**

FINE TOWN PROPERTY CHEAP—12 blocks in the city of Coldwater, two story frame house of 9 rooms, pantry, refrigerator room, four closets, cellar and storm cave connected with the house, coal house, chicken house, granary, barn and buggy shed, hundred barrel cistern, well, windmill and tank, fruits of all kinds. Price \$4,500. Call on or address **P. H. Thornton, Coldwater, Kan.**

TREGO COUNTY LANDS.

If you are looking for a snap, here it is. 160 acres, all in cultivation, ¼ to go with it. All perfectly level, German Lutheran neighborhood, 12 miles south of Wakeeney. Price \$3,500, \$1,200 cash and balance in five equal annual payments. Write us for other bargains.

KANSAS AND COLORADO LAND CO.,

Wakeeney, Kansas.

WILSON CO. FARM at a sacrifice. 235 a. clear and free of all incumbrances, by the owner: ¼ mi. to R. R. and town. Buff City: 3 mi. to Altoona, 5 mi. to Neodesha, Kan. Farm can all be cultivated, 60 a. timothy, 20 a. alfalfa, 20 a. prairie, balance in corn, wheat and other small grain. Good as new 5 r. house, new barn and 6 other outbuildings. Cistern, 2 wells and windmill, 160 a. hog tight and divided. **A. T. O'Donnell, 4116 Penn. St., Kan. City, Mo.**

JUST LIKE STEALING

To take this beautiful half section in Cowley Co., only 8 miles from a good R. R. town, in a fine community, school, church and stores, only ¼ mile; free phone, rural route, 5-room house, cistern, good stable, well finest water in the state, pond, two orchards, 100 acres cultivation, bal, splendid bluestem pasture, can all be tiled but 20 a. level, upland country farm, smooth and level; soil is a deep black limestone loam, average over 40 bu. of corn per a. last year; grows alfalfa perfectly; only \$30 per a. for a short time; you'll have to hurry, this won't keep; \$5,000 cash, balance back; talk fast; it's money for you.

SHARP REALTY CO.,

Turner Bldg., Wichita, Kan.

H. J. SETCHELL & SON, Real Estate, Morland, Kan. Send for free list of Graham and Sheridan county lands.

FOR REPUBLIC COUNTY

corn, wheat and alfalfa lands, at reasonable prices on good terms. Write or see **Hall & Cartensen, Belleville, Kan.**

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Leads them all, according to Coburn, in corn, alfalfa, poultry, mules, cattle, hogs, honey. Write what you want to

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Mankato, (County Seat) Kansas.

BARGAINS.

Improved ½ section level farm land, 1-4 mile P. O. and school, 250 a. in cultivation, 100 a. wheat, 1-3 crop goes with place. Price \$30 a.; make very reasonable and long time terms. **W. B. Grimes, Owner, Ashland, Kan.**

COWLEY COUNTY BARGAIN.

284 acres, 2½ miles of Arkansas City, 160 acres in Arkansas river bottom land, 40 acres in alfalfa, 120 for corn, 9-room house, bank barn 36x40, small orchard and windmill. Price \$57.50 per acre. Write **R. A. GILMAR, Arkansas City, Kan.**

THIS WEEK'S BARGAINS—Several good stocks good clean general mds. Doing good business; trade for Kansas land worth the money. Now is your opportunity to get into an established business. Cheap wheat and alfalfa lands for sale. **The H. M. Davis Realty Co., Greensburg, Kan.**

KIOWA COUNTY BARGAIN.

160 acres improved, 4 miles to town, 60 acres pasture, 80 acres wheat to purchaser. Price \$4,500. 640 acres hard land, well improved with share of wheat at \$50 per acre. **J. A. BECKETT, Greensburg, Kan.**

WESTERN KANSAS LAND

In Logan and adjoining counties from \$11 to \$25 per acre, according to location and improvements.

T. E. HALE,

Solomon, Kansas.

NEMAH CO. LAND to trade for clear residence property up to \$1,600. This is an 80 acres, 3 mi. from Corning, all tillable, good land. Price \$75 per a. mort. \$1,200. Make propositions to owner. **C. E. Tinklin, Corning, Kan.**

FINE FARM BARGAIN—160 acres, Cherokee county, fenced and cross fenced, 125 a. in cultivation, 35 a. pasture, 400 bearing peach trees, other fruit in abundance; 6-room house, well, barn, windmill, R. F. D. telephone. Price \$32.50 per acre. Write **Mathews & Oglesby, Oswego, Kan.**

COME TO KINGMAN CO.

Where you can raise wheat, corn, hogs, alfalfa and good cattle. If interested, send for our descriptive price lists and maps.

JOHN P. MOORE & SON,

Kingman, Kan.

FOR HOMESSEKER OR INVESTOR.

Kiowa and Cavalry Creek Valleys, Comanche County, Kansas. Alfalfa land \$20 to \$35, rapidly advancing. Great opportunities for homeseeker or investor. Write for our large list of bargains, mailed free and postpaid.

PIONEER REALTY CO., Protection, Kan.

200 ACRES, 10 miles from Delphos, 40 a. pasture, 150 in cultivation, 175 can be cultivated, creek, plenty of fruit for family use. Good house, barn and outbuildings. One of the best corn and alfalfa farms; can be bought for \$75 per acre: ¼ cash, bal. 6 per cent.

Box 114, Minneapolis, Kan.

180 ACRES ¼ mile from "Baker University" townsite; good rich black limestone soil; 9-room house; two barns, hog sheds, large hay barn; splendid corn and timothy land. Well worth the money. Price \$75 per acre.

WM. M. HOLLIDAY,

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THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with religious advanced education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest prices, address the Secretary of the Commercial Club, Topeka, Kan.

I HAVE SOLD my half section near Colby and now offer a fine, smooth quarter 3 miles from Brewster, Kan., no improvements except 40 acres under cultivation, school house across road from it. This quarter is choice and is offered for the small sum of \$2,200 cash.

Another smooth quarter, 14 miles from Brewster, 55 acres under plow, sod house, good well and new windmill, and a bargain at \$2,000 cash.

These are bargains and must be sold soon. Address

IKE W. CRUMLY,

Brewster, Kan.

GOOD FARM WELL LOCATED, 240 acres located 2½ miles from a good railroad town with two railroads and 18 miles from Wichita, 160 acres in cultivation, 60 acres pasture, 30 acres meadow and 15 acres in alfalfa, small cottage, barn, granary and corn crib, all fenced and cross fenced, small orchard. This is a good grain and stock farm with an abundance of fine water to be had near the surface. Owner has retired from farming and is anxious to sell. Price from farming and is anxious to sell. Price call on **The Nelson Real Estate & Ing. Co., 137 N. Main St., Wichita, Kan.**

AN IDEAL FARM FOR SALE.

Kansas farm of 300 acres, adjoining a flourishing railroad town, forty miles west of St. Joseph, Mo. The soil naturally rich has been made more fertile by twenty years of judicious crop rotation and by the liberal application of manure; well watered, fine walnut timber, finest blue grass pastures, alfalfa, timothy and clover meadows; finest corn and wheat land; well fenced; hay, cattle and horse barn for a large amount of live stock; large silo, water tanks, granary, fine mill, etc. A model stock and grain farm, ready for use. An excellent opportunity. For complete information address **K. 225, care Kansas Farmer, Topeka, Kan.**

KANSAS LAND

ROOKS COUNTY.
Corn, wheat and alfalfa make big crops every year. We sell these lands at \$20 to \$75 per acre on good terms. These prices are advancing rapidly. Now is the time to buy and get the advantage of the big increase in land values sure to come. Write for further information.

CASE & WILSON,
Plainville, Kansas.

WALLACE COUNTY, KANSAS
Where land is now selling for \$10 to \$15 per acre. If you buy now you will double your money shortly. The best "buys" in Kansas are to be had here. If you are looking for a good home or money-making investment, write me.

G. G. IMMEL,
Land Agent, Sharon Springs, Kan.

SHERIDAN COUNTY
LANDS MY SPECIALTY. WRITE M. D. GALLOGLY, REAL ESTATE BROKER, HONOLULU, KAN.

GOVE COUNTY LANDS
\$8 an acre and up. If you want a good home, and an investment that will double soon, write me.

THOMAS P. McQUEEN,
Treasurer of Gove Co., Gove, Kan.

Rooks and Graham Co. Land
In any size tract, at \$17 to \$40 an acre, depending upon improvements and distance from town. Write for new list. Mailed free and postpaid.

E. G. INLOW,
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MEADE COUNTY FARMS

400 farms, 160 to 640 acres, improved and unimproved, at \$12.50 to \$25 per a., easy terms. 320 a. 7 ml. Meade, in German settlement. 300 a. fine tillable land, 160 a. cult., price \$6,400. Experienced salesman wanted. CHAS. N. PAYNE, Hutchinson and Meade, Kan.

329-ACRE LABETTE CO. FARM.
Located 2 ml. from good railroad town, 240 a. in cultivation, 16 a. mow land, balance pasture, black limestone soil, good, tame grass, grain and stock farm. Two sets of extra good improvements, plenty of water and fruit. \$50 per a. This is only one of our many bargains. Write for free list.

THE BOWMAN REALTY CO.,
Coffeyville, Kansas.

A SNAP.
3,040 acre ranch, 12 miles this place, creek of fine water running through it, 660 acres good alfalfa land, 800 acres can be farmed, all fenced. Price for 60 days \$11.50 per acre.

WILSON & HAVER, Englewood, Kan.

1,280 ACRE IMPROVED RANCH.
7-room frame house, good barns, granaries and sheds, scale house, dipping vat, fenced, plenty water. 350 acres in cultivation. 14 miles from county seat, 2 miles to new town, on new railroad. A big bargain at \$25 per acre.

KIRBERG & MILLER, Ness City, Kan.

\$1500 CASH WILL TAKE THIS PLACE—160
Heirs must sell 160 worth nearly twice as much for \$3,200, \$1,700, runs 5 yrs. at 6 per cent, 90 black soil in cultivation, balance pasture and meadow, lays well but little waste, improvements fair, 3 miles to town, 1/2 to school, 9 to Coffeyville.

DONAHUE & WALLINGFORD,
Mound Valley, Kansas.

FOR SALE OR EXCHANGE.
Small stock of new and second hand furniture, located in a good county seat town, R. R. division point, good business at a bargain or would take a good quarter of western Kansas land in exchange. Also 1,400 a. ranch, about 400 acres cult., 100 a. old alfalfa, 50 acres new, and 100 acres more will be seeded this year, if not sold; house, barn, windmills, etc. Land not cult., will afford pasture for 250 head stock; only four miles from good shipping point in north central Kansas. Price \$25 per acre, terms to suit. Will take part trade.

LEWIS & ELDRED,
Phillipsburg, Kansas.

OLD MAN'S CHANCE

80 a. joining good live town of 700 pop., good house, stable and other buildings; lots of fruit and berries; 15 a. of hog and cow pasture; small creek of clear, cool, never falling spring water, 60 a. in cultivation, rich, black soil with just sand enough to work nice. Must sell. \$3,000.

B. H. DUNBAR,
Tyro, Kansas.

FOR FREE INFORMATION about Thomas and adjoining counties write to or call on Trompeter & Son, Colby, Kan.

Dietrich & Spaulding, Ottawa, Kan.

Have for sale—5 good last fall Poland China boars; 50 spring pigs of the leading strains of both big and medium types. We can sure please you. One yearling gilt, safe in pig to Band Master; two Sportsman September gilts to be bred to Master Stroke 159999. They are beauties. Write at once if you are interested. Home Phone 1053; Res. 531 Cherry St.

ALFALFA LAND — EASTERN COLORADO

Plenty of rain to grow good crops—You can buy now for \$7.50 to \$15 per acre on terms of about 1-3 cash. Only 20 feet to good water. Will be worth \$60 per acre some day. Buy Cheap Land; It will Make You Money. Write for our free list.

N. B. BURGE & CO., 701 JACKSON ST., TOPEKA, KANSAS

LAND SNAP

80 ACRES, Anderson County, Kan., 6 miles from Greeley, 7 miles from Garnett. 60 a. in cult., balance meadow and pasture, 160 acres, joining Harris, Kan., all tillable, 100 acres in cult., balance meadow and pasture. Price \$55 per acre, well improved.

SPOHN BROS., Garnett, Kansas.

For Exchange

Fine \$30 acre ranch 10 miles of Ottawa, Kan. Owner is an old gentleman and wants smaller farm. Price \$45 per acre. Can arrange for difference on farm. Give full description of what you have to offer in first letter.

MANSFIELD LAND CO.,
Ottawa, Kansas.

FOR SALE

Sherman county lands, in any size tracts on most liberal terms. Write for prices, descriptions and illustrated literature mailed free and postpaid.

IRA K. FOTHERGILL,
Real Estate and Inv.,
Goodland, Kansas.

HAVE YOU ANYTHING TO TRADE?
If you have, list it with Howard, the Land Man, and he will get you something in short order that will suit you. I have farms to trade, automobiles, houses and lots, in fact, everything you can think of that you are likely to want. Talk it over with Howard, the Land Man, Room 15, Turner Bldg., Wichita, Kan.

640 ACRES, smooth as a floor, 2 1/2 miles station, well improved, 6 room house with double cemented cellar, porch nearly around house, large barn, 320 acres fenced with 3 wires and hedge posts a rod apart; 820 acres in cultivation, good well, windmill and tank. Price \$25 an acre. Terms. Other farms at lower prices.

JOSEPH SAGER,
Colby, Kansas.

NESS COUNTY 1,520 ACRE TRACT.
20 per cent good farm land. Living springs, shallow well water, all fenced and cross fenced, some imp., 1 1/2 miles from R. R. town. 250 acres cult'd. Price \$12.50 per acre. Come and see.

J. G. COLLINS, Ness City, Kan.

TREGO COUNTY

Lands for sale or exchange; prices \$15 to \$40 per acre, also city property and stocks of merchandise. If you have a good trade to offer, no matter where it is located or what it is, write us.

ED. PORTER LAND AGENCY,
Wakeeney, Kansas.

WORKING MODEL OF AUTO



ANY ONE CAN DRIVE A CAR-BUT WHEN IT GOES WRONG?

FREE
Not toys, but marvelously ingenious pieces of machinery that teaches one more about the gas engine than you could learn around a full sized one in years. Every part is there. I give them free to students of my course. I guarantee that you can.

LEARN FARM GAS ENGINES AND AUTO ENGINEERING
Including operation and repair, more thoroughly and practically through my correspondence system than by any other means in existence. Right in your own home you can qualify for a well-paid position in the fastest growing industry in the world—a field where good positions are arising faster than men can be trained to fill them. Write me today for full particulars about the most practical and cheapest way to start. **DYKE'S CORRESPONDENCE SCHOOL OF MOTORING,** 3937 "K" Washington Ave., St. Louis, Mo. (First Auto Supply Man in America.)

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Offers a thorough business course. Good boarding accommodations.
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A short run out of Kansas City. Modern buildings on a campus of forty acres. High grade woman's college. Courses leading to A.B. and A.M. degrees. Music, Art, Expression. A very strong faculty. Moderate charges. Write for Catalogue.
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KANSAS WESLEYAN BUSINESS COLLEGE

Wanted 1500 Young People
500 Men
500 Men Bookkeepers
500 Lady Stenographers
Positions Guaranteed.

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320 a. 7 miles of county seat, 3 1/2 miles of R. R. town, 1 1/2 miles to school, 160 a. deeded, 160 a. school land, 4 miles of 4-wire fence, 12 a. alfalfa, fine large orchard, 7-room house, summer kitchen of 2 rooms, 2 barns 46x66 and 40x44, large granary, 2 wells and mills, 2 hen houses, \$28, all the crop as follows, Kafir corn, good soil, 45 a. pasture. Price for 30 days, \$11,000.

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320 acres, 1 1/2 miles south Wagoner. New 7-room house, nice outhouses, good barn, granary, wagon shed, windmill, concrete tanks. Nice bearing orchard, 225 acres cultivation. Can most all be plowed. All good land, good set tenant improvements, 4 good wells, one of the best improved farms in the county. Price \$45.00 per acre. Lots of others. Write for information.

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200 acres, 7 miles from Muskogee, 3 miles of railroad town, all good valley land, living creek water, 20 acres cultivated, balance meadow, all fenced. In white settlement, on main road, close to church and school. Price \$30 per acre. Many other farms, improved and unimproved at \$25 to \$35 per acre.

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160 acres 1/4 ml. of town with two railroads, new improvements, level, smooth deep black loam soil. Price \$90 per acre.

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160 acres, only 4 1/2 miles from Benkelman. \$15.00 an acre, if sold at once. Has about 100 acres good corn land, and about 80 in cultivation. Telephone and rural delivery lines are right there; school 1 mile, one-half down, balance at 8 per cent. Other farms.

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Neb.

IRRIGATED HOMESTEADS.

In the famous North Platte Valley, where Uncle Sam furnishes the water on ten years time without interest. Crops yield \$25 to \$100 per acre. Homesteads at from \$700 to \$3,500, according to improvements. Deeded lands \$75 to \$100 per acre. Free rural mail delivery, telephone and all modern farm conveniences. These lands in splendid settlement of fine homes near town. For particulars write or see

CARPENTER, PLUMMER & MURPHY,

Morrill,

Nebraska.

COLORADO LAND

LIVE AGENTS wanted to sell Washington County land; big crops are being raised every year. Write for offer. The Clary Land Co., Akron, Colo.

CORN, WHEAT AND ALFALFA

Lands in Eastern Colorado at \$3.00 to \$15.00 per acre. Now is the time to buy, and get the big increase in land values bound to come. Write for further information.

S. B. WARREN,

Haswell,

Colo.

HOMESTEAD RELINQUISHMENTS

And cheap deeded lands, Kiowa county, Eastern Colorado. New country, where land is still cheap, but is bound to double several times in the next few years. Write for further information.

LINN & CHERMAK, Haswell, Colo.

KIOWA COUNTY, COLORADO.

Corn, wheat and alfalfa lands \$8 to \$15. Homestead relinquishments \$250 up. Folder and copy of the Homestead laws sent free. A few 160 acre homestead tracts under prospective irrigation yet. THE WESTERN REALTY CO., Enid, Colo.

IMPORTANT MESSAGE TO CATTLEMEN.

250 head Hereford and Shorthorn cattle cows, 2 year-olds, yearlings, and calves, with 160 acres deeded land. Improved and lease on three sections. Plenty water, about 8 miles of fence. Plenty good range. Located about 15 miles railroad town. Can be bought at very low price, if taken at once.

I. H. SHELTON,

Ordway,

Colo.

COLORADO FRUIT LANDS, famous

Non-Fork Valley. Good fruit land with gilt edge water right on Fruitland Mesa. \$50 to \$100 acre, or a nice small tract all set to standard fruit, apples or peaches or both, perfect water rights, fine stand \$225 acre, bearing orchards \$500 to \$1,000 acre. Illustrated booklet mailed free upon request. E. S. Gould & F. D. Willoughby, Hotchkiss, Colo.

GRAND RIVER VALLEY

The famous fruit district of the United States. Fruit lands will pay an average of 20 per cent on the capital invested. Write for free descriptive booklet.

R. H. BANCROFT & CO., Palsade, Colo.

DELTA COUNTY, COLO.

Fruit and all staples produce big crops. Dry lands, \$5 an acre and up. Irrigated lands \$50 an acre and up. We have large list of lands. Write us.

THE PITCHER-NEWVILLE REALTY CO.,

Delta,

Colo.

HOTCHKISS, COLO.

In the best fruit section of the Western Slope. Good fruit land, with water-right, can all be bought for \$100 to \$150 per acre. Values will undoubtedly double and treble soon. Send your name for large illustrated pamphlet mailed free.

O. F. DICKSON & CO.,

Hotchkiss,

Colo.

PAONIA, COLORADO

In the best fruit section of the Western Slope. Fruit land pays 20 per cent per annum on the capital invested. Prices still reasonable, but advancing rapidly. Write for free illustrated folder, containing much interesting information.

C. C. HAWKINS,

Paonia,

Colo.

FIELD NOTES

FIELD MEN.

O. W. Devine,Topeka, Kan.
Jesse R. Johnson,Clay Center, Kan.
R. G. Sollenberger,Woodston, Kan.



PURE BRED STOCK SALES.

Shorthorn Cattle.
June 10—C. S. Nevius, Chiles, Kan.
June 11—H. E. Hayes, Olathe, Kan.
Nov. 15—J. E. Jones, Clyde, Kan.

Jersey Cattle.
June 30, 1910—Kinloch Farm, Kirksville, Mo.

Hereford Cattle.
Nov. 10—T. I. Woodall, Fall River, Kan.

Poland Chinas.

August 10—G. A. King, Cullison, Kan.
Aug. 11—E. H. Davidson, St. John, Kan.
Sept. 20—J. D. Spangler, Sharon, Kan.
Oct. 5—Homer Gruver, Spring Hill, Kan.
Oct. 12—W. B. Stafford, Bronson, Kan.
Oct. 13—Bert G. Wise, Reserve, Kan.
Oct. 14—T. J. Dawe, Troy, Kan.
Oct. 15—J. B. Whipple, Fall City, Neb.
Oct. 18—Herman Groninger & Sons, Bendena, Kan.

Oct. 19—A. B. Garrison, Summerfield, Kan.
Oct. 20—Hubert J. Griffiths, Clay Center, Kan.

Oct. 21—J. M. Ross, Valley Falls, Kan., and W. E. Long, Ozarkie, Kan., sale at Valley Falls.

Oct. 22—H. C. Graner, Lancaster, Kan.
Oct. 25—W. C. Singer, Hiawatha, Kan.

Oct. 26—W. R. Webb, Bendena, Kan.
Oct. 26—G. M. Hull, Garnett, Kan.

Oct. 27—Walter Hildwein, Fairview, Kan.
Oct. 28—J. H. Harter, Westmoreland, Kan.

Oct. 28—I. R. Berkey, Louisburg, Kan.
Nov. 1—H. B. Walter, Effingham, Kan.

Nov. 1—H. E. Phelps, Humboldt, Kan.
Nov. 2—J. W. Phelps, Chanute, Kan.

Nov. 2—Albert Smith & Sons, Superior, Neb.
Nov. 2—R. J. Peckham, Pawnee City, Neb.

Nov. 3—George W. Smith, Burchard, Neb.
Nov. 3—D. W. Evans, Fairview, Kan.

Nov. 4—Bert G. Wise, Reserve, Kan.
Nov. 4—White Bros., Buffalo, Kan.

Nov. 9—T. J. Melsner, Sabetha, Kan.
Nov. 10—W. R. Stump, Blue Rapids, Kan.

Nov. 11—S. B. Amcoats, Clay Center, Kan.
Nov. 16—W. A. Prewett, Asherville, Kan.

Nov. 19—G. W. Roberts, Larned, Kan.
Jan. 18—H. F. Phelps, Humboldt, Kan.

Jan. 19—J. W. Phelps, Chanute, Kan.
Jan. 20—Roy Johnston, South Mound, Kan.

Your Choice \$75 Per Acre.

Three high class improved Northwest Missouri farms are offered by Basil J. Meek, Chillicothe, Mo. Mr. Meek is the owner of these tracts and informs us that they are the very best for corn, clover and blue grass, no crop failures. Mr. Meek has a few soil maps of Missouri prepared by the state which he would be pleased to send you absolutely free. Go and see these farms or write Basil J. Meek, P. O. Box 307, Chillicothe, Mo.

The Missouri Auction School, August 1, 1910.

The Missouri Auction School, of Trenton, Mo., has, under the capable management of its president, Col. W. B. Carpenter, of Trenton, Mo., forged to the front until today it is recognized as one of America's foremost schools. The last term of school in January found 121 students in attendance. The prospects now are for a much greater attendance at the next session. Mention the Kansas Farmer and write Col. Carpenter for full information.

Opportunities for Veterinarians.

There is a general call from all over the United States for good veterinarians, those who have qualified themselves as such are enjoying prosperity. For a very small tuition the St. Joseph Veterinary College, located at St. Joseph, Mo., can fit you for a good position in your community. Write them for illustrated catalog which contains full information. Kindly mention Kansas Farmer. See card under Schools and Colleges in this issue.

L. E. Klein, a young Poland China breeder of Zeandale, Kan., is making nice progress, and has a good bunch of spring pigs, mostly out of Expansion bred sows. He has recently purchased from J. H. Harter of Westmoreland, Kan., the great breeding boar, Toulon Prince. It took a good price to secure this boar but the investment is sure to prove a good one for Mr. Klein.

The writer last week visited the Eureka herd of Duroc-Jersey and Poland China swine owned by W. H. Sales of Simpson, Kan., and found him with a nice bunch of each breed on hands. Mr. Sales will not hold any public sales this year and that means the top of his bunch will go out on mail orders. Let him know your wants and he can supply you in either Duroc-Jerseys or Poland Chinas. Orders booked now for spring pigs.

To the Editor:—Our advertising in the Kansas Farmer for our Poland China sale was very satisfactory. We advertised in three farm papers and received at least three-fourths of all of our catalog inquiries from Kansas Farmer readers and these came from three different states. This proves to a certainty that the Kansas Farmer is read by breeders and farmers far and near and is the best paper to advertise in.—E. J. Manderscheid, St. John, Kan., Breeder of Poland China Swine.

Hammond's Durocs.

G. M. Hammond, the successful breeder and exhibitor of Durocs, located at Manhattan, Kan., has 250 spring pigs sired by 14 different boars. About one-third of them are by the great show boar, Tattarrax. Others by Mr. Hammond's herd boars G. M.'s Care, Col. Tat Orion and G. M.'s Col. Tattarrax seems to improve each year and now in his 3-year-old form is smoother and a more perfect hog in every way than ever before. It is Mr. Hammond's intention to make a number of the best state fairs this season. That he will get away with considerable of the blue almost goes without saying.

Scotch Herd Bull.

Any Kansas Farmer reader who is in the market for a herd bull should investigate S. B. Amcoats' proposition in this issue. Mr. Amcoats offers to sell at a moderate price his pure Scotch bull, Scottish Archer. This bull will weigh about 1,800 pounds and is 3 years old, just in his prime. He is solid red and won at local fairs last season. He is a good type and has proven himself to be an extraordinary good breeder. His heifer calves are especially fine. Drop Mr. Amcoats a line at Clay Center, Kan., for complete description of this bull.

C. O. Anderson's Durocs.

One of the most interesting breeders of Durocs is Mr. Carl O. Anderson of Manhattan, Kan. Mr. Anderson, although still quite a young man, has already accomplished more than a good many breeders. The past season he has sent out on mail orders over 90 Durocs. It is indeed refreshing to meet and talk with a man of Mr. Anderson's caliber. He is a broad gauged man and knows the business thoroughly. He is not an extensive buyer but buys a few good ones each year. Mr. Anderson has made a marked success in his favorite calling, and has done it all without much help, starting without a dollar and with no experience.

Goethe's Durocs.

T. E. Goethe of Leonardville, Kan., has 125 of the best spring pigs ever seen on the farm. They are sired by Big Crimson, a son of the \$500 Champion Chief, Walnut Wonder by Lincoln Wonder and a good son of the boar that won first at pig at Nebraska State Fair two years ago. The dam of Mr. Goethe's boar is the quite noted sow Miss Bob. The pigs are out of 19 sows, daughters of such sows as Nebraska Wonder, Kant Be Beat, King or Cols. 2nd, G. C.'s Col., Lincoln Top, Model Chief Again and Attractive Chief, the best son of Red Raven. Mr. Goethe authorizes us to claim Feb. 13 as the date for his bred sow sale.

Big Jersey Cattle Auction.

Doctors Still and Laughlin, proprietors of the famous Kinloch Farm Jerseys, will hold their annual spring sale at Kirksville, Mo., on Thursday, June 30. This sale will perhaps be the greatest sale in the history of their operations as breeders of Jersey cattle. The offering will consist of 150 head, about half of which will be imported cattle. Dr. Still made a trip to the island in the early spring and selected the cattle himself which fact is within itself a guarantee of the quality of this part of the offering at least to those breeders who know Dr. Still personally. The greater part of the entire offering will be cows with calves at foot and bred heifers. A lot of very choice heifers richly bred with beautiful colors will be bred to the great bull, Viola's Golden Jolly, one of the greatest sires of the breed. Others to the magnificent young bull, Bestrice Stockwell, a cut of whom appears in the advertisement in this issue. There won't be a cow or heifer included in the sale that is not in calf to a noted bull. Start right by buying one or more good ones at this sale. Those interested and unable to attend can send buying instructions to Jesse Johnson, representing this paper.

A Fine Opportunity for Young Men.

Ambitious young men are always looking for permanent work at good wages, with opportunity for advancement. It is very generally known that the electrical business offers remarkable opportunities to young men, and this is especially true of the electric railways, operating city lines and interurbans. Thousands of motormen and conductors earning \$60 to \$100 a month are employed annually on the cars of these railways. Their duties are pleasant and agreeable and the opportunities for advancement are excellent. The electric railway business is growing, wages are increasing and prosperity is everywhere evident. To the ambitious young man anxious to get the best results for his efforts we can recommend the positions of motormen and conductor, and these positions may be secured easily and quickly at small expense through the assistance of the National Railway Training Association, Kansas City, Mo., whose advertisement appears on another page.

A Few Scotch Cattle.

Stewart & Downs, of Hutchinson, Kan., are offering a few choice cows and heifers for sale. They are nicely bred. Most of them are pure Scotch, part of them are sired by the great show bull Forest Knight by Gallant Knight a bull with wonderful scale and feeding qualities and a bull cattle. A large number of these cows and heifers are bred to the large roan bull Victor Archer, sired by The Archer and out of a Gallant Knight cow. A full sister to Victor Archer was sold at the Kansas City Royal last year for \$500 and Archer, his sire, was sold to head one of the good herds in Nebraska. If you need a few good cattle look up the ad of Stewart & Downs and write them for prices. Mention Kansas Farmer.

On another page in this issue will be found an advertisement of the Wichita Commercial College. This school is the oldest and one of the strongest of its kind in the state, and is a very conservative advertiser. The Wichita Commercial College never places an "ad" unless it can reach a desirable class of people. The Wichita Commercial College has been in one continuous session for the past seventeen years, and this of itself assures you that it is substantial and deserving of your patronage. Any person wishing to acquire a thorough business education can find no better school in the southwest than the Wichita Commercial College. Look up their advertisement in this issue and write them for information. Mention the Kansas Farmer, and you will get a prompt and courteous reply.

The Wichita College of Music.

Located at Wichita, Kan., is now recognized as the leading college of music in the entire southwest. A diploma from this institution is an assurance that the student is well qualified to accept a position with any school or conservatory. Many graduates from this college are receiving from \$1,000 to \$2,000 per year for salaries as teachers. For the summer months June to September all departments will be complete consisting of piano, voice culture, violin, pipe organ, violin, cello, dramatic art, elocution, band instruments, school of opera, theory of music and orchestra training. For price of tuition and other particulars write for 60-page illustrated catalog. Address: Wichita College of Music, 215 N. Lawrence, Wichita, Kan. See further announcement under School and Colleges on another page of this issue.

A New Percheron Secretary.

Prof. Wayne Dinsmore of the Iowa Agricultural College has been elected secretary of the Percheron Society of America to fill the vacancy made by the recent resignation of Geo. W. Stubblefield. Mr. Stubblefield has held this office a long time and has done his work well but new interests which he has lately acquired will demand all of his time and he decided to resign. The new secretary is especially qualified for his work through his superior knowledge of horse breeding and his long experience as a careful and accurate office worker. The somewhat remarkable growth that has been made by this association in recent years together with the greatly increased interest in the Percheron breed will demand a strong man in this office, and Prof. Dinsmore is that man.

W. H. Trospen.

Col. W. H. Trospen, the wide awake live stock auctioneer of Frankfort, Kan., starts his advertising in this issue of Kansas Farmer. Col. Trospen is one of the successful auctioneers of Kansas. He understands thoroughly Kansas conditions and needs. He possesses an unusual amount of energy and takes the keenest delight in everything that affects the welfare of the breeders of live stock. Mr. Trospen started without any money and has step by step made his position in life. He is well and comfortably situated now although still a young man. He has his own way of doing things and is one of the most self reliant and resourceful men the writer has ever known. He goes to work the minute he books a sale and never quits until after supper sale day.

H. C. Graner's Good Herd.

Mr. Graner is another of the breeders who believed in the outcome of the big type Poland China hog and fortified himself with a choice lot of sows of superior breeding and individuality. In his herd boar, too, he was fortunate, for Guy's Monarch, bought from J. L. Darst, is proving an excellent breeder. The spring pigs by this boar show size, quality and strength. Guy's Monarch is by Guy's Price 2d by old Guy's Price and is out of a dam by L's Tecumseh 2d. He is a big, strong, rugged fellow, with lots of masculine character. The herd sows are good. Prima Bell by Bell Metal and out of a dam by Highland Prince, is a great big, roomy sow, the type of the best Bell Metal stock. She has an early March litter of four sows and one boar by Colossus. Ohava Lady by Colossus out of an Expansion dam is a tip top individual. Iowa Jumbo by Hadley 183107 has a good litter by Victor, an Expansion bred boar. At the present Mr. Graner is offering for sale a few fall boars by Guy's Monarch. Mr. Graner will price them right.

Searle Buys More Good Ones.

F. J. Searle, owner of the Sunflower herd of Holsteins at Okaloosa, Kan., writes: "I have just returned with a shipment of young service bulls from the herd of 'Indiana's Famous Holsteins, John C. Searle, proprietor, Marion, Ind. This lot of bulls are all sired by King Walker 40358, whose dam and granddam each have over 30-pound butter records for seven days. The dams of these bulls are extra fine Aro

cows with records of from over 18 pounds to over 27 pounds butter in seven days; in fact five bulls of the lot have dams with records that exceed 20 pounds. Individually these bulls are first class, being large, well grown, fine color markings, straight backed, deep bodied fellows. Any of them would be suitable to head first class herds of pure bred, and I hope my efforts to handle none but first class cattle will be appreciated by those wishing to secure the best at a price consistent with extra good breeding and quality."

J. D. Willifong's Polands.

With this issue we start the advertisement of Mr. J. D. Willifong's Poland Chinas. Mr. Willifong is a successful breeder of Zeandale, Kan. His herd numbers something over 200 head, about half of which are spring pigs. Heading the herd is the boar Filbuster sired by Meddler. All of the spring pigs are by this boar and they are an exceptionally uniform, well finished and growthy lot. Mr. Willifong is offering for quick sale 10 bred gilts sired by a son of On and On. They are last summer's gilts with good quality and size. They have been bred for June and July farrow to Filbuster, and are being priced for the very reasonable figure of \$30 each. These gilts are out of richly bred dams such as Daisy by S. P. Perfection, Miss Fairfield by Perfection I Know, Grace by Advance, a son of Chief Perfection 2nd, etc. This proposition should interest anyone wanting something good. Mention Kansas Farmer when writing.

Expansive Poland Chinas.

H. B. Walter, Poland China breeder of Effingham, Kan., has a fine crop of spring pigs. A big per cent of them are by the boar Expansive, one of the best sons of old Expansive. Expansive is an exceptionally good sire of females. He is a boar of wonderful size, and now in his seventh year has the strength and vitality of a yearling. Mr. Walter has about 80 pigs in all, several litters by an Expansion bred boar. Among the attractive litters is one out of a Bell Metal sow with Colossus for their sire. Two good litters are by Mastery 53972, the great young boar bred by Mr. Walter and now heading the good herd of F. A. Tripp, Meriden, Kan. He is of Mogul breeding on sire's side and out of an Expansive sow. Other sows that attract the visitors' attention most are Mogul's Bell by Mogul's Masterpiece, he by old Mogul; Alice Fuller by Big Ex, he by Expansion; Alice Hutch Hadley a good son of Big Hadley the splendid old sow Surprise I Am, one of the best producing sows the writer has ever known. In his card he offers a daughter of the prize winning boar, Grand Lohk, who is bred to Expansive. Mention Kansas Farmer when writing.

Amcoats' Poland Chinas.

The writer recently visited S. B. Amcoats at his home about three miles east of Clay Center, Kan. Mr. Amcoats breeds Shorthorn cattle and Poland China hogs. But the real object of this visit was to ascertain what progress was being made with the hogs and observe to what extent the great young boar, Bell Expand, had stamped his get with his good individuality. We found over 75 pigs, all but three litters by Bell Expand. They are a mighty good, uniform, heavy boned lot of pigs considering what difference exists in point of age. One good litter is by Colossus and out of a What's Ex dam. One litter is by Chief Designer by Designer. This litter is out of a sow by Guy's Monarch, H. C. Graner's great boar. One litter is by Growthy King 52542 and out of a dam by Looks Grand, H. G. Hamaker's noted boar. Bell Expand has made a wonderful growth and his pigs are all that could be desired at their age. Bell Expand was one of the best boars sold at Ben Bell's fall sale. He is a line bred Expansion and in the 1,000-pound class. Other litters are out of sows sired by Hutch, Jr., Orphan Chief, Pan Famo, Boy by Pan Famo, Just Look by Grand Look, and other good boars. Mr. Amcoats claims November 11 as the date of his fall sale. Put this down as one of the good sales to attend.

H. C. Glissmann's Rock Brook Holstein-Friesians.

At Omaha, Neb., last week the Kansas Farmer field man visited the Rock Brook Farm and inspected the Holstein-Friesian cattle of the above farm grazing on the blue grass and clover. Mr. Glissmann will sell at South Omaha, Neb., on June 28, 100 head from this herd, consisting of cows and heifers in milk, young heifers, bulls ready for service, and bull calves. This entire lot of cattle is well bred, representing the cream in breeding. Many show prospects can be found and some which have already gone out and won will be offered in this sale. Mr. Glissmann has already held several successful sales and there is no reason why this one should not be his banner sale. The stuff will be offered in just ordinary flesh there fore you will be able to see just what it is. From the writer's own opinion there will be a large number of lots in this sale that will please the most exacting both in breeding and individuality. None of the cows are past their prime, and most of them are under 4 years old. You will be given the opportunity here to buy anything from a young calf to a matured cow at your own price. Get a catalog; it tells the whole

story. Watch for ad and field note next week, and plan to attend this sale.

New Era in Farm Machinery.

Successful gas engines are now easily obtainable. Cheap power with the highest scientific degree of efficiency is what the farms call for. Besides, simplicity of operation is an absolute necessity, for while the American farmer is a natural mechanic, he should not be compelled to devote any great part of his day's time to watching his engine. Naturally operators of engines are too busy to give them much attention and so the engine must be built with the consequent neglect taken into consideration. In fact the farm engine that wins the farmer's regard today must be "trouble and accident proof." Another point of value to the practical farmer is that engine value simmers down to engine qualities, which are durability, economy of fuel, and up-keep, ease of operation, efficiency and the amount of power developed. Little expert aid should be required. The Fuller & Johnson engine book is about as meaty and compact a bit of farm literature as any issued in years and is actually of tremendous value to the man who is interested in the new era of farm machinery. The "double efficiency" of the Fuller & Johnson engines is told in pictures and text. Hundreds of other points are intelligently handled. Any reader can secure the book by simply addressing a postal card or letter to the Fuller & Johnson Manufacturing Company, 856 North Ave., Madison, Wis.

Alba Dairy Herd, Holstein-Friesians.

At Shenandoah, Iowa, the writer inspected the Alba Dairy and its herd of richly bred Holsteins, owned by Mr. and Mrs. J. E. Guthrie. At present the herd bull, King Segis Heugerd Vale, son of the noted King Segis, who, at only 5 years of age, already has three world's record daughters, and is a grandson of Sadie Vale Concordia, who held the world's record for 2 years. Fifteen calves now on the farm are by Sadie's Cornicopia, whose dam and sire's dam had an average butter record for 7 days of 32.65 pounds of butter and six heifers by the same bull whose three nearest dams tested over 29 pounds of butter per week. Among the cows will be found Johannah De Kol Wit 2nd, who at 2 years old made a butter record of 20.8 pounds in 7 days. De Kol Burke Queen with a record of 23 pounds in 7 days; Alice Clothilde, who is entered in Iowa State Butter Contest, won first in November over 158 other cows entered from the best herds in the state, and, in March when sixth month in milk, made 88 pounds of butter. Catharine Netherland De Kol made during May 80 pounds of butter fat and her milk testing 6.22 per cent. Mr. Guthrie is an alumnus of a four-year-course in dairying at the Iowa State College of Ames, where he specialized in the production of certified milk. After graduation he was given charge of the dairy extension work at the college, leaving later to do work for the United States Dairy Department. Every dairy of note was visited by Mr. Guthrie and the best points of each incorporated in Alba Dairy. The buildings have good drainage, the water supply abundant and uncontaminated—the stables lighted and ventilated and cleaned daily. Here the cows are fed, watered and milked, from where they are then taken to the milking room. This room is of cement, well lighted and thoroughly washed twice each day. From the above you can see Mr. Guthrie is a thoroughly practical dairyman. The cattle of the best and the surroundings ideal. Stock of either sex and of all ages can be purchased here. Everything will be just as represented or no sale. Write your wants.

Joiner's Fall Sale.

J. E. Joiner, the well known Duroc Jersey breeder of Clyde, Kan., will hold his annual fall sale at the farm on Nov. 15, at which time he will disperse his entire herd of Shorthorns and sell about 80 Durocs. He has recently purchased from T. K. Tomson & Sons of Dover, Kan., the excellent young bull, Proud Knight 33494, sired by Bampton Knight. His dam was Miss Phyllis by Lord Mayor. He is a splendid individual and will be used in the herd this summer and included in the fall sale. The foundation of the cow herd came from the McAfee herd and are representatives of the Butterfly and Young Phyllis families.

THE STRAY LIST

Johnson County—Jasper T. Kincaid, Clerk. STEER—1 steer, 1 year old, red, with bush of tall white, valued at \$15. Taken up May 13, 1910, by J. H. Crooks, of Oxford twp., Olathe, Kan.

Johnson County—Jasper T. Kincaid, Clerk. HEIFER—One heifer, 1 year old, red, bush of tall white, valued at \$15. Taken up May 13, 1910, by J. H. Crooks, of Oxford twp., Olathe, Kan.

Greenwood Co.—W. O. Blackburn—Clerk. STEER—1 red steer with white face, wt. 800 lbs., half crop off left ear, blurred brand on left hip, valued at \$30. Taken up Oct. 16, 1909, by G. W. Goss, Bachelor twp.

K. C. S. R. Y.

(Kansas City Southern Railway Co.)

For Health and Recuperation, visit

SULPHUR SPRINGS, ARKANSAS

All Year Health Resort.

The Kihlberg Hotel and Bath House

Open May 1, 1910.

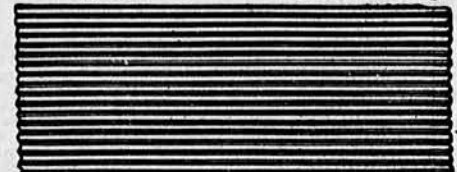
Illustrated folders sent free.

S. G. WARNER, Gen'l Pass. Agt. Kansas City, Mo.

Wonderful ROOFING Offer!

SPECIAL SPRING PROPOSITION for QUICK ORDERS—NEW LOW PRICES

Corrugated Steel Roofing and Siding



1 1/2 inch unpainted steel sheets, light weight, 22 inches wide, 8 to 8 ft. long, 100 sq. feet..... **\$1.85**
 Painted, same as above, 100 sq. feet..... **\$1.95**
 1 1/2 inch corrugated, galvanized, rust-proof steel sheets, standard weight, 22 to 24 in. wide, 8 to 7 ft. long, 100 sq. feet..... **\$3.25**

Read our Freight Prepaid Offer.

PRESSED BRICK STEEL SIDING



Pressed Brick, unpainted steel sheets, light weight, 24 in. wide, 68 in. long, 100 sq. feet..... **\$1.85**
 Painted, same as above, 100 sq. feet..... **\$1.95**
 Pressed Brick, galvanized, rust-proof steel sheets, standard wt., 24 in. wide 68 in. long, 100 sq. feet..... **\$3.25**

Read our Freight Prepaid Offer.

FLAT STEEL SHEETS

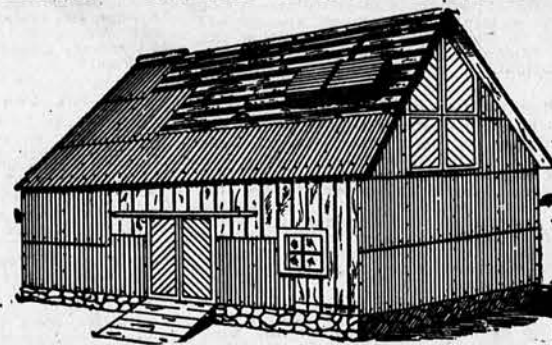


Flat, unpainted steel sheets, light weight, 24 in. wide, 8 to 8 ft. long, 100 sq. feet..... **\$1.60**
 Painted, same as above, 100 sq. feet..... **\$1.70**
 Flat, galvanized, rust-proof steel sheets, standard wt., 24 and 26 in. wide, 8 to 7 ft. long, 100 sq. feet..... **\$3.00**

Read our Freight Prepaid Offer.

Fill in carefully the coupon below. Send it to us and we will mail you at once free of all cost samples of the very best "galvanized rust-proof" roofing, ceiling and siding for your examination.

These samples are large and generous enough to show you the quality of the large sheets, the prices on which are quoted in this ad. This special spring offer made in time for the farmer or town resident who wants to begin improvements—shipments made anywhere—take advantage of this great bargain sale while the offer lasts. No matter for what purpose you require the metal covering, you will not buy roofing, siding or ceiling again this year at lower prices than quoted in this ad. These metal coverings, proven by over 60 years of actual experience, to be the most economical and longest lasting in the market, far superior to shingles, excellent ready roofing, and better than slate which is seven times heavier and breaks from freezing or thawing. Our "galvanized, rust-proof" steel covering keep buildings warmer in winter and cooler in summer; does not taint your rain water.



Only tool needed to lay is a hammer, except with Standing Seam Steel Roofing

Rust-Proof Galvanized Steel ROOFING=SIDING=CEILING

Note our wonderfully low prices—lower than those ever quoted by any factory or any other manufacturer anywhere. Send for samples at once. Get in your order now for spring improvements. Suitable for every purpose. Fully guaranteed. Requires no painting, economical and easy to put on, no previous experience necessary; absolutely guaranteed, brand new, clean stock—bright as a dollar.

The sheets are full sized and come in corrugated "V" crimped standing seam or plain flat sheets, heavily galvanized on both sides with most approved galvanizing material. The preparation will adhere forever. Galvanized means that the steel has been coated with liquid zinc, which makes absolutely rust and weather-proof. Not affected by heat or cold. Square means 100 square feet.

Makes your insurance cheaper. Sold direct from our own roofing factory, the largest in the world. The Chicago House Wrecking Co. sells more roofing material than any other concern. Used in all climates for every kind of a building. Suitable for farm houses, barns, stores, city dwellings, poultry houses, etc. Our prices defy all roofing competition. Don't buy until you see our samples. Our liberal offer to ship subject to your examination is proof of our confidence that our material will meet with your entire satisfaction after the closest scrutiny.

LIGHTNING-PROOF-FIRE-PROOF-WATER-PROOF

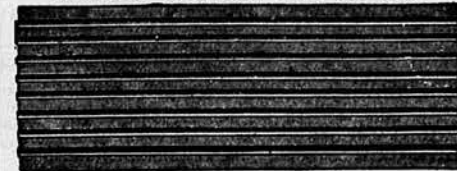
STANDING SEAM STEEL ROOFING



Standing Seam, unpainted steel sheets, light wt., 22 in. wide, 8 to 8 ft. long, 100 sq. feet..... **\$1.85**
 Painted, same as above, 100 sq. feet..... **\$1.95**
 Standing Seam, galvanized, rust-proof steel sheets, standard weight, 22 to 24 in. wide, 8 to 7 ft. long, 100 sq. feet..... **\$3.25**

Read our Freight Prepaid Offer.

BEADED CEILING AND SIDING



Beaded, unpainted steel sheets, light weight, 22 in. wide, 8 to 8 ft. long, 100 sq. feet..... **\$1.85**
 Painted, same as above, 100 sq. feet..... **\$1.95**
 Beaded, galvanized, rust-proof steel sheets, standard wt., 22 to 24 in. wide, 8 to 7 ft. long, 100 sq. feet..... **\$3.25**

Read our Freight Prepaid Offer.

"VV" CRIMPED STEEL ROOFING



2-V Crimped, unpainted steel sheets, light wt., 22 in. wide, 8 to 8 ft. long, 100 sq. feet..... **\$1.85**
 Painted, same as above, 100 sq. feet..... **\$1.95**
 2-V Crimped, galvanized, rust-proof steel sheets, standard wt., 22 to 24 in. wide, 8 to 7 ft. long, 100 sq. ft. **\$3.25**

Read our Freight Prepaid Offer.

Unpainted and Painted Steel Roofing

We also quote in this advertisement steel sheets unpainted, also painted. These are identically the same sheets as the galvanized rust-proof, except are not coated with the molten zinc or spelter, which coating makes the galvanized sheets rust-proof. While the unpainted and painted steel sheets will not last as long as the galvanized rust-proof, yet you can use them with a perfect degree of safety that they will last a good many years and give splendid service, and of course the first cost is not as much as the galvanized rust-proof nor can you expect the same amount of wear, so we believe in the end the galvanized rust-proof is by far the best proposition. However, if you feel that you want to make the smallest possible investment in roofing, why then buy the unpainted or painted steel sheets, all of which are covered by our guarantee as printed below, and if you so desire we would be glad to send you samples free of unpainted or painted sheets, quoted in this advertisement.

Our Guarantee The Chicago House Wrecking Co., manufacturers of these steel coverings, positively guarantee entire satisfaction on every order, or money refunded without delay or argument. The material may be returned at our expense both ways if it is not up to our representation and entirely satisfactory. We are headquarters for roofing supplies of every kind and our stock is always complete, covering every style at prices from \$1.25 per 100 square feet and up. Our million dollar capital stock and surplus is sufficient evidence of our responsibility. We want all your inquiries of merchandise. Our roofing department is one tremendous branch of a business of the greatest magnitude. We are constantly buying complete stocks of new, high-grade goods at sheriffs', receivers' and manufacturers' sales, carrying in stock a full line of building material, including lumber, sash, doors and anything needed for a building; wire fencing, machinery, gasoline engines, traction outfits, furniture, household goods, plumbing material, heating apparatus, water work system and hardware of every kind.

FREIGHT PAID!

At prices quoted in this ad, we will prepay the freight on all Roofing, Siding and Ceiling orders in full to all points east of Colorado in the United States except Oklahoma and Texas. 15c per square additional for these two states. To all points west of Colorado in the United States, 50c per square additional.

How to Order Add 10% to your surface measurement, allowing for laps; send us sketch of your building showing size of dimensions, so that we can send you proper length of sheets to lay economically and avoid waste.

Our Free Roofing Book Our 1910 book on Roofing, Siding and Ceiling sent free for a coupon. Tells how to lay Roofing or Siding and contains much valuable information. Send in your name today. Get our big catalogue, the wonderful "Price Wrecker," containing our newest and latest bargains on building material and merchandise of all kinds.

"Galvanized, Rust-Proof" Shingles

Beautiful in design and make. Ideal for roofing or siding for any style of a building. Come in sheets size 18 by 24 in. Send coupon and get our "Roofing Book." We are headquarters for metal shingles and will save you from 20% to 50% over retail prices for metal shingles of same quality sold at retail. Our special spring offer price, per 100 sq. ft. **\$3.25**

The price on these shingles is F. O. B. Chicago.



FREE SAMPLES!

Coupon No. 61—Mail it!

CHICAGO HOUSE WRECKING CO.,
 W. 35th & Iron Sts., Chicago, Illinois.

Please send me copy of your latest Roofing Catalog, free.

Kind of building.....

Size of roof.....

If you want Siding or Ceiling give diagram and full dimensions.....

When do you expect to order?.....

Name.....

P. O.....

R. F. D. & State.....

Shall we send you our general catalog?.....

Are you interested in lumber?.....

Heating apparatus?.....Furniture?.....

Plumbing supplies?.....Clothing?.....

Wire and fencing?.....

Building supplies?.....

We recommend Galvanized Rust-Proof as by far the best kind of Steel Covering, although Painted Steel Roofing, Siding and Ceiling will give splendid service.

CHICAGO HOUSE WRECKING CO. W. 35th & Iron St. CHICAGO, ILL.

STEEL ROOFING VERY SATISFACTORY.

Chicago House Wrecking Co., Iowa.

Chicago, Ill.
 —Gentlemen:—Have used considerable of your Steel Roofing and find it very satisfactory, indeed the best roofing ever used in this vicinity. Have also ordered Roofing for our father with equal satisfaction.

Yours very truly,
 (Signed) MOSBO BROS.

EXACTLY AS REPRESENTED.

Chicago House Wrecking Co., N. D.

Chicago, Ill.
 Gentlemen:—Please send me your catalog on wire fencing, bath tubs and iron pipe, as I purchased some iron roofing from you in 1905 and found it to be exactly as represented and giving good service.

Very truly,
 (Signed) W. A. MCKENZIE.

A FINE PIECE OF GOODS.

Chicago House Wrecking Co., N. Y.

Chicago, Ill.
 Gentlemen:—Received the "V" Crimped Roofing O. K. and it's certainly a splendid piece of goods. Thanking you for prompt and square dealing I remain,

Yours for more biz.,
 (Signed) BERT WHALEY.

WILL ORDER MORE.

Chicago House Wrecking Co., Neb.

Chicago, Ill.
 —Gentlemen:—Am pleased to say the roofing all here and in splendid shape. Allow me to congratulate you on so prompt delivery. You will receive more orders from me.

Respectfully,
 (Signed) D. DUCELLO.