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WITH WHICH IS COMBINED

FARMERS ADVOCATE

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THE CORN-ROOT

R. L. WEBSTER,

Iowa State College.

The corn root-worms are undoubtedly the most serious insect pests with which the Iowa corn grower has to contend. The presence of root-worms in a field is usually indicated by a withering of the young plants, the failure to produce well developed ears, or a general retarding of the growth

INJURY TO CORN BY ROOT-WORMS.

without any visible cause. A search among the roots of such stalks may bring to notice the tiny root-worms.



Fig. 1.—Corn root-worm, within the root. Enlarged. The root has been broken in two, showing the root-worm still imbedded in it. After Forbes.

The root-worms themselves small, slender white grubs, about half an inch long when they are full grown. Infested stalks of corn may be pulled out easily and will break off at the place where the root-worms are at working, leaving the greater part of the roots in the soil. Frequently stalks infested by the root-worm are blown to the ground by the wind, the root system having been so cut off that the stalks can not stand the strain. Bowman and Crossley have shown how a continuous cropping of corn on the same ground will very soon increase the number of root-worms to an alarming extent, and consequently decrease the yield.

PREVENTIVEF MEASURES.

Rotation of crops is the most effec-tual preventive of root-worms. The beetles of the root-worms usually de-posit their eggs in the old infested fields. By changing the corn from such a field to another which was not in corn the preceding year, these eggs are left behind.

There are two kinds of these worms; the "Northern corn rootworm" and the "Southern corn rootworm." Since the habits of the two are very different in some essential points, a few further remarks con-cerning them are given below. The cerning them are given below. The two are easily distinguished in the beetle stage, when they are commonly found on the corn silk in the fall.

THE NORTHERN CORN BOOT-WORM. The northern form of the root-worm in its adult stage is a plain grass-green beetle, about one-fifth of an inch long. In the fall these small green beetles are common objects on the silk of the corn and the flowers of the golden-rod. The spotted beetle of the southern corn root-worm is frequently found along with the plain green beetle. The beetles deposit their tiny eggs in the soil near the stalks of corn.

The next year these eggs hatch out young root-worms which begin to attack the corn almost as soon as it is out of the ground. Throughout the summer these northern corn root-worms are at work on the roots, until the worms become full grown in the late summer. When they become mature they transform to the pupa, or resting stage, in which stage they spend a short time. Finally the plain green beetle emerges from this pupa. The beetles then deposit their eggs for another crop of root-worms for the

next year. As far as it is known there is but one breed of this form in a season.

THE SOUTHERN CORN ROOT-WORM.
The bestle of the southern root-worm is green, with twelve black spots on its back. On this account it may be easily distinguished from the other form. It is also somewhat larger than the plain green beetle, measuring about a quarter of an inch long. The black spots are in three rows across the back of the beetle, each row with four spots. Usually these beetles are found along with the plain green beetles on the silks of the corn, but they are not so common. The black spotted beetles are found not only in the fall, but all through the season from early spring as well. There seems to be at least two broods of them during the year.

The life history of the southern corn root-worm is similar to that of the northern form, except that it is passed through in a much shorter time. In the corn fields the eggs are deposited in the ground near the

COMPARISON OF THE TWO FORMS.

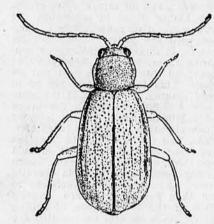


Fig. 2.—Beetle of Northern corn root-worm. Much enlarged. After Forbes.

Corn is practically the only food plant of the northern root-worm. It is rarely found in sorghum. On the other hand, the southern root-worms have been found in wheat, rye, millet, and other grasses. The northern form other grasses. The northern form does more injury to corn, although during last year the beetles of the southern form were extremely com-mon in Iowa. Since the northern corn root-worm has practically only one foot plant, corn, in its grub stage, there need be no especial difficulty in avoiding its ravages. A mere change of crops will bring relief. With the southern form the problem is more difficult, but it is usually not the southern root-worm which does the really serious damage in this state.

Where either the plain green beetle or the black spotted one were seen in very large numbers feeding on the silks of the corn last fall, it is an indica-tion that a corn field on the same piece of ground will be infested with the root-worms this year. Where a proper rotation of crops is put into ef-fect there need be little trouble with these root-worms these root-worms.

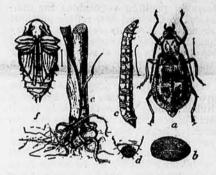
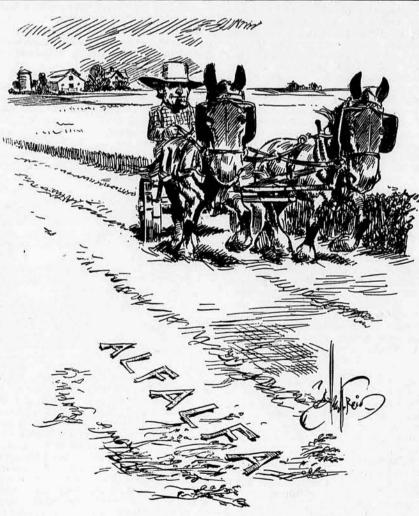


Fig. 3.—Southern corn root-worm, a, beetle; b, egg; c, root-worm; d, anal segment of larva; e, work of root-worm at base of corn stalk; f, pupa. All enlarged except e, which is reduced. (Reengraved after Riley, except f, after Chittenden). Chittenden, circular 59, Bureau of Entomology, U. S. Dept. Agr.

How to Restore and Increase Fertility. In Illinois the depletion of the soils has proceeded several decades longer than in Kansas. The deficiency in phosphorus has received careful attention of William G. Eckhardt of the Illinois Experiment Station, who suggests the following plan, in addition to a good rotation and the return of

all crop residues to the soil: "The results in Ohio show that every dollar put into rock phosphate, where used with manure, produced an increase of from 3.5 bushels to 26.8 bushels per acre. But assume an average increase of \$1 per acre. Take, for example 160 acres of prairie land worth \$16,000 to \$30,000. With less money than the interest on its value for one year, we can put this place under a system of farming v richer from year to year. Buy a 20-ton car of rock phosphate for \$160 and VIII grov apply it in the fall on 40 acres that has been in clover; count the returns as \$40, and, the second year, put with it \$120 and buy another car load of rock phosphate and apply it to a second 40. The returns from the two ond 40. The returns from the two forties will be \$80; put another \$80 with it for phosphate for a third field. Returns from the three fields, \$120; add \$40 to it and get the rock phosphate for the last 40 acres.

"Here is a total investment of \$400 and we have added to the land 160,000 pounds of rock phosphate which contains enough phosphorus to grow 117,647 bushels of corn. And we should go on adding phosphate until the increase of the crop will no more than pay its cost.'



Cutting his First Coupons.

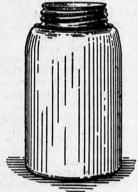
From a drawing by Albert T. Reid.

Canning Vegetables in the Home

SCIENTIFIC AND PRACTICAL CONSID-

ERATIONS AND THE APPLIANCES.

One of the many problems that confront the American housewife is the supply of vegetables for her table during the winter months. "What during the winter months. can I have for dinner today?" is a question often heard. Since the advent of the modern greenhouse and the forcing of vegetables under glass, fresh vegetables can usually be found at any time in the markets of the large cities. But the cost of forcing vegetables or growing them out of season is and will continue to be very great. This makes the price so high as almost to prohibit their use by people of moderate means, except as a A healthful diet, however, must include vegetables, and there-fore the housewife turns to canned goods as the only alternative. These are sometimes poor substitutes for the fresh article, especially the cheaper commercial grades, which necessarily lack the delicate flavor of the fresh vegetable. There is practically no danger, however, from contamination with tin or other metals providing the containers are made of proper materials and handled carefully. In some cases the proper care is not



taken in packing vegetables for market. The decayed and refuse portions are not so carefully removed as they should be and the requisite degree of cleanliness is not observed in their packing. Happily, however, such carelessness is not general.

Every housewife may run a minia-ture canning factory in her own kitchen, and on the farm this is especially economical and desirable, the economy being less pronounced in the case of city dwellers, who must buy their fruits and vegetables. Enough vegetables annually go to waste from the average farm garden to supply the table during the entire winter. But usually the farmer's wife cans her to-matoes, preserves her fruits, and leaves her most wholesome and nutritious vegetables to decay in the field, under the impression that it is impossible to keep them. This is a great mistake. It is just as easy to keep corn or string beans as it is to keep tomatoes, if you know how.

THE SCIENCE OF STERILIZATION. The art of canning or preserving in one form or another is almost as old as history itself. The early Chinese possesed this secret long before the era of modern civilization, but "the reasons why" which lay back of the art have only recently been thoroughly explained.

COMPLETE STERILIZATION.

The great secret of canning or preserving lies in complete sterilization. The air we breathe, the water we drink, all fruits and vegetables, are

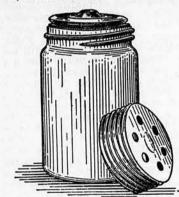


Fig. 2. teeming with minute forms of life which we call bacteria, or molds, or These germs are practically the sole cause of decomposition or rotting. The exclusion of air from canned articles, which was formerly supposed

By J. F. BREAZEALE,

ureau of Chemistry, U. S. Department of Agriculture.

to be so important, is unnecessary provided the air is sterile or free from germs. The exclusion of air is necessary only because in excluding it we exclude the germ. In other words, air which has been sterilized or freed from germs by heat or mechanical means can be passed continuously over canned articles with-out affecting them in the least. If a glass bottle is filled with some vegetable which ordinarily spoils very rapidly—for instance, string beans—and, instead of a cork, it is stopped with a thick plug of raw cotton, and heated until all germ life is destroyed, the beans will keep indefi-The air can readily pass in and out of the bottle through the plug of cotton, while the germs from the outside air can not pass through, but are caught and held in its meshes. This shows that the germs and their spores or seeds are the only causes of spoilage that we have to deal with in canning.

YEASTS, MOLDS AND BICTERIA. Germs which cause decay may be divided into three classes-yeasts, molds, and bacteria. All three of these are themselves plants of a very low order, and all attack other plants of a higher order in somewhat the same way. Every housewife is familiar with the yeast plant and its habits. It thrives in substances containing sugar, which it decomposes or breaks up into carbonic acid and alcohol. This fact is made use of in bread making, as well as in the manufacture of distilled spirits. Yeasts are easily killed, so they can be left out of consideration in canning vegetables. Molds, like yeasts, thrive in mixtures containing sugar, as well as in acid vegetables, such as the tomato, where neither yeasts nor bacteria readily grow. Although more resistant to heat than yeasts, they are usually killed at the temperature of boiling As a general rule, molds are likely to attack jellies and preserves and are not concerned with the spoiling of canned vegetables. The spoiling of vegetables is due primarily to

Bacteria are also much more resistant to heat than yeasts. They thrive in products like milk and in meats and vegetables rich in protein, such as peas, beans, etc. All known spe-cies of molds require air in which to work. This is not true of bacteria, certain species of which will live and cause vegetables to decompose even when no air is present. When these particular species are present the ex-clusion of air is no safeguard against decay, unless the vegetable is first thoroughly sterilized. Bacteria are so small that they can only be seen with a microscope, and they reproduce themselves with amazing rapidity. One bacterium under favorable conditions will produce about twenty millions in the course of twenty-four hours. Accordingly certain vegetables spoil more rapidly than others, because they furnish a better medium for bacterial growth.

The reproduction of bacteria is brought about by one of two processes. The germ either divides itself into two parts, making two bacteria where one existed before, or else reproduces itself by means of spores. spores may be compared with seeds of an ordinary plant, and they present the chief difficulty in canning vegetables. While the parent bacteria may be readily killed at the temperatur of boiling water, the seeds retain their vitality for a long time even at that temperature, and upon cooling will germinate, and the newly formed bacteria will begin their destructive work. Therefore it is necessary, in order to completely sterilize a vegetable, to heat it to the boiling point of water and keep it at that temperature for about one hour, upon two or three successive days, or else keep it at the temperature of boiling water for a long period of time—about five hours. The process of boiling upon successive days is the one that it always employed in scientific work and is much to be preferred. The boiling on the first day kills all the molds and practically all of the bacteria, but does not kill the spores or seeds.

As soon as the jar cools these seeds germinate and a fresh crop of bacteria begin work upon the vegetables. The boiling upon the second day kills this crop of bacteria before they have had time to develop spores. The boiling upon the third day is not always necessary, but is advisable in order to be sure that the sterilization is Among scientists this is called fractional sterilization, and this principle constitutes the whole secret of canning. If the housewife will only bear this in mind she will be able with a little ingenuity to can any meat, fruit, or vegetable.

EXCLUSION OF THE AIR.

Even after sterilization is complete the work is not yet done. The spores of bacteria are so light that they float about in the air and settle upon almost everything. The air is alive with them. A bubble of air no larger than a pea may contain hundreds of them.



Fig. 3.—Jar with metal lacquered top. Therefore it is necessary after sterilizing a jar of vegetables to exclude carefully all outside air. If one bacterium or one of its spores should get in and find a resting place, in the course of a few days the contents of the jar would spoil. This is why the exclusion of air is an important factor, not because the air itself does any damage but because of the ever-present bacteria.

All of this may seem new fashioned and unnecessary to some housekeep-ers. The writer has often heard it "My grandmother never did this, and she was the most successful woman at canning that I ever knew." Possibly so, but it must be remembered that grandmother made her preserves -delicious they were, too-and canned her tomatoes, but did not attempt to keep the most nutritious and most delicately flavored vegetables, such as lima beans, string beans, okra, asparagus, or even corn.

SO-CALLED "PRESERVING POWDERS." There are a great many brands of so-called "preserving powders" on the market. These are sold not only under advertised trade names but by druggists and pedlers everywhere. In the directions for use the housewife is told to fill the jar with the fruit or

and cheaply the use of chemical pre. servatives in canning is not to be recommended. KINDS OF JARS.

The first requisite for successful canning is a good jar. Glass is the most satisfactory. Tin is more or most satisfactory. less soluble in the juices of fruits and vegetables. Even the most improved styles of tin cans which are lacqured on the inside to prevent the juice from coming in contact with the tin are open to this objection. While the amount of tin dissolved under these conditions is very small, enough does come through the lacquer and into the contents of the can to be detected in an ordinary analysis. While the small amount of tin may not be injurious, it gives an undesirable color to many canned articles. Tin cans can not readily be used a second time, while glass with proper care will last in-definitely.

There are a great many kinds of glass jars on the market, many of possessing certain distinct them points of advantage. The screw-top, or Mason, is the one in most common use (fig. 1). Although cheap in price, these jars are the most expensive in the long run. The tops last only a few years and, being cheaply made, the breakage is usually greater than that of a better grade of jar. The tops also furnish an excellent hiding place for germs, which makes sterilization very difficult. An improved type of screw-top jar is shown in fig. These are fitted with a glass top held in place by a metal cover which screws down over the neck of the jar. If the canning or sterilization is conducted properly, practically all of the air will be driven out of the jar by the steam. Upon cooling, this is condensed, a vacuum is formed on the inside which clamps down the glass top against the rubber ring and seals jar automatically. The metal cover can then be removed, as the pressure of the outside air will hold the glass top securely in place.

Another type of jar in common use is shown in fig. 3. These require no rubber rings, but are fitted with a metal top, lacquered on both sides and having a groove around the lower edge. This contains a composition of the consistency of rubber which is melted during canning by the heat of the jar and forms a seel that takes the place of the rubber ring. These metal tops must be renewed each year, as it is necessary to puncture them in order to open the jar. The most satisfactory jar that the

writer has had any experience with is the one shown in figs. 4, 7, 8, and 9. This has a rubber ring and glass top which is held in place by a simple wire spring. There are several brands of these jars on the market, so no difficulty should be experienced in obtaining them. Vegetables often spoil after being sterilized because of defective rubbers. It is poor economy to buy cheap rubbers or to use them a second time. As a general rule black rubbers are more durable than white

Buy a good grade of jar. The best



Fig. 4 .- Spring-top jar. vegetable to be canned, to cover with water, and to add a teaspoonful of the powder. It is true that these powders may prevent the decay of the fruit or vegetable, but they also encourage uncleanly, careless work, and in the hands of inexperienced persons may be dangerous. While with small doses the influence may not be apparent in an adult in normal health, with a child or an invalid the effect may be of a serious nature. The proper way to sterilize is by means of heat, and as this can be done very easily

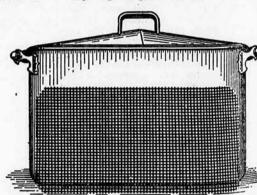


Fig. 5.—Sterilizer, showing false bottom

quality usually retails at from a dollar to a dollar and twenty-five cents a dozen. The initial expense may be, therefore, somewhat high, but with proper care they should last many The annual breakage should years. be less than 3 per cent on the average. In selecting a jar always give preference to those having wide mouths. In canning whole fruit of vegetables and in cleaning the jars the wide mouth will be found to be decidedly preferable.

(Continued on page 15.)

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of the long rafters are bolted to these rims.

By Menno S. Yoder, Shipshewana, Ind.

he barn is twelve-sided, 60 feet in heter, and each side is 16 feet long, of solid cement concrete 30 feet above the ground floor and reced with 118 rods of heavy wire fencing made of number nine wires and put he middle of the wall. At the sides of doors and windows and above them the sare further re-enforced with old iron, mostly bridge iron and some other bought from junk dealers. The bridge beams imbedded in the walls at the sol and above the doors have some heavy wire wrapped around them to hold cement more securely around them.

ement more securely around them.

e foundation is three feet six inches wide at the bottom and slopes in from sides to the surface of the ground, where the main wall begins 12 inches thick. I sides to the surface of the ground, where the main wall begins 12 inches thick. concrete for the foundation was mixed one part cement to six parts gravel, stones were tamped in. What we call gravel here is sand and coarse gravel ed, as we find it in Northern Indiana. Above ground no stones were tamped he walls and concrete was mixed one to five. The walls are 12 inches thick, third of the way up and then 10 inches thick, and the upper third is eight

he bridge, forming part of the driveway to the second floor, is 18 feet long and feet wide, having a rise of 10 inches, and is made of steel and cement concrete. ground floor of the barn is all cemented and has a driveway through the cenwith a row of stalls and mangers on each side. This plan practically puts two with a row of states and mangers on each side. This plan practically puts two bles in one, giving plenty of working room for handling manure, watering k, and taking stock or teams in or out of the stable. Part of this stable is le for horses on both sides. Between horses and cows there is no door but a pole

ile for horses on both sides. Between horses and cows there is no door but a pole aid across at night.

The doors at each end are 8x8 feet, and each door is made in two sections and thing from a three-horse manure spreader to a top buggy can pass through. The series a hydrant on the ground floor for watering stock. Waste water is tiled a Nearly all woodwork about stalls and mangers is low down so it will not true the light or the view over the entire basement.

There are six eight-inch inlet ventilators through the walls of the stable, each tillator being made of two elbows and a joint of pipe placed upright in the land there is one outlet ventilator 27x27 inches made of matched six-inch ring and leading from 10 inches near the ground floor to the peak of the roof, and fresh air also comes in through crevices around doors and windows. The stairway and hay chute openings are all kept closed in cold weather and we re perfect control of the ventilation by opening or closing more or less of the textilation. The impure air and the carbonic acid gas exhaled by the stock the textilator which is open all the time and we up air somewhat like a tall chimney.

There are 31 windows in the barn all of the same size, we still outlet ventilator which is open all the time and we are protected inside and outside by heavy re screens. The screen frames are held in the by wood screws tightened up against the cement.

The timbers of the second floor are supported the timbers of the second floor are supported 16 tubular iron columns six inches

diameter and filled with cement. This or is nearly nine feet above the bund floor and is double boarded with h boards and tar paper between ove this floor is a frame of timbers are the bare making one over the bare and the ross the barn making one open pas-ge or thrashing floor 12 feet wide and feet high and another on the right the of it 10 feet wide and seven feet th, both together forming a floor acc of 22x60 feet. This is covered with a rough floor except a space at to the big barn doors which is left en to draw up hay. The granary bins the left side of the thrashing floor we spouts down to load grain on a agon below in stable driveway. When alding the wall we used forms on both des all around the barn made of three tlo inch hemlock planks fastened to-ther with 2x4 inch cleats placed four t apart. These forms were held in

The heavy work of mixing and liftconcrete, elevating lumber and liftg the forms was done with the gasoere raised the outside of the wall Litter Carrier track.

as painted with a mixture of pure ment and water. A double drum hoist was used in connection ith the engine and a cable on one drum pulled the gravel truck up bove the mixer and a rope on the other drum operated on the jimane to do hoisting. The center pole of this home made crane as 64 foot black. as 64 feet high.

The barn is 53 feet high from the ground floor to the opening in the roof over which the ventilator cupola is built. Iron rims of old index and the universe an order wheels were put in for ventilator outlet and the upper end

The lower king rafters are 23 feet long and the upper 18. Rafters are 2x8 inch timber and are spliced at the hip by pieces eight and 10 feet long. The pitch of the roof below the hip is 15 feet rise to 12 feet run and above the hip five to 12. The plate that hold the lower end of the rafters is built up of five thicknesses of 2x12 inch plank of hard wood lumber, well interlocked at corners by some extra interlocking planks six feet long put in the plate across the corners. It is all well spiked and bolted so as to effectually hold the outward thrust of the self-supporting roof.

Short 2x4 pieces are spiked securely on the outside of the plate and extend



down over the outside of the wall about six inches and bolts pass through these and the wall. The cornice supports are fastened to these 2x4s.

A round hay track, 30 feet in diameter, is put under the roof and is fitted up with a new hay carrying outfit that hoists the hay to any height and runs to either side without any track stop and without any change of ropes. It will carry hay from the mow to the wagon as readily as to unload it from the wagon.

This barn encloses as much floor space as a square barn 40x72 feet and it required 32 feet less outside wall to enclose it. It also has less roofing in proportion.

Diameter 60 ft.

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tion. We believe we utilize the space inside this barn as fully Stable Plans of Yoder's Cement Barn as others do in square barns. The barn has cost us about \$1780 besides our own work and what building material was cut on

the farm. The outlet ventilator has more draught upward as the weather gets colder and we allow enough ventilation at all times to keep the air pure.

Exposition at Denver.
Extensive and elaborate preparations have been under way since last fall for holding the second annual Colfall for holding the second annual Colorado Inter-State Fair and Exposition, which will take place on the permanent grounds of this institution at Overland Park, Denver, September 12 to 18, inclusive. G. C. Fuller, the secretary of the exposition, advises there will be complete classifications with liberal prizes offered for exhibits of live stock, as well as the product of other industries, and that the fair of other industries, and that the fair of this year promises to equal if not eclipse the most successful of similar exhibitions held throughout the middle and eastern states. The premium list will be ready for distribution the

latter part of May and copies of same may be had by addressing Mr. Fuller at Denver. Breeders of pure bred live stock throughout the country are fast realizbred live stock throughout the country are fast realizing the exceptional opportunities offered in the vast territory tributary to Denver for increasing their business, and the value of exhibiting at this fair. While many of the leading herds were on exhibit last year a great many more are parning to make this show the coming season on their way to the Alaska-Yukon Exposition. The management has provided large comfortable barns and buildings to take care of the exhibits, and every convenience is offered to shippers as they may bill directly to the fair and unload within the grounds.







DIFFICULTIES OF COMBINATIONS.

Very many of the attempts at cooperation among farmers have come to untimely ends so that it has sometimes been said that the American farmer lacks the characteristics essential to successful cooperation.

The difficulties experienced by farmers have been encountered by others as well. The great cotton thread combine which was entered by the world's leading thread makers had some experiences which read much like those that have been recorded in the epitaphs of some farmers' organizations.

The following from an article in a recent number of the "American Wool and Cotton Reporter" will illustrate:

The net profits of the company for 1898-99 were £172,992; for 1899-1900, £97,335; for 1900-01, £43382, and for 1901-02, a loss of £127,006 was shown; the price of the ordinary shares fell from 47s. 6d. in 1899 to 9s. 6d. in 1902.'

This showing was followed by an investigation as a result of which a director said that he had found that the cost of selling their goods in Canada was 32 per cent. He had made an arrangement with the Central Agency, who were already conducting the company's foreign business, whereby they stated that they could sell in Canada at a cost of 9 to 10 per cent. In the home department, they had no protection, everything was done in a haphazard, hand-to-mouth fashion. And in a circular he spoke of "the gross overcapitalization, the questionable finance. the extravagant and inefficient management, the bad buying, bad manufacturing and bad selling."

On the question of management the report said:

"It was an awful mistake to put into control of the various businesses purchased by the company the men from whom the businesses were purchased, because these men had got into one groove and could not get out of it."

The account of experiences continues:

"An executive committee of five was appointed by the board, but it became a prey to dissensions. Little wonder that directors should openly and almost ostentatiously confess that 'the administration of the company had been inefficient and extravagant'-it could hardly be anything else."

The chronicler points his moral in the following:

"The contrast with the Coats' Company is striking. We begin with a comparison of an amalgamation composed only of sound, efficient firms with one in which the only object apparently was to sweep every one into the net, and we go on to the antithesis of ability admirably equipped at every point and 'inefficiency and extravagance.' Nor is this the last occasion on which the lesson is driven home in the history of English combinations that the mere aggregation of numbers is by itself no guarantee of success. Moderate capitalization, econ-

are the indispensable requisites.' The theory of cooperation is admirable. The failures emphasize importance of the facts stated in the last sentence above quoted.

omy, and above all, good management

MEMORIAL DAY.

The veteran of the great war of 1861-5, who in 1909 marched in the processions and reverently and affectionately strewed flowers over the graves of men endeared by memories nearly half a century old, is less firm in his step and less conspicuous by corts are his grandchildren in whom centers his hope for the future while his own thoughts abound in reveries of the distant past. But, while many of the leading parts in the world's enterprises of today have been surrendered to younger hands and heads less whitened by the passing years, the old soldiers in the procession include many of the men who are yet bearing with ability and with honor many of the labors by virtue of which the country is progressing.

The other people who attended the memorial day exercises were essentially of the sturdy, serious-minded, in-dustrious, virile, capable people upon whom Lincoln so confidently relied in the dark days of the war and on whom in any emergency the country may safely rely for right actions, noble

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tisers under the following conditions: We will make good the loss of any apid up subscriber who suffers by dealing with any fraudulent advertiser in our columns, provided complaint is made to us within thirty days after the transaction. This guarantee means just what it says. It does not mean that we guarantee to settle all trifling disputes between a subscriber and an advertiser, though we offer our good offices to this end. We do, however, protect you from fraud under the above conditions. In writing to advertisers be sure always to say: "I saw your advertisement in Kansas Farmer."

CONTRIBUTIONS. — Correspondence invited on all farm topics, live stock, soil cultivation, grains, grasses, vegetables, household matters, recipes, new and practical farm ideas, farm news. Good photographs of farm scenes, buildings, live stock, etc., are especially invited. Always sign your name, especially invited. Always sign your name, net for publication, unless you desire it, but as an evidence of good raith. Address all communications to

KANSAS FARMER COMPANY,

Tepeka, Kansas.

sacrifice, and unselfish devotion to

The lesson in patriotism exemplified by memorial day's exercises is one that it is well to teach. The demonstration of the fact that there is in every American community a great heart that is moved by other than motives of selfishness, that the spirit of tenderness is abroad in the land, and that love that expects no recompense is a motive universal, lifts mankind above the sordid plain and glorifies the best that is in us.

On memorial day the obscure and the unknown are not forgotten. The writer saw graves that were so humble that identification was scarcely pos-sible but the hand of gratitude and affection found them. Among those marked by but a simple stone a grayhaired colored woman walked with her tribute of flowers, chiefly wild flowers. which she quietly laid by the little stone, lingered a moment and passed on. When later the decorating committee came other flowers were added to the old aunty's wild flowers.

It is forty-four years since the veterans came home. In all these years they have borne leading parts in the work that has made sure the results achieved on the bloody fields. Their influence and their example have been for the betterment of mankind. Their thinning numbers suggest that but few more years will they be here to incite to lives of labor, virtue and patriotism. It will be well for America if their descendants and other successors shall prove as worthy as they.

SOW ALFALFA IN 1909.

The farmer whose animals are now reveling in alfalfa may well be envied by the neighbor who is limited to feeds produced last season, and still high in price. The moral of it is to get a field to growing alfalfa at the earliest practicable date. A field that is now growing oats or millet, or a field that on any account lies fallow until after harvest may be made excellent for seeding to alfalfa during the last half of August or the first half of September. If the field lies idle it should be plowed and subsequently ten enough to enable it to retain the moisture and to keep down all weeds and grasses. If in oats or millet the soil should be disked immediately after the removal of the crop and later disked or harrowed after every rain, oftener if necessary to keep down weeds and grasses.

If on August 16 the soil is free from weeds and is moist enough to germinate seed, and not too wet, the alfalfa should be sown, preferably with a drill. If the soil be found too dry to make into a ball, sowing should be deferred until after a rain sufficient to wet it down to the moist subsoil.

Persons of experience differ as to the amount of seed to use. But if fifteen pounds of good seed to the acre be evenly distributed and properly planted so that half of it will grow there will be several times as many plants as can find room for proper development

Almost every farmer who grows alfalfa finds it necessary to fail one or more times in his attempts to get a stand before he realizes that the vigorous plants which seem capable of holding their own against all competitors and under almost all conditions were once very small and feeble, that in their infancy they needed conditions like those of a well prepared garden, including heavy manuring.

Alfalfa seed is too expensive to waste on any but the best possible chances. The crop is too valuable to do without. The present is a good time to plan for this season's sowing. The prosperity that alfalfa brings is pleasant to think about while cultivating the corn, while milking the cows, or even while waiting for the rain to

A FOREIGN VIEW OF THE WHEAT MARKET.

The "Miller's Gazette and Corn Trade Journal," London, Eng., in issue of May 19 says:

Without any apparent change in the statistical position or any seriously enlarged prospective supplies during the remainder of the season, and in spite of a distinctly unfavorable outlook for the American winter wheat crop as well as of the German crop, the market this week has relapsed into quietness, and, in the absence of demand, prices have gradually given way to the extent of about 1s per qr. since last week. This action seems to suggest that the market is getting tired of, and is becoming afraid of the high prices, justified although they There can be little doubt, that, high as the level of prices may be, the natural tendency of the market is upward, because of the obvious fact that the requirements of Europe during the period which separates us from the new crop, will be difficult, if not impossible, to supply without draining reserve stocks to a point of danger, if anything should happen to the new crop. When the new crop does begin to move freely, it is possible that we meantime much may happen. The increased Russian shipments have caused some surprise, but the power of high prices is drawing wheat from Russia and India, is well known, and an examination of Russia's officially declared crops and exports during the past five years shows that Russia ought still to have a fair surplus on hand. Notwithstanding these increased Russian shipments, however, the exports to Europe have remained during the past seven weeks quite below the minimum estimated requirements of European importing countries, and this is a condition which looks like continuing until the end of the season."

HELP ON THE FARM. "The great problem of farming com-

munities today is the scarcity of fam help, which makes it increasingly dif-cult for the farmer to leave home that hardly seems possible that with a few hours' ride of our great cities. help cannot be secured, but our farmer friends assure us it is easier to pick bank notes off blackberry bushes than to find a man to milk cows and take to find a man to milk cows and take care of stock on the farm and yet there are thousands in the cities who are serving long hours at unwhole some work for the merest pittance, who might regain health and manhood by taking up country work,"

The foregoing quotation from the National Magazine for June is mis-leading if it conveys the impression that the one thing needful is to induce the inefficient in the crowded city to amble forth into the domain of the farmer and fall into arms ready to receive him as the long lost brother or as the returning prodigal son to be feasted and fondled, to be treated as a guest and not expected to labor or to know how to perform the various duties of the farm. Further, the error of the saying "any fool can farm" was never so manifest as now.

The cities may as well understand that when the fluctuations of their prosperity leave unemployed, penniless and helpless great numbers of persons each of whom knows how to do but one thing under but one set of conditions, such persons will be as useless to the farmer whose crops need cultivating and whose harvests are wasting for want of laborers as to the city employer whose doors are closed on account of lack of demand for his products.

The farmer needs help, lots of help, but he needs competent farm hands who know how to do the work of the farm and who will be punctual reliable, efficient at many tasks, and willing to stay by the job.

ADVICE OF AGE TO YOUTH.

The Sterling Bulletin has on its staff a wise writer of mature years who dispenses advice that does much to make the community prosperous, progressive and happy. Here is a little of his admonition to the young:

"Every young person should become a depositor in a bank. We have excellent banks in Sterling and some reason can be given why you should become a depositor. In the first place, it is much safer than to carry your money with you. There is no danger

of losing it or having it stolen.
"Another reason is, when you pay a debt by check you have a receipt. This very frequently saves trouble. When you use a check, the bank makes change for you. A bank account is a money saver. You are frequently towards a bank account is a money saver. tempted to buy a thing you have no need of, but you have the money in your pocket and away it goes, but if you have to write a check you stop to consider and finally say, 'Well, I won't do it,' so it will save you dollars in the end.

"And, again, if you have a bank account, you will be careful about reducing it, unless you get something you really need. A young person having a bank account has a kind of feeling that he is one of the business people, a kind of stability of real citizenship. As a rule, the young man who keeps a bank account will become a better business man that the one who carries his money around in his pocket."

VARIATIONS IN PRICES.

The annual report on wholesale prices, just published by the U.S. Bu reau of Labor, shows that wholesale prices in 1908 receded as a whole from the high level of 1907 and were only slightly in excess of the prices for 1906. The report gives wholesale prices for 258 representative staple articles for 1908 and completes a series of prices for the nineteen years, 1890 to

The average price for 1908 was 5.2 per cent below that for 1907, the year of highest prices during the nineteen year period. It exceeded the average for every other year of the period, but was only 0.2 per cent higher than the average for 1906. As compared with 1897, the year of lowest prices during the period, the advance in 1908 was 36.9 per cent, and as compared with the average for the ten years, 1890 to hich w aterial rugs at an we ANSAS rial co

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99, the advance was 22.8 per cent. in farm products, taken as a whole, ere was a decrease in price of 2.9 or cent in 1908 below the average in 1907, this decrease being the least any of the seven groups showing a crease; food increased 2.4 per cent price; cloths and clothing decreased 7 per cent; fuel and lighting de-eased 3.1 per cent; metals and im-lements decreased 12.6 per cent, hich was the heaviest decline of any the groups; lumber and building aterials decreased 9.4 per cent; russ and chemicals increased 0.7 per ent; house furnishing goods decreas-3.8 per cent, and the miscellaneous roup decreased 5.7 per cent.

ARM AND RANCH WORK IN THE ROCKY MOUNTAINS.

W. H. Olin, a formerly of Kansas an well known to the editors of tansas Farmer, who is now the indus-rial commissioner of the Northwestm Land and Iron Company, of Den-

er, Colo., writes: "There is likely to be a considerable emand for summer work upon Westrn ranches and farms this season. he work will consist of the usual ound-ups of cattle and branding alves on the ranches, hay making, nd usual farm work on farm and anch. The writer has an extensive equaintance and correspondence in he West and will undertake to help lace competent and industrious colege students and young men of che fiddle West, who would like to make rpenses this summer and study locky Mountain agriculture in Wyomng and Colorado. No charge is made or this service but or this service but persons applying or this work will be asked to give heir experience in farm work, name wo persons who will endorse their haracter and good habits, and state he kind of work preferred.

"Persons in charge of students or M. M. C. A's are urged to assist in this fort to enable commendable young nen to study Rocky Mountain agricu!re and stock raising and pay the ork. Address the writer not later han June 1, 1909, and state when they an begin work."

St. St. St. THE EARLY WHEAT MARKET.

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The Grain Growers' Guide, published t Winnipeg, Manitoba, strongly urges he avoidance of obligations that must e met soon after harvest. The custom n Manitoba is to promise payments n November. This compels the farm-er to rush his wheat to market at a ne when the pressing early demand has been met from fields further south o that the buyer is in position to lictate prices.

The case is different in Kansas. This tate furnishes the first big crop of he season. Of late years the early hrashers have met a hungry market and good prices. True, the general ise of the prices of food stuffs have uring the last two years maintained n almost continuous advance which as not greatly retarded by the marteting of the season's crops. This seneral upward movement has obcured the advantage generally enoyed by the Kansas producer on acount of his ability to reach the martet at a time when the supplies held over from the preceding harvest are It the lowest and before the great rush northern grown wheat satisfies deands of both millers and speculators. The ability to market wheat before he carrying charges of shrinkage, inurance, and interest accrue is a sub-

* * * HEMP FOR BINDING TWINE.

reat winter wheat belt.

tantial one for the farmers of the

The Wisconsin Experiment Station s trying to produce a fiber plant from which to obtain materials for the manplacture of binding twine. A fourare field of hemp produced about 1,000 pounds of fiber per acre. This fold at seven cents per pound, giving gross return of \$70 per acre. The cost of production was almost \$30 per acre, leaving a net return of \$40 per acre.

Some of the experimental plots were upon lands badly infested with quack grass and Canadian thistles. The rank growth of the hemp, which teaches 10 to 12 feet in height and thoroughly shades the ground, so killed out these weeds that when the and was bushen effor the crop was and was broken after the crop was removed, few weeds were found.

The following prices for hay at Sar rancisco are quoted as showing a

decline on account of the marketing of new hay:

Choice old wheat hay .. \$23.00 to \$24.00 Good old wheat hay... 19.00 to 22.00 Other grades same.... 16.00 to 18.50 New wheat hay..... 15.00 to 18.00 New wild oat..... 14.00 to 16.00

If these prices represent compara-tive feeding values it may be worth while to cure some "wheat hay" this side of the Rockies.

THE GOVERNMENT TO FIGHT WHEAT PESTS.

The announcement is made that the Department of Agriculture through its bureau of entomology, will establish a permanent branch office at Wellington, Kan., for the purpose of making a more extended study of the Hessian fly, the green bug and other wheat pests. This office and the investiga-tion will be in charge of E. O. G. Kelly, who has been especially active during the past two years in the campaign against the green bug. Wellington was selected as being the most centrally located city in the great wheat belt of Kansas and Oklahoma.

A novel view of the road question is taken by the American consul at Hanover, Germany, in a communica-tion sent to the State Department. He points out that the German roads which are subjected to a hundred times more traffic than similar roads in the United States are only 20 to 30 feet in width. They are, however, well constructed and this width has been found ample for all purposes. In the United States, on the other hand, the average roadway is 66 feet wide. Taking Minnesota, Wisconsin, Michigan, Iowa, Kansas, Nebraska, Missouri, Illinois, Indiana and Ohio, with 700,000 miles of roads, and reducing the width to 36 feed, leaving them even wider than the highways of Prussia, there would be given back to the farmers of those states for cultivation the astonishing total of 2,500,000 acres. This land bordering the highways is usually the most valuable, and at an average price of \$100 per acre, there would be restored to the prodeing value of the states named a sum the annual interest on which at five per cent would amount to \$12,500,000, enough money if properly applied to road building to supply all the states with really good

roads within a few years.

A Michigan farmer gives the following description of his method of growing alfalfa: "Have tried sowing early in the spring, both with and without a nurse crop and on limed and unlimed soils but seem to have the best succers by plowing early and top dressing with barnyard manure and then har-rowing thoroughly to kill weeds and June grass. We try to sow about June 15 to July 1. Seeding with 20 pounds of the best northern grown seed to the acre. When sown so late it rarely turns yellow and does not need slipping, thus insuring a good top for winter which seems to be very essential for the first year at least. Last year I seeded three acres in this way and although we only had one good rain during the growing season after seeding, yet there is a good stand and it is growing nicely this spring. My soil is a clay loam with a clay subsoil."

That the recent meeting of the Kansas State Sunday School Association at Topeka brought many farmers to the capital city was attested by the calls of many friends at the office of the "Old Reliable." It is pleasant to know that these are not only pros-pering in material things, but that this time it regulated its course ac-

WHAT CEMENT

--"Reason out" for yourself what is the best Portland Cement for you to use. Here are the facts:

All Portland cements are not alike. But authorities agree that the cement that is ground the finest is the best. Its bonding power—its ability to hold particles together depends upon the fineness to which it is ground.

So no matter what you want to construct—be it a fence-post or a modern residence—get the cement that will insure the most durable construction. Get

ASH GROVE SUPERFINE PORTLAND

for it is ground to per cent finer than the U.S Government specifications require.

Uncle Sam says that Portland cement must be so fine that 75 per cent will pass through a 200-mesh sieve. That it is the standard of ordinary cements. We make a cement according to the best method known. The result: 85 PER CENT OF ASH GROVE

will pass through the 200-mesh sieve. This means that in every 380-lb. barrel of Ash Grove you will get 38-lbs. more of the very finest cement than standard ground cement contains.

It also means a saving of 20 per cent in the amount of cement you use. This saving will be fully explained in our free booklet, which tells in a practical way how to use cement. Send for it and send your dealer's name, if he doesn't keep ASH GROVE SUPERFINE.

ASH GROVE LIME & PORTLAND CEMENT CO. Dept. 2 KANSAS CITY, MO.

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CITY VETERINARY

Thorough and complete course. Great Demand for Graduates as Practitioners, Teachers, Investigators, Sanitary Officers, Army Veterinarians, U. S. Inspectors. Catalog and other information sent on application, DR. S. STEWART, Secretary, 1342 East 15th Street, Kansas City, Mo.

SYCAMORE MINERAL SPRINGS,

KANSAG

The medicinal properties of these springs are unquestionable. The most persistent cases of RHEUMATISM, KIDNEY TROUBLE and STOMACH COMPLAINTS have been cured here. Hundreds of Kansas people visit these springs every year. Delightful health and pleasure resert; excellent hetel accommedations. Rates reasonable. Located 6 miles from Sabetha, Kan. For rurther particulars address SYCAMORE MINERAL SPRINGS HOTEL, Sabetha, Kan.

they are taking active parts in the religious activities of their several communities. It is not all of life to acquire more land, to build bigger barns and finer houses, to improve the quality of the live stock and to have the given of the focks and increase the size of the flocks and herds, but these fit in well with the kind of activities which lead to at-tendance upon the big convention of those who are assisting in the moral and spiritual uplift.

The Governor of Kansas last week appointed Hon. A. L. Sponsler of Hutchinson, a regent of the State Ag-ricultural College to succeed Hon. W. J. Tod of Maple Hill, who found it impossible to give adequate attention to the duties of the office. Mr. Sponsler's appointment is in every way a fortunate one. He is one of those broad-minded Kansans whose interest in farming comes from contact with the soil, and the production, feeding, and marketing of crops and live stock. As a man of affairs he was several years ago called to the direction and management of the fair at Hutchinson and has built it up to be a great institution in the holding of whose stock there is both honor and profit.

It will be seen from KANSAS FARMER market report that after all that was said attributing the advance in the price of wheat to the heavy dealings in May options, speculative prices on last Saturday, the last day of the "deal," were no higher than the prices paid by millers and others for the cash article that day. Kansas Farmer disapproves of the gambling which goes under the name of "option trading," but it is well to always keep within the facts regarding things con-demned as in all other matters. Specu-

cording to the law of legitimate supply and demand.

The extent of damage wrought to growing crops by insects some of which are unseen is more appalling as it is more fully realized. The economic entomologists are laying hold of their work with increasing knowledge and efficiency. It is well for every farmer to learn the ways of his insect foes so that he may the more effectually apply such preventive measures and such remedies as will reduce the losses. Fortunately the economic entomologists have adopted plain English in their discussions, using only enough scientific names to indicate classifications.

In future, great international questions will be decided upon the ground of justice, and the decisions of di-plomacy and arbitration—not by bloodshed. Hence, the urgent neces-sity for the schooling and training of diplomats who will always be able and ready to represent the interests of the United States. It is no longer war-fare, but adjustment. The demand is, and will be, not for great soldiers and generals, but for efficiency in matters diplomatic, which can only be acquired by training, experience and travel.-Henry Clews.

Measured by its yarn-producing-qualities, the cotton crop of 1908 is be-lieved to be the most valuable ever grown. The value of the crop to the growers is estimated at \$681,230,956, of which \$588,814,828 represents the value of the lint and \$92,416,128 the value of the seed. Notwithstanding the fact that the crop was 2,211,845 bales larger than the crop of 1907 and that the spinning qualities of this crop were superior, it has been disposed of by the growers at approximately \$20,-000,000 less than that of 1907.

The description and illustrations of a concrete barn built by Mr. Yoder of Indiana, are presented as suggestive of what may be done with this new building material. It is not presumed that readers will desire to build to these plans but the smartest people find profit in the devices of the able men who pioneer in new ways of do-

The proportion of imported wheat to the entire supply during 1908 was: in France, 1.9 per cent; in Germany, 39.1 per cent, and in England, 78.4 per

A good many farmers in the Kansas wheat belt are contracting this year's crop at a dollar a bushel.



A snap shot at some of Sutton Farm A berdeten-Angus cattle, near Lawrence.

READERS MARKET PLACE

HELP WANTED.

WANTED—A SOLICITOR WITH HORSE and buggy to drive through the country and solicit subscriptions. Address Circulation Manager. Kansas Farmer, Topeka, Kan.

WANTED—LOCAL MEN TO TAKE ORders for high grade western grown nursery stock. Experience unnecessary. Outfit free. Cash weekly. National Nurseries, Lawrence, Kan.

WANTED—LADY OR GENTLEMAN AS local representative in every Kansas county. Splendid chance to make good wages without great effort and no expense. Write for particulars. Address Circulation Department, Kansas Farmer, Topeka, Kan.

FOR EXCHANGE.

WE CAN GET YOU WHAT YOU WANT in exchange for your farm, hardware, mer-chandles or other property. We have 500 propositions te choose from. Graham Bros,

HORSES AND MULES.

STRAYED OR STOLEN-NIGHT OF April 30th one Sorrel Pony, rather old, weight 646, white in face, blind in left eye, clipped mane. Report any trace to A. H. T. A., Whitewater, Kan.

FOR SALE—ONE BLACK PEDIGREED standard bred stallion. Patriotta 41836, weight 1,250 lbs.; best breeding, two crosses with Wilkes and two with Nutwood. I will trade for Percheron stallion, jack or real estate. Address S. A. Baughman, Marysville, Kan.

SWINE

BERKSHIRE BOARS FOR SALE—FROM 125 lbs. te 256 lbs. of Masterpiece and Lord Premier breeding. G. D. Willems, Inman, Kan.

POLAND CHINA BOAR, FANCY U. C. by U. C. Perfection, bred by W. J. Honeyman. Farrowed July 8, 1906. A guaranteed breeder and first class individual. G. H. Randolph, Emporia, Kan.

DOGS.

FINE COLLIE PUPS \$5 EACH, BROOD bitches, \$10. John W. Treadway, Kincaid, Kan.

FOR SALE—COLLIES OF ALL AGES. Natural born cattle drivers. Pedigreed stock. Write for circular. Harry Wells, Belleville, Kan.

COLLIES—ALL AGES, CHOICE BRHED-ing and individuals. Workers and pets. Brookswere Marcellus at stud. G. Wickham, Anthony. Kan.

SCOTCH COLLIES—PUPS AND YOUNG dogs from the best blood in Scotland and America now for sale. All of my brood bitches and stud dogs are registered, well trained and natural workers. Emporia Kennels, Emporia, Kan. W. H. Richard.

COLLIES OF ALL AGES FOR SALE— They are stock drivers, pets and home pro-tectors. 256 head sold last year. Write for illustrated circular and prices. Would like to buy a few ferrots. Address Harvey's Dog Farm, Clay Genter, Neb.

Classified Advertising 3 cents a word

The rate for advertising in this department is low, only three cents per word each insertion. There is no more popular advertising than classified advertising. Every one reads classified ads, and just because they are classified. You can reach 50,000 farmers in Kansas and adjoining states, the best farmers on earth, through this page. All ads set in uniform style, no display. Initials and address count as words. Terms, invariably cash in advance.

POULTRY.

BUFF ROCK HENS \$1 to \$2; EGGS, 15, 75c; 45, \$2. W. A. Hilands, Culver, Kan.

FOR EGGS OF THE FAMOUS WHITE Wyandettes write J. H. Brown, Boyero, Colo.

ROSE COMB BROWN LEGHORN EGGS \$1.50 per 30, \$3.50 per 100. Mrs, Henry Rogler, Bazaar, Kan.

HOUDANS—AMERICAN AND ENGLISH strains. Eggs for sale. No more stock till fall. O. E. Henning, Wahoo, Neb.

BUFF COCHIN EGGS, BEST PEN, HIGH scoring birds, 15, \$1.50. Good hatch guaranteed. H. T. Housel, Jewell, Kan.

BLACK LANGSHAN EGGS—\$1 PER SET-ting, \$6 per 100. Baby chicks 10c each. Mrs. Geo. W. King, Selomon, Kan.

RHODE ISLAND REDS—WINNERS OF 10 premiums at State Show. Send for egg circular. R. B. Steele, Topeka, Kan.

PURE S. C. BROWN LEGHORN EGGS— From the best living strains, \$1 for 30, \$2 per 100. A. G. Dorr, Osage City, Kan.

WHITE PLYMOUTH ROCKS EXCLU-sively, large birds, good layers, farm range. Eggs \$4 per 106, \$2.50 per 50. Etta L. Wil-let, R. D. 1, Lawrence, Kan.

MANURE SPREADER.

FOR SALE—A NEW MANURE SPREADer, never used, none better made. It is for sale for a special reason at considerably less than the list price. If you have been thinking of buying a manure spreader, and every progressive farmer is thinking about buying one, here is your eppertunity to get an absolutely new one at a special price. Write quick. Address A. Turner, care Kansas Farmer, Topeka, Kan.

CATTLE.

POLLED JERSEYS—FOR BREEDER'S names write Charles S. Hatfeld, Box 8, R. 4, Springfield, Ohio.

FOR SALE—CHOICE HOLSTEIN BULLS id enough fer service, at farmer's prices. G. Pontius, Rantoul, Kan.

CHOICE HOLSTEIN BULL CALVES sired by Prince Ormsby Mercedes De Kel, large, growthy fellows and finely marked. J. P. Mast, Scranton, Kan.

SEE LESLIE OF ALYSDALE BY PRINCE Censert, out of Lord Mayer dam, calved May 8, 1903. Best individual of our last bull crop. I want to show him to you. Also offer some cows and heifers at fair prices. Come and see them. C. W. Merriam, Celumbian Bidg., Topeka, Kan.

REAL ESTATE.

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

320 ACRES IMPROVED, 280 ACRES GULtivated, balance pasture. Abundantly water-ed. Price \$8,000. G. H. Johns, Vine, Kan.

150 QUARTERS, \$6 TO \$20 PER ACRE; smooth and rich; Meade, Seward and Has-kell counties. McConnell, Plains, Meade

FOR SALE—GOOD 120-ACRE FARM near Mound Valley, Labette county, Kansas, Leaving country reason for selling. A bargain. R. B. Wadsworth, Meund Valley, Kan.

FIFTY QUARTER AND HALF SECTIONS and some larger tracts of good farming land for sale in Edwards and Ford counties, Kansas. Themas Darcey, Real Estate Agent, Offerle, Kan.

ILL HEALTH. \$6,000 QUARTER FOR \$4,800. Free possession including 55 twice plowed corn, 25 tame meadow, 70 tame pasture if sold in 20 days. Editor, Box 70, Mound Valley, Kan.

80 ACRES OF RICH CREEK BOTTOM, four miles from the center of Emporia, with fine improvements, five acres grass, good timber, splendid orchard and water. One of the best homes in Lyen county for \$6,200. Hurley & Jennings, Emporia, Kan.

LAND ON 40 YEARS' TIME. 2 MILLION acres Okia. school land in 40 years' time. Big opening 3 million acres Indian land on 4 years' time. 25c gets booklet telling all about it. M. N. Due, Publisher, Dept. 28, Tanument Okia. Tecumseh, Okla.

DO YOU WANT A HOME?—WE HAVE 100 of the best farms in southeastern Kansas on the easiest terms of any land sold in the state. Send for copy of the Southeastern Kansas Homeseeker, the best monthly land paper published—it is free. Address, The Allen Ceunty Investment Co., Longton, Kan.

FREE HOMES FOR EVERYBODY UNder the homestead and desert acts. Sulphur Springs Valley, Arizona, is fast settling. Water obtained at a depth as shallow as four and one-half feet. As fine alfalfa land as there is in the world. For further information address the McCall Realty Cempany, Cochise, Ariz.

LAWYERS.

A. A. GRAHAM, ATTORNEY AT LAW, Topeka, Kan.

CHEAP FOR THE MONEY—249 ACR good grain and stock farm, fair improments. Price \$5,500. 209 acres well improved to town. Fine stock and dairy far A bargain. Price \$5,800. Write for lists a maps. Garrison & Studebaker, McPherse Kan.

IMMEDIATE POSSESSION—80 ACRE 15 bottom, 65 cultivated, 15 pasture, new room house, outbuildings, good water, a acres of wheat, half goes. Price \$3,000. 1 kinds and sizes. Write for lists. Garriss & Studebaker, Salina, Kan.

FAMOUS CROOKED CRHEK VALLET.
If you want one to four quarters good has well located, good neighborhood, telephen daily mail, eight miles from Fowler, Mea Co., suitable for corn, wheat, alfaifs, all the able, no imprevements, twenty to thirty de lars per acre, write Owner, Box 83, Fowle Kan.

MISCELLANEOUS.

CONKEY'S ROUP CURE—POULTRY STP plies of all kinds for sale. G. H. Harris 210 W. 6th., Topeka, Kan.

FOR SALE—EVERYTHING IN BE supplies at lowest prices. Try my comfoundation. O. A. Keene, Topeka, Kan

GOOD NEW 14-ROOM HOTEL, FIR nished, in Phillips county, Kan., \$2,000. We small tract of land. H. W. White Land Co. Phillipsburg, Kan.

FOR SALE—BLICKENSDERFER TYPE writer good as new with reather travelle case; cost \$60; >rice \$30 if soid at one Jesse Johnson, Clay Center, Kan.

WANTED-TO RENT A DAIRY FARM everything furnished, by an experience farmer with family. Can give best of references. 317 East 5th, Hutchinsen, Kan

WANTED—FARMERS TO TRY OU Binder Tongue Supports which takes of the weight from the horses' necks Pra \$3.75 each. Wenzelmann Mfg. Co., Gala burg, Ill.

PORK MAKER WORM EXPELLER TO hogs. Farmer agents wanted to hands or remedy. Liberal commission. Write for particulars. Supplies furnished free. Mrss Remedy Co., Hebren, Neb.

EVERYTHING IN BEE SUPPLIES A lowest prices. Italian bees \$5.50 per colar I have some second hand 8-frame hive good condition with new frames and stare 75 cents each. Supers with new sections a startors ready for the bees, 50 cents. 0.4 Keene, Tepeka, Kan.

GENUINE BARGAINS IN HIGH-GRAD GENUINE BARGAINS IN HIGH-GRAD upright planos. Slightly used instrument 12 Steinways from \$250 up; 6 Webers for 250 up; 9 Krakauers from \$250 up; 7 Knake from \$250 up; 3 Chickerings from \$250 up; 3 Chickerings from \$250 up; 3 Chickerings from \$250 up; also ordinary second-hand uprights \$3 up also ordinary second-hand uprigh

PATENTS.

PATENTS PROCURED AND SOLD; Bl money in patents; book free. 115 Dearborn St., Chicago, III.

SEEDS AND PLANTS.

FREE CATALOG OF SEEDS-1 CEN and up per packet. Send name and address to H. M. Gardner (Seed Grewer) Mareas Neb.

MARKETS

Kansas City Stock Yards, May 31, 1909.—
Strength was the dominating feature of the cattle market last week, although there was a reverse on Wednesday, caused by a heavy run that day. The close of the week was 10 to 20c higher than close of previous week, with a top of \$7.00 on both heavy steers and yearlings, paid Tuesday. The supply today is liberal at 11,000 head, market steady to 10c lower. Light steers are selling nearest steady today, and the decline is on the heavier steers, although a shipment from feed lots of Fowler & Todd, Maple Hill, Kan., 1,474 pounds, sold at 06.80, today, same price a shipment from same feed lots brought Friday. Smaller proportion of receipts of heavy steers each week, and the gradual expansion of consumptive demand has proven almost sufficient to offset the adverse influence of high retail prices. On the other hand, American exporters of live animals have not been able to make a profit on shipments for some weeks, and export trade is therefore curtailed. The older heads, in summing up the situation, regard the outlook as favorable for stronger prices for fed cattle during the summer. Top steers today sold at \$6.90, bulk of steers \$5.90 to \$6.75, best helfers \$6.75, cows \$3.50 to \$5.75, calves \$4 to \$7.25, bulls \$3.50 to \$5.25, stockers \$3.75 to \$5.25, bulls \$3.50 to \$5.25, stockers \$3.75 to \$5.25, bulls \$3.50 to \$5.65.

Although hogs closed last week 10 to 15 cents below the best time, average prices for the week were highest of the year, and top price, \$7.50, was also highest for this year, and the best price paid here in the last six years. Run is 11,000 head today, market five higher on heavy hogs, 5 to 10c higher on medium and light weight, top \$7.35, bulk \$6.85 to \$7.30, including all weights. May receipts of hegs show a hortage of 50,000 head from same month last year, or 14 per cent, and predictions of a heavy June movement are not made with as much fervor or confidence as a few

last year, or 14 per cent, and predictions of a heavy June movement are not made with as much fervor or confidence as a few

weeks ago.
Sheep and lambs advanced 50 to 75 cents Sheep and lambs advanced 50 to 75 cents last week, and goats sold 25 to 50 cents higher. Run is small today, 4,000 head, market '10 to 11 higher, spring lambs at \$\frac{1}{2}\$ today, clipped lambs \$\frac{1}{2}\$. Clipped fed wethers \$\frac{1}{2}\$.65, clipped Arizona wethers \$\frac{1}{2}\$.65, clipped Arizona wethers \$\frac{1}{2}\$.50 to \$\frac{1}{2}\$.5 rushers \$\frac{3}{2}\$.55. The extraordinary prices do not seem to intimidate a sufficient number of consumers to cut down ment sales greatly, and the shortage in supplies for May, 29,00 head, or 17 per cent, from last year, is a strengthening feature.

ture. Chicago, May 31.—Cattle, top \$7.25; cows

10@15c lower; feeders steady. Hogs, 44,000; strong to 5c higher; top \$7.45; bulk \$7.20@7.40. Sheep, 12,000; steady. South St. Joe. May 31.—Cattle, steady. Hogs, 5,000, 5@10c higher: top \$7.40. bulk \$7@7.30. Sheep, 2,500; strong to 10c higher.

Cash Grain.

Cash Grain.

Monday being Memorial Day there was no grain market. Quotations for Saturday: Kansas City, May 29.—Hard wheat—No. 2, choice turkey, nominally \$1.38@1.40; fair to good turkey, nominally \$1.37@1.38; dark, nominally \$1.36@1.38; yellow and ordinary, 1 car \$1.37, 2 cars \$1.36.

No. 3 hard—Choice turkey, nominally \$1.36@1.38; dark, 1 car \$1.35; yellow and ordinary, nominally \$1.36@1.38; dark, 1 car \$1.35; yellow and ordinary, nominally \$1.36@1.38; turkey and dark, nominally \$1.36@1.36; turkey and dark, nominally \$1.33@1.34; ordinary, nominally \$1.30.

Soft wheat—No. 2, chonce, nominally \$1.55@1.55.

No. 3 soft—Choice, nominally \$1.52@1.55; fair to good, nominally \$1.43@1.45.

No. 4 soft—Nominally \$1.28@1.45; fair to good, nominally \$1.36.

No. 3 mixed—1 car \$1.35.

No. 4 mixed—1 car \$1.31.

Durum wheat—No. 2, nominally \$1.24.

White corn—No. 2, 1 car 72c, 6 cars 71½c.

Durum wheat—No. 2, nominally \$1.12 @1.14.
White corn—No. 2, 1 car 72c, 6 cars 71½c.
No. 3 white—1 car 71½c.
Mixed corn—No. 2, 3 cars 71c, 4 cars 70½c, 8 cars 70½c.
No. 3 mixed—7 cars 70½c, 5 cars 70½c.
Yellow corn—No. 2, 3 cars 71½c, 5 cars 71½c, 3 cars 71c.
No. 3 yellow—1 car 71½c, 1 car 71½c, 5 cars 71c.
White corts—No. 2, popularly 58½ @50½c

No. 3 yellow—1 car 71½c, 1 car 71½c, 5 cars 71c.
White oats—No. 2, nominally 58½ @59½c. No. 3 white—Choice, nominally 58½ @59½c. 2 cars 58½c; fair to good nominally, 57@ 58c, 1 car 58c, 1 car bulkhead 58c. Mixed oats—No. 2, nominally 56½ @57½c. No. 3 mixed—Nominally 56½ c; red, 1 car like sample 55c.
Rye—No. 2, nominally 83@85c.
Barley—No. 2, nominally 73½c.
Bran—Per cwt. sacked, nominally \$1.30. Shorts—Per cwt. sacked, nominally \$1.30. @1.40.

Corn chop—Per cwt. sacked, country, nominally \$1.34.

Butter, Eggs and Poultry.

Kansas City, May 31.—Butter—Firm.
Packing stock, 17½c; grease butter, 4c; creamery extras, 23c; creamery firsts, 21c; creamery seconds, 19c.

Eggs—Firm. Extras 22c; seconds, 17½c; current receipts, flat, 19½c; loss off 20½c; Southern eggs, loss off 19½c. In miscellaneous cases ½c less. All quotations are 1c less when cases are returned.

Poultry and game—Steady. Hens 11c; roosters, 6½c; spring, 14c; broilers, under

1½ pounds 18c, over 1½ pounds 24c; culls, 5c; young ducks, 7½c; turkey hens and young toms, 13c; old toms, 11c; pigeons, 50c per doz.; squabs, \$1@1.50; fat geese, 5c per pounds; poor geese, 5c.

Elgin, Ill., May 31.—Creamery butter, 25c.

Let us be of good cheer, however remembering that the misfortune hardest to bear are those which neve come.—Oliver Wendell Holms.



Terms Open Sept. 7, Oct. 18, Nov. 30, 1909, Jan. 3, Feb. 22, April 4, and May 17, 1910 A Standard College that comes just a little nearer meeting the demands of modern education that any other College in the country. Expenses of students annually reduced many thousands of dollars by the moderate charge for board and room in College buildings, where living expenses are furnished bractically at cost.

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Law Standard Courses in Law offered in resident and extension courses. Plano, Violin, mony, mandolin, guitar, in fact a full course in all grades of music. A fine faculty of teachers, each an artist in his line.

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Shorthand Shorthand and Typewilling as is found in the country. Every graduate sent to paying O. H. LONGWELL, President

completely equipped telegraph seeks 50 for full in wire practice and station work. 50 for full course, time unlimited.

Civil Service A Full Course in Railway Mall Service. Students may enter the Service. Students may enter the Service. Students in the Mome Study Over 7600 Students Earolled in the any subject you wish by correspondence. School. Almost Summer School opens June 11th, 1978. Special work for all grades of teachers. School and Commercial Courses, 815.00 a quarter, all and Commercial Courses, 815.00 a quarter. All and Rail an

DES MOINES, IOWA HIGHLAND PARK COLLEGE,

Bargains in Farms, Ranches, and City Property

SPECIAI. BARGAINS—80 acres 3 miles from Clyde, second bottom, \$50 per acre. 160 acres acar Green in Clay Co., 90 under plow, well improved, \$50 per acre. 160 acres pasture near town, \$3,500. Write for fine large list. WALTER NELSON, Clyde, Kan.

FOR SALE—Excellent farms from 50 to 1,000 acres at from eight to fifteen dollars per acre; write for catalog. JFFFREYS, HESTER & CO., Inc., Real Estate Agents, Chase City, Mecklenburg county, Virginia.

COMPLETE DESCRIPTION

Texas Panhandle, cevers 25 years, 32 pp., cemplete birdseye view and wall map Amarillo, 15,000 population, in heart of Panhandle, sent prepaid for 35c; clubs of four, \$1. Order today—edition limited. Mirror Publishing Co., Amarillo, Texas.

329 ACRES of extra good land, house of 14 rooms, a fine barn, and other good improvements, 2½ miles to town. One of Brown county's best. Enquire of R. A. HENRY,

The Real Estate Man,

Hiawatha, Kansas.

THE CREAT WHEAT FIELDS of Ford county are beginning to show themselves the great presperity for Ford county. We have lands in this territory for \$12.50 to \$20 per acre, close to German Lutheran, Catholic and other churches. Cooperation solicited. Price list furnished upon application. G. L. PAINTER & CO., Bodge City, Kan.

160 ACRE farm bargain, 7 miles northeast of Ness City. Small frame house 2 rooms, frame barn for 4 horses, hen house, small granary geoft well and windmill, 75 acres in cultivation, 35 acres in wheat, one-fourth with place, 12 acres alfalfa. Land can be plowed, nearly level, 1 mile to school. Price \$2,500. \$2,000 mast be cash.

J. C. LOHNES & SON, Ness City, Kan.

HERE IS A SNAP—150 acres, creek bettora farm, well located, does not overflow, all cultivated except 10 acres pasture, good or roca house, cellar and outbuildings good, barn for 5 herses, corn, alfaifa, wheat and English blue grass now on farm. All goes up to June 1 for \$7,500. Write me quick C. R. CANTRALL, Fredomia, Kan.

A GOOD GRAIN AND STOCK FARM.

320 acres of all good land and all can be farmed if desired. 90 acres in a high state of caltivation, balance in pasture and meadow, 10 acres of red claver, small cettage house, barn 32x2 holds 14 horses, large hay mew and other out utildings, all fenced and cross fenced, small erchard, good well of soft water, located 1½ miles from railroad tewn and 40 miles from Wichita, Kan, bargain at \$30 per acre.

THE NELSON REAL ESTATE & IMG. CO., 137 N. Main. St., Wichita, Kan.

LARGE TRACT OF LAND—If you are looking for a snap in a big proposition it will pay you to come to Great Bend and talk to me in regard to the best of land in Ford county at the price. Consists of 8,000 acres. Practically all farm land, 2,000 acres in cultivation, 800 in wheat, all goes with land, 500 to corn one-fourth goes, 200 acres now in alfalfa, 1,000 acres of alfalfa land, 20 miles of three wire fence, soil black loam, six room house, barn for 15 head of stock, 4,000 bu. granary, only 8 miles from good market. Price \$21 per acre, terms on \$45,000. Perfect title. C. L. WELLS, Great Bend, Kan.

ARKANSAS—"Don't you wish you had bought when you were here before?" That is what they all say; and then, buy before it doubles up again. What have you got that half equals it? You can't find it in America. Think of the money bags being hauled in by a single farmer. Thrashing and hauling 1,000 a day and more—getting the cash the same day. We have other propositions that will beat your best; besides, the bost climate, best roads, best water and fine people, and anything else you want. I own the cheapest land on Grand Prairie and can make you terms—won't price you out. Also, fine timber lands. F. W. HOUSTIN, Stuttgart, Ark.

LOOK AT THIS.

No. 503.—Here is a ranch of 2,960 acres, that we can recommend as good a cattle ranch as there is in the country; all under fence, plenty of water, 600 acres fine bottom land, suitable to grow alfalfa; the improvements, stone house, barn 50x35, stone shed 100 feet long, and all other necessary improvements that are required on a ranch of this kind. The survey of the new railroad running from Garden City to Stockton, runs near or through this place. Rural telephone and postoffice on the place. Price \$12.50 per acre part time will be given.

TEED & ORBISON,

Jetmore,

Kansas.

EXCHANGE COLUMN.

If You Want

a quick deal, list your trading property with us. We trade while the other fellow sleeps. We have exchanges for land, merchandise, live stock, or any-

NEFF REALTY CO., Olathe, Kansas.

Trades Wanted

direct from owners of farms, ranches, income property, merchandlise and hardware stocks, hotels, livery stocks. List your property with us, giving complete description. We can get what you want. No saie, no pay. Buyers wanted for good farms.

BERSIE REAL ESTATE AGENCY, Eldorado, Kansas.

500 TRADES.

We have the largest list of farms, ranches, income property, merchandise, hardware, hotels, liveries, etc., of any firm in the West. We print description or your property on our list, and will get you a good honest trade of just what you want.

GRAHAM BROTHERS, Eldorado,

FOR SALE.
320 acres of Butler county land, 70 acres in cultivation, plenty of spring water, good house and a big barn. Price \$20 per acre. This is a bargain.

GEO. F. RICKETTS,
Eldorado, Kansas.

WASHINGTON COUNTY LAND FOR sale—Two hundred acres 4 miles firm good town, 70 acres wheat, 5 room frame house, new barn 30x50, granaries, cribs, etc. All under fence. Price \$45 per acre. Very easy terms. W. J. GORDON, Washington, Kan.

CHEAP LAND.

If you are lacking for an investment an land that is sure to increase in value 25 per cent in the next six months you can get it by seeing or writing HALE & ENGLISH,

Dodge City, Kansas.

HODGEMAN COUNTY LANDS.

Map, beeklet, new list and general information sent premptly on request. Cheapest farms, quality considered in the state.

WINN REALITY CO.,

Jetmore, Kansas.

GRAY COUNTY, KANSAS.

75,000 acres of alfalfa and good farming land that is decidedly the best proposition for homeseekers or speculators to be found in the West. Big new list of farms upon request. G. N. DAVIS & CO., Cimmaron, Kan.

J. W. BRADSHAW,
The Land Man, of Herington, Kansas,
is offering a section of land with two sets of
improvements, six miles from Herington,
for \$45 per acre. 200 acres under cultivation.
A snap well worth \$50 per acre.

A SPECIAL BARGAIN.
From owner, square section wheat land in Logan county, Kan., 6½ miles from station, ¼ mile from school house. Can about all be cultivated. Will sell right and give terms. Address R. H. NUNN, Kansas. Address City,

GOOD FARM CHEAP—160 acres, 130 in cultivation, all fenced, 3 room house, barn, cow shed, poultry house and well and windingli, only 4 miles to R. R. where an elevator will be built this summer. Will take a small cash payment and give 5 years on balance. Price \$2,500. KIRBERG & MILLER, Ness City, Ness Co., Kan.

MARSHALL COUNTY BARGAINS.
Large list of improved farms for sale at \$40 to \$100 per acre. 200 trading propositions. Can match you en anything. Write

for complete list.
TROSPER & BLACKNEY,
Kans Frankfort,

A NESS COUNTY BARGAIN.—220 acres
12 miles from Ness City, 3 room lause,
frame barn, well and windmill. Some very
good alfalfa land. Price \$15 per acre. Call

good alfaira innu.
or address.
LOHNES & CASON,
Kansas.

86 ACRES UPLAND.
60 acres in cultivation, 14 acres alfalfa, balance pasture, 5-reem house, small grangry, some fruit, 2% miles from good town.
Price \$4,500.

J. S. BOYLE, Kansas. Bennington,

SCHUTTE & SHINEY, the Rush county, Kan., real estate hustlers; 30 years in the same old place. Good farmers raised from 26 to 47½ bushels of wheat per acre here last season. We can sell this land at from \$20 to \$35 per acre. Good improved ranch land, ½ good farm land, at \$15 per acre. Good bottom land not over 5 miles from market at \$25 to \$35 per acre. Well improved and running water, plenty of timber. Ece us er write us at La Crosse, Kan.

FOR SALE—320 acres of good wheat land in the famous wheat belt of Logan Co., Kan. 4 miles from Monument, and 3 miles from

4 miles from monaton.
Page.
40 acres in cultivation.
Price \$12.50 per acre. Purchaser to assume R. R. contract for about \$1,700. This is a snap.

Beloit, W. H. LINVILLE, Kansas.

A SNAP FOR SOME ONE.
640 acres of fine land 6 miles from Dodge
City, Kan., 230 acres in wheat, one-fourth
goes with land if seld by June 1. This is
all nice level land except about 40 acres and
will come in in good shape for pasture; no
other improvements. Price \$17.50 per acre.
Terms can be arranged on part, at 7 per
cent.

C. L. WELLS, Great Bend, Kansas.

Great Bend,

SOLD, and you did not get it. The 155 acre farm alvertised last week is sold and is new on the market for 39 days only at \$4,400. I now have two other bargains on my list. 160 acres 4 miles from Mound Valley, small two room house, stable for \$ hwrees, creek running through farm, land all in cultivation. Price \$4,800.

155 acres adjoining town, brick sidewalk right into city. 110 acres in cultivation, balance pasture with creek running through it, fair 6 room house and stable, telephane, rural route and natural gas privileges; an extra good location. Price \$8,000. Come and see, or write. extra good lo see, or write

J. P. DONOHUE, Mound Valley, Kansas.

ARE YOU LOOKING FOR A HOME?

No farmer should think of buying a home before seeing a copy of THE FARM AND REAL ENTATE JOURNAL. It contains the largest list of farm lands, city preperty and stocks of goods of any paper published west of Chicago. It reaches 56,006 readers each issue, 85 per cent of whom are farmers. Every one who has any property they wish to advertise will find this journal one of the best advertising mediums published. Advertising rates, 2c per werd each insertion. Send 75c and we will mail you the Journal for one year, or for 10e in sliver or stamps we will send it for two months on trial and stop it at the end of the two menths unless you renew your subscription. FARM AND REAL ESTATE JURNAL, TRAER, IOWA.

ROOKS COUNTY LAND

One Hundred Farms for Sale. Write for Lists.

C. H. DEWEY, -:- Stockton, Kan.



Kansas State Agricultural College

KANSAS BARGAINS.

160 acres Rush county, Kansas, unimproved, three miles from market. A bargain at \$2,400.

320 acres bottom land, improved, three miles from market. A snap at \$35 an acre. Write for my latest list.

JAS. H. LITTLE, The Rush County Land Man, La Crosse, Kansas.

For Quick Sale.

160 acres in Trego county, 80 acres wheat.
All goes \$1,600. Re quick.
STEVENS & RUBY,
Stockton, Kan.

Missouri Farms For Sale.

Everman has a farm for every man. Write for description and price list. JOHN W. EVERMAN, Gallatia, Mo.

Ford County, Kan. Lands.

For sale. Write for price list and crop reports. Cooperation solicited.

BROWN & VERNON,

Dodge City,

Kansas.

HELLO FARMERS!

Have you read my list of GREENWOOD CO. FARMS? The best cern, alfalfa, clover, cattle and heg country in the west. Fine blue stem pastures. Write for list and prices to P. D. STOUGHTON, Madison, Kan.

Hodgeman County Lands.

Choice wheat and ranch lands. Write for price list and county map.
F. M. PETERSON,
Jetmore,
Kansas. Jetmore,

Ozark Fruit Farm For Sale.

120 acres, 60 acres in cultivation, balance fine timber. Good 3 room house, 3 fine springs, fine apple orchard, large thrifty trees, other fruits. 1 mile from town. Good reason for selling. Price \$1,000. Write me for full particulars.

JOHN D. BAKER,

Ava, Douglas County, Missouri.

EUREKA.

No. 48, a splendid 160 acre farm, rich soil, all can be farmed, 65 acres in crop, ¼ with farm, 8 miles of Dodge City, county seat, for the low price of \$2,700. Got to have money; if you want a bargain get next; "nough said!" Send for big list.

STINSON & WEYLAND, Kansas.

FIRST-CLASS CORN, ALFALFA AND HOG FARM.

Eighty acres, 65 acres in cultivation, 15 acres in pasture, has 5 room house, new barn for 12 horses with large hay mow and other outbuildings small orchard, 2 wells of good water, is fenced and cross fenced. Located 3 miles from the packing houses; this is all bottom land that does not overflow. Price \$8,500.

THE NELSON REAL ESTATE & IMG. CO.,

Zimmerman Irrigated Lands

The cream of the Pecos Valley. Now open. All river-front sections. The best alfalfa and fruit lands in America. Sold in 49-acre tracts, which will provide a permanent annual income of \$1,500 or more annually. Price \$40 per acre on 5 years' time, without interest or taxes, including perpetual water-right, \$0 cents per acre as first payment. Address

THE HEATH COMPANY. 109 West Seventh St.

SMITH COUNTY, KAN.

160 acres 1 mile from railroad town; 80 acres in cultivation, reasonably well improved. Will sell for \$3,500. Terms. 80 acres 3 miles from Athol, nearly all in cultivation, \$3,750. Terms easy. No improvements but a dandy ments but a dandy. CARL G. ANDERSON,

Kansas.

Buy Western Kansas Land.

Should you want to buy any western Kansas land for speculation of for a home, don't fail to write me. I am selling land throughout all counties in western Kansas. I am myself farming extensively on the kind of land I offer for sale. I can sell you land that will make you money. Write me at once for prices. Address

EUGENE WILLIAMS,

Minneols.

HOME IN MANHATTAN

or Lands anywhere in Kansas. See Manhattan Realty Co., HULL & MOORE, Manhattan, Kan. You should buy or rent this summer. Write us

[First published in Kansas Farmer May 28, 1909.]

Notice of Appointment,
State of Kansas, Shawnee county, Sa.
In the matter of the estate of Marcus O.
Frost, late of Shawnee county, Kan.
Notice is hereby given that on the 19th day of May A. D. 1909, the undersigned was, by the probate court of Shawnee county, Kan., duly appointed excrutrix of the estate of Marcus O. Frost, late of Shawnee county, deceased. All parties interested in said estate will take notice and govern themselves accordingly MATTIE E. FROST, P. H. CONEY, Executrix.

The Stray List.

MAY 22.

Harper Co., R. P. Chevraux, Clk.
Taken up by Geo. W. Carothers, in Antheny township, Harper Co., on April 29, 1909, one bay filley; wire cut on left fere leg, black mane, tall und legs; small spet in forehead. Wt. about 500 lbs. Value \$66.

JUNE 5.

W. H. Shaffer, County Clerk.

Taken up on the 3d day of May, A. D.
1909, by J. G. Johnson, Garden Twp., Cherokes County, P. O. Galena, 1 mule, about 13
hands high, mouse color, branded C. C. on breast; scar on right foreleg above knee; valued at \$35.

JUNE 5.

Edward Iverson, County Clerk.

Taken up by Henry Nieman, April 29,
1909, in Walnut Twp., Atchison Co., a red
cow, weight about 800 lbs.; valued at \$80.

MEN WANTED.

We want men to travel in the country and take subscriptions. If you are willing to make an honest effort, and will work we have an offer for you that is a first class money maker. But you must be honest and reliable, and come to us well recommended. We can give you good territory in which to work anywhere in Kansas, or you can take your horse and rig, or bicycle and canvass in your own commun-

If you can make a success as a subscription agent, your Mceess as a salesman in any line is assured. It is the best training a young man can have, and working for a publication like Kansas Farmer, that is so generally and favorably known throughout the state practically insures your success.

Write for full particulars to circulation department.

KANSAS FARMER.

Topeka, Kansas.

Safety Hitch Strap Free

This patent Hitch Buckle does away with tying and untying a troublesome knot and keeps the strap from slipping down on the post. The harder the horse pulls the tighten he is hitched, but the buckle can be loosened instantly and it never cuts the strap. Strap is made of web lighter and stronger than leather and will outwear any other strap made. Remember that this



Safety Hitch Strap is the only one made that will stay just where it is fastened and cannot be moved up or down by the movement of the horse. No harness is complete without one. And you can get it for nothing.

Send us \$1.00 for a new or renewal subscription to Kansas Farmer for one year and the strap complete will be sent you absolutely free and postage paid. Address KANSAS FARMER, Topeka, Kan.

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LIVE STOCK



The Rambouillet.

Rambouillet sheep were bred up in France from Spanish Merino foundation, and are larger bodied than Delaines, with longer, less dense and drier fleece. Occasionally the wool is fine enough to class as Delaine wool. The writer a few years ago took a trip through nearly all the range states looking for fine wool range sheep, and judging from what he saw on the trip, the Rambouillet is gradually dis-placing other fine-wool sheep on the range. The range man expects to make a good share of his profits in these days from his lambs, and the larger ewe he can get the better the results. A good bunch of pure bred Rambouillet ewes will shear about 15 pounds per head and weigh 150 pounds after shearing.

The Shropshire is the most popular of the blackfaced breeds of sheep, both upon the farm and for crossing upon range ewes. They are of good size, shear a fair weight of fleece and of superior mutton type.

The Southdown sheep surpasses the Shropshire in mutton type, but on account of their small size have never become popular on the range.

The breeder of rams for the range will find that the Shropshire has one advantage over fine wool sheep, and that is that when he puts his surplus ewe lambs on the market for mutton the Shropshires will be fatter and give a better quality mutton than the fine wools. And this same statement applies to all of the black-faced sheep, as they are all known as mutton sheep. Hampshires.

The Hampshire is a larger sheep than the Shropshire, somewhat coarser and does not have as heavy a fleece. Their special advantage is that the lambs are quick maturing and grow to a heavy weight. As a result the Hampshire is growing in popularity for the mutton cross on the range. The ewes are unusually good milkers.

OXFORD DOWNS. This breed is the largest of the black faces. They have a long, coarse fleece,

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but it is neither long enough nor coarse enough to class as a long wool. The Oxford is fairly popular on the range for the mutton cross, because of the large size of the lambs.

LINCOLNS.

The Lincoln is a long wool. They are the largest breed of sheep used to any extent on the range. When used they are run the year round in the same way as the Merinos, but as a rule no outcross is made with another breed, although some sheep men use the Lincoln or Cotswold cross on Merino foundation.

COTSWOLDS.

The Cotswold is a sheep very similar to the Lincoln, although not quite so large. The range man uses Lincolns and Cotswolds somewhat indiscriminately, and it would be difficult to give one a place over the other on the

Young Pig Management.
A hog is half made when past the weaning period without a stunt or kink in its growth. Every check or halt in prosperity through its first two months is more expensive than at any later period. Too much rich, fe-verish milk of the dam, causing thumps or other ailment, may leave harmful results, perhaps as much so as scant feeding or other neglect of the sow. More injury may be done to a pig's growth in two or three days than can be repaired in a month, even if he is made the subject of special care, which where many are raised is not the rule nor easily practicable. 'Good luck" with pigs calls for attention, and that not occasional, but fre-

From the first week after farrowing until weaning time the sow will be little else than a milk machine, and to be a high-power machine in perfect operation she must have proper care. Nothing else is so well calculated to make pigs grow as a bountiful supply of wholesome sow's milk, and the pigs that have plenty of other feed with the milk of a well-slopped sow for eight weeks will ordinarily have much the start of those weaned at five or six weeks, no matter how much food and attention the earlier weaned pigs may have had.

quent and regular.

At eight or nine weeks old most pigs are, or rather should be, fit to take away from the sow; some litters are individually older at seven weeks than others at ten, and better fitted for weaning. Sometimes it is necessary to wean when the pigs are five or six weeks old, and in other cases it may be advisable to wait until the pigs are ten weeks or even older. In the cornbelt the period will generally average longer than in New England. Breeders who wean at early ages generally do so in order to more profitably aise two litters a year.

Provided with and taught to eat suitable feed some weeks beforehand pigs are not noticeably checked in their growth by weaning, but those that have been dependent mainly upon the mother's milk, when abruptly

taken away from it, frequently seem to have their growth partially suspended for weeks. Many breeders successfully let the sow wean her pigs, as she will in time, and the change is so gradual that no pause in growth indicates when the milk diet ceased. A modified application of this, in which the pigs are separated from the sow at an age suiting their feeding and the convenience of the breeder, will not infrequently be found advisable, but by no means should the pigs be allowed to remain with a sow until she is virtually devoured by them as is sometimes done.

It is not a good plan to take all the pigs from the sow, unless one or two of them can be turned with her some hours after, to draw the milk she will have at that time, and again, say after a lapse of 24 hours. The preferred way is to leave about two of the smallest with her for several days, and after that leave only one for two or three days more, by which time the flow of milk will have been so gradually diminished that no injury to the sow will result by keeping them entirely away from her. This extra supply of milk helps also to push the smaller pigs along in growth and put them more nearly on an equality in size with their thriftier mates.—From Coburn's "Swine in America."

Increasing Prevalence of Animal Tuberculosis.

The reports of the Bureau of Animal Industry of the United States Department of Agriculture indicate that tuberculosis among live stock is steadily increasing, as shown by the number of animals found affected at the various slaughtering concerns. The increase in the number of cases found is due in part, but only in part, to the increased efficiency of the method of inspection. The meat inspection figures show that nearly one per cent of cattle and over two per cent of hogs slaughtered are tuberculous, which is surely an alarming condition.

Feeding experiments conducted by the Bureau have proved conclusively that hogs are readily infected through the ingestion of feces and milk from tuberculous cows. There is therefore no doubt that the prevalence of the disease in hogs could be greatly reduced simply by eradicating it from

Considerable testing of cattle has been done in Washington, D. C., and vicinity for the purpose of assisting the district authorities in obtaining a pure milk supply, and of obtaining for the Bureau further information regarding the extent of tuberculosis in the locality and for other purposes. In these tests about 17 per cent of the dairy cattle reacted.

The percentage of tuberculosis in various states, shown by tests conducted by the officials in those states with Bureau tuberculin, indicates that from 2.79 to 19.69 per cent of the cows react, and it is estimated that in the country at large at least 10 per cent of the cows in dairy herds are tuberculous.

The recent agitation against the milk of tuberculous cows as human food has had the effect of causing many herds to be examined, with astonishing results not only to the owners but to the officials themselves. Can it be wondered at that so many infants and children die of intestinal tuberculosis when so many of the cows from which milk is obtained are tuberculous?

Without considering the matter as a public health question but looking at it entirely from an economic standpoint and as a business proposition, live stock raisers can not afford to have tuberculosis in their herds. As an illustration, Argentina requires that all cattle imported into that country shall be subjected to the tuberculin test upon arrival, and as a consequence exporters from the United States have had the test made on cattle intended for shipment. The results of these tests showed that in some of the pure bred herds nearly 50 per cent of the animals were diseased and in consequence sales were lost.

When the practise becomes general for all buyers of breeding cattle to have animals tested before placing them in their herds the breeder of strictly healthy cattle will be much sought after. Already some breeders of pure bred cattle have established or are arranging to establish such herds. As soon as the breeders fully understand the fact that it is unprofitable to go on breeding cattle while tuberculosis exists in their herds much of the objection raised against the sale

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of live stock subject to inspection will disappear, for it would be worth the price of several condemned animals for the owner of a valuable herd to know the fact as early as possible if the disease exists in his herd, as the longer he delays in taking steps to prevent its spread the greater will be his loss eventually. Figures for the last year secured from abattoirs where Federal inspection is maintained show that over 10 billion pounds of meat was inspected, 46 million pounds of which was condemned, nearly three-fourths being for tuberculosis. The recent effort of the large pack-

ing interests to buy all dairy cows subject to post-mortem inspection shows how serious the plague is becoming. Sooner or later the man who raises tuberculous animals must suffer the loss, unless the loss is paid for out of public funds; and when the loss is placed upon the producer we may know that the end of the disease is in

It may at some time be necessary for the Federal Government to quarantine against interstate shipments of cows from certain states where the disease prevails to a considerable extent, and require a strict supervision over all animals removed from such states for interstate shipment, and only remove the quarantine from sections of the state when it has been demonstrated that the disease either has been eradicated or is under strict local quarantine.

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Combine Efforts to Protect Sheep. E. E. HAZEN, SECRETARY KANSAS SHEEP BREEDERS' ASSOCIATION.

My neighbor south of town lost 32 sheep by dogs, four killed that night and twenty-eight died since. Sheepmen can not expect to get a dog law unless they make a concentrated effort, and that can only be done by a good strong association. Mad dogs have caused quite a loss in stock, mostly cattle here in Brown county in the last two or three months, just how much is hard to estimate, and reports are conflicting. However, many here think dogs should be taxed and the loss caused by them paid out of the found and to drag our roads with the balance would be my idea, providing such a law would be constitutional.

Hiawatha City, where the first rabid dogs were, has raised their dog taxes to \$5 and in the country it should be not less than \$2. This tax would thin out the worthless cur dogs and usually they are the dogs that do the damage.

These worthless dogs are the greatest drawback to the sheep industry in Kansas and their best places to attack sheep are in the best sheep land, the brush land and hilly land. The brush and hills give the dogs protection during the day.

Mr. Coburn estimates there are in the state 188,000 dogs, each at \$2 these would pay the damage done and help solve the question of better roads, and I find the man who has a good dog is in favor of a tax for he claims that the worthless dog many times spoils his useful dog.

Let us have a good strong sheep association then go after a dog law as other states have done.

The Morgan Horse.

The modern trotting horse is an American product. Love for field sports, which is inherent in the Anglo Saxon, developed the Thorough-bred on English soil and the same love developed the Standard-bred on American soil. The trotting horse is the result of judicious breeding of many different strains upon a Thoroughbred foundation. As a matter of course these breeding operations, conducted by many different men in different sections of the country, have devel-oped different families of trotters. The Hambletonians, the Mambrines, the Clays, the Morgans, the Bashaws and the Pilots are the most famous and when we remember that, less than three quarters of a century ago the American trotting horse, as a distinct breed, was unthought of we must admit that results are marvelous. In no department of stock-breeding is the influence of heredity and of patient selection with a view to the transmission and improvement of a desired quality more apparent than in the breeding of the trotting horse.

and splendid, useful, all-round horses. The Morgan has glanced out of the lime light with those who place speed above everything else though at one time its popularity was unbounded. It remains true, however, that no blood, excepting that of the Thoroughbred, has been so generally disseminated or held in such high esteem as the Mor-

The oldest of these trotting families

is the Morgan and, while they may not have produced our fastest trotters

they take the first rank as roadsters

The pioneers of the West did their farm work with pony stock. Later the farmers turned to the draft breeds and now there is a growing demand for a horse that is between these extremes and the Morgan may come again to his own. There never was a better all-round horse on American soil than the Morgan and liverymen everywhere bear testimony as to its value. This office has a number of inquiries about Morgan horses and if any of our readers can give us the names of Morgan owners, especially the owners of Morgan mares, they will be thankfully received.

These are the days in which the slickers crawl out of their crysalis overcoats and begin traveling around the country in search of easy marks. Shakespeare says: "Give every man thy ear, but few thy voice." Listen courteously if you have time, but beware of making rash promises, especially with pen and ink. Above all things do not be persuaded into buying what you do not want even though it may be the greatest thing that ever happened. If needing anything investigate fully before buying that you may not subsequently have bitter regrets.—Field and Farm.

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Friday, June 11, at College Sale Pavilion.

THE AGRICULTURAL COLLEGE offers 16 females and 2 bulls, including the 2-year-old Orange Blossom Orange Lavender, a grandson of the champion Lavender Viscount and out of a dam by imp. Master of the Rolls. He is a very prepotent sire, count and out of a dam by imp. Master of the Rolls. He is a very prepotent sire, count and out of a dam by imp. Master of the Rolls. He is a very prepotent sire, count and out of a dam by imp. Master of the College herd. Mary of having been used with great success for two years in the College herd. Mary of Elderlawn, probably the most valuable cow ever in the College herd, dam of College Elderlawn, probably the most valuable cow ever in the College herd, dam of College Elderlawn, grand champion female at Hutchinson, 1908, and a full sister and full brother of the Grove.

T. J. WORNALL & SONS offer 5 females and 3 bulls. The Marvel, a Lavender, a red fall yearling by imp. Conqueror, Gloster's Conqueror 2d, a Duchess of Gloster are deally earling by Imp. Conqueror, Gloster's Conqueror 2d, a Duchess of Choice Goods, and Grassland Emma, a show helfer, a roan Butterfly by The Conqueror, dam by Invincible Hampton are attractions.

T. K. TOMSON & SONS offer 9 females and 5 bulls, among them Director, a T. K. TOMSON & SONS offer 9 females and 5 bulls, among them Director, a two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons of Lord Mayor: Gratitude, a roan fall yearling Scotch helfer two Mysies, grandsons

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Buy Babcock Tester

A creamery patron writes that he is selling his cream and his average test is from 23 to 25 per cent butter-fat. He has churned some of the cream and says he can make 10 pounds of butter from 37 pounds of cream. He asks what should be the butter-fat test of the 37 pounds of cream.

Butter is 82 per cent fat. The churned butter should contain 8.2 pounds of butter-fat, which amount of fat would be contained in the 37 pounds of cream. The cream then should test 22.2 per cent fat.

Entirely too many farmers think they are being robbed by the creameries. A little figuring will often dispel the idea. Th use of a Babcock tester costing a few dollars will prevent unfair dealing or prove that the guess is a bad one.

The Hard Milker.

Many a valuable, hard milking cow has been ruined, owing to the fact that the milker has used a milking tube and by the use of the milking tube the udder has become infected, oftentime losing one or more quarters. It is not advisable to use a milking tube if one can possibly get along without it.

The proper method of handling or overcoming hard milking in cows or heifers is by the use of a teat plug. The teats should be washed with a germ killer solution and the teat plug dipped in the same solution, then dipped in a little healing ointment and passed into the point of the teat. The teat plug being itself retaining should be permitted to remain in the teats from one milking to another. This will overcome hard milking in cows and heifers.

This same treatment is valuable in the treatment of sore teats where the sore is at the point of the teat where it interferes with milking.-Dr. David Roberts.

East Twenty Years Behind Times.

Ordinarily the Western dairyman looks to his friends in the East for advanced ideas in dairy practise. It seems that in some lines of progress the East is not in advance of the West. For example all milk used in the manufacture of cheese in the west ern states has for years been bought on the basis of its butter-fat content. Western farmers are well satisfied that the Babcock test accurately determines the value of milk for commercial purposes.

The Geneva Experiment Station of New York has just issued a bulletin urging the adoption of the fat test as the basis of paying for milk at all cheese factories. Owners of cows producing milk low in fat will suffer some reduction in dividends from the

adoption of the system; but the facts and figures given prove that, quality and quantity of cheese both considered, the simple fat test gives the fair est measure of the value of the milk for producing cheese. Payment by weight of milk alone is condemned as unjust and leading to dishonesty.

Value of a Good Bull.

"Did you use a scrub bull last year, and are you saving his heifer calves from your best cows?" is a question pertinent to all dairymen asked and answered by Malcom H. Gardner, dairy man and writer. "What assurance have you that the calves will be even as good as their dams? Would it not have been better to have bought a pure bred dairy bull? Yes, pure bred bulls cost money, and he might have cost \$100. Is that a large sum to pay out? Let us look into the matter. Suppose that such a bull sires for you but 10 heifer calves, and that each one of them when she comes into milk gives but one pint of milk at each milking more than her dam gave at like age, or 600 pints for the 600 milkings of the year, which is worth six dollars to you. But you milk a cow an average of seven years, and the one cow turns you \$42 more than her dam. Ten such cows means \$420. The probabilities are that the increased milk they would yield over their dams would be worth \$1,000. How, then, can any intelligent man afford to use a scrub bull?"

Sllo Advantages.

"There are numerous reasons why a silo is a good investment," writes C. B. Wilson in a dairy paper. experience has been that early frosts leave the corn fodder in bad shape for shocking in the field, whereas it it is put up in silage immediately after frost, none of the feed is lost. Enough water may be added to take the place of the moisture that is de stroyed by the frost. Twelve acres of corn will fill my silo and feed my herd of 20 cows, 10 heifers and a number of heifer calves, for seven months. The little fellows are induced to eat silage at an early age. A grain ration is fed with it. My neighbors use the dry fodder from 15 acres to feed 10 head of milk cows but I am pleased to say that one of them has been observing by experience and announced that he will have a silo next fall. He seems to influence others and I look forward to several

new silos in this community.

"After taking the corn from the field, plowing can proceed at once, better enabling the farmer to establish the necessary crop rotation. To sum it up, the crop is stored in the silo better than in the crib or in the stack.

1909 1909 OUR YOUR SIDE OF SIDE OF THE QUESTION THE QUESTION The United States Separator has built up a reputation for efficiency and durability that makes it the foremost machine from every stand-You buy a Cream Separator, not on account of some "fancy talking points," but because it will enable you to handle your dairy product more easily and with greater profit. point of separator requirements. We prize that reputation and in the changes we have made for 1909 every feature that has helped to make the United States famous as the re-liable separator has been A machine that will handle more milk. That will skim it more thor-oughly. That will lose least in bowl flushing and that can be kept clean and sanitary with the least trouble. These are your requirements, and a trial will convince you that the latest model U. S. embodies all of these essential features, to a greater extent than has ever before heep received in Separator. Every improvement that has in made has been made with the ct of building up and adding to hat reputation. We have added "working points" and not fancy "talking points." been reached in Separator U.S. DURABILITY FOR DAIRYMEN WHO KNOW AND DEMAND THE Send for Will Bring It Catalogue 91 Free Vermont Farm Machine Co., Bellows Falls, Vermont

U.S.

The cobs and the stalks, even the most woody part, are easily digested by the cattle when fed in the form of silage. Silage is the best winter substitute for grass, it is bulky. juicy. nourishing and a splendid producer of milk. There is no waste. It is housed so as not to necessitate exposure to the farmer in feeding even in the severest weather. When abundant pro vision is made for silage, there is no loss incident to short pastures during the summer drouth."

Offical Butter-Fat Records.

The Holstein is each year becoming a greater factor in the dairy industry. As a breed the Holsteins are producing more butter-fat than any other breed doing business on this side of the water. The Holstein-Friesian Association has just reported the official tests of 150 animals of which a few more than one-half were heifers with first and second calves. This herd produced in seven consecutive days 59,998.3 pounds of milk containing 2,140.265 pounds of butter-fat; thus showing an average of 3.57 per cent fat. The average production of each animal was 400 pounds of milk containing 14.28 pounds of butter-fat; equivalent to 57 pounds or 27 quarts of milk per day, and 16.65 pounds of commercial butter per week

This issue of the official reports deminds us of the days of Pieterje 2d, one of the cows reported averaging over 102 pounds of milk per day for a period of 30 days, and another over 110 pounds per day for a period of seven days; only in that day we had no easy way of showing the amount of fat in milk, while in the case of these two cows the fat production for seven days is nearly 25 pounds each The cows are ready Change, 24.926 pounds fat from 720.4 pounds milk in seven days, 103.357 pounds fat from 3,069.9 pounds milk in 30 days, and Winana Pietertje De Kol 2d, 24.896 pounds fat from 772.4 pounds milk. The milk production for the latter amounts for the seven days to 368 quarts of full measure; which, if sold at six cents per quart, would amount to \$22.08 for the week. This means 52½ quarts of milk per day, with a value of \$3.15. We have not space to comment on the month's production, but the reader can do that for himself; and it must not be forgotten that each of these cows produced fat enough to make 29 pounds of the best commercial butter in seven days.

How to Preserve Wooden Silos. In case of wooden silos it is neces sary to apply some material which will render the wood imperivous to water. and preserve it from decay. A great variety of preparations have been recommended and used for this purpose. Coal tar has been applied by a large number of farmers, and has been found effective and durable. It may be put on either hot, alone or mixed with resin, or dissolved in gasoline. If it is to be applied hot, some

of the oil contained in the tar must

AMERICAN SEPARATOR AMERICAN SEPARATOR CO.







PATENTS TRADE-MARKS and COPYRIGHTS Book "How to Obtain Patents" FREE E. G. SIGGERS, Box 7, N. U. Bldg., Washington, J.C.

length, from a stick which has been poured into an iron kettle, a handful of straw is ignited and then thrown into the kettle, which will cause the



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THER manufacturers have but one style to offer you. Don't be talked into buying any one hobby. It may not fit your ideas, your needs, your purse. Come to headquarters where the different standard styles are made, and where each style is made better than anywhere else. And we manufacture a full range of sizes in each style, giving you double the choice that others offer. others offer.



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Because all are first grade machines. They differ in style, but not in quality. They differ in price because one style or model, costs less to make than the other. When a man claims everything for one model, it is because he has no other—he must sell you that or none. We make different styles because we have the necessary patents and facilities and the necessary "know how." Therefore, we can and do give the unbiased truth about each style, we can afford to give facts instead of claims, for we don't care which we sell you—suit yourself in design and separating method—in capacity and price.

No matter how few or how many cows you milk, one of the Empires will just meet your needs as to capacity. And any Empire you choose will do the work year after year, paying for itself over and over again. Remember that, when considering the so-called "bargain price" of the "little while" separator.

DAIRY BOOK-FREE

Write today for the Empire Book, the fairest most impartial cream separator book ever published. As it describest different kinds without prejudice, it will enable you to select the style that will make the most money for you. And our prices and Guaranty will interest you. Address

Empire Cream Separator Co.,

Factory, Bloomfield, N. J.

Chicago, Ill.

flash and burn off. The tar is ently burnt when it will string fine threads, a foot or more in usly be burnt off. The tar is into a blazing kettle and afterplunged into cold water. The then put out by placing a tight over the kettle. The kettle must ept over the fire until the silo g has been gone over. A mop or all whisk broom cut short, so stiff, may serve for putting on the

al tar and gasoline have also been by many with good success. t half a gallon of coal tar and hirds of a gallon of gasoline are d at a time, stirring it while it is put on. Since gasoline is highly mmable, care must be taken not e any fire around when this mixis applied. Asbestos paint has been recommended for the preser n of silo walls, and would seem well adapted for this purpose.

my silos are preserved by appliof a mixture of equal parts of linseed oil and black oil, or one of the former to two of the latter. mixture applied every other year, re filling time, seems to preserve ining perfectly. In building round is is recommended to paint the ds with hot coal tar, and placing ainted sides face to face.

alls of wooden silos that have preserved by one of the other of methods will only keep solid and from decay if the silos are built to insure good ventilation. Pretion will not save a non-venti-silo structure from decay.

onsiderable number of wood silos use that were not treated on nside with any preservative or and have stood very well. In some writers maintain that if ilo is well protected on the out-a stave silo received little if any it from inside coatings.

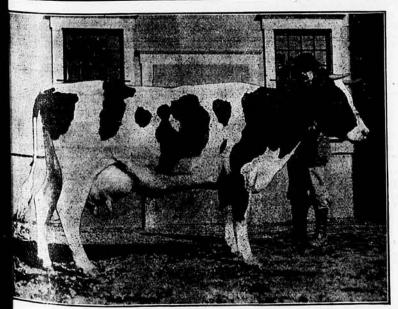
foregoing appears in "Modern Methods," a 224-page book pubd by the Silver Mfg. Co., Salem,
Every reader of this paper
ld look up their ad on another

Clean the Farm Separator.

he mechanical care of a separaimportant as affecting its durathe sanitary care is doubly so flecting the purity of the product passes through it. Milk is one quickest to become unfit for if it is not kept clean and handled ean vessels. While the purchaser separator has been again and impressed with the idea that it be kept in perfect order, the

same agent who went to such pains on this point tells him sometimes that the parts which come in contact with the milk need not be washed oftener than once a day and that the cream could be delivered once a week. 1 would be one of the greatest blessings to the dairyman, th creamery man, and the consumer, if the machine should go to pieces in a month if not kept scrupulously clean all the time. The advantage of the hand separator to the farmer may turn to naught unless cleanliness, which is essential to purity of product and to profit in the business, is thoroughly impressed upon the user. It is not enough to rinse the machine out with a little warm water and let it stand until the next time. The slime and solid particles of unclean matter in the milk that are caught and held in the bowl do the harm. Rinsing will not remove these. The temperature is just right to set this material to decaying at once; and if the parts are not clean an evil sme'l soon develops. The machine must be well washed after every separation of milk.

There are some things that the av erage housewife needs to learn about washing vessels that come in contact with milk. The dish cloth as found in the average kitchen should never be used on dairy utensils. It is the exception where one will be found to smell sweet an hour after it has been used; and yet milk utensils are often washed with it and wiped with a towel that has done duty of all of the china and glassware of the household, and possibly the pots and kettles, be fore the tinware of the separator is Discard the dishcloth and touched. the dish towel when the milk utensils are being washed. Wash them in are being washed. warm water first, with plenty of some good cleaner or cleanser, and use a brush to do the work, but never a rag. Get into every part of them, after which rinse off with clean warm wa ter, and then eithed put them in boiling water or pour boiling water over them. Stand the parts up so that they will drain, and use no cloth to wipe them. The hot surface will dry them quickly, and they will be clean. Leave the parts in a sunshiny place if pos sible. This may seem to be putting too much stress on the case, but the evidence gathered in the field shows along this line. The outside of the frame, which does not come in contact with the milk, needs the same scrupulous care. Cases have been noted where the color of the machine could generally be distinguished because the color of the machine could generally be distinguished because the color of the machine could generally be distinguished because the color of the machine could generally be distinguished because the color of the machine could generally be distinguished. could scarcely be distinguished be-cause of the grease and dirt or dried milk covering the paint. Pure cream could hardly be expected to come from such a place.—Report of U. S. Depart ment of Agriculture.



GRACE FAYNE 2ND'S HOMESTEAD, PURE BRED HOLSTEIN WORLD'S CHAMPION COW, 35.55 LBS. BUTTER IN 7 DAYS

World's Record Butter Cow. e milk of the Holstein cow bearhe name above given was tested utter by a representative of the ell University Experiment Station, a, N. Y., during the last of March, and by the Babcock test showed ld in seven days of 28.44 pounds utter-fat. As such records are lonly stated by the Herd-Book clation this yield of butter-fat is alent to 35.55 pounds commer-butter at 30 per cent fat.

s yield exceeds that of any other ested under the present scientific m in use at experiment stations, are today the only true tests, is a Wonderful example of the

capacity and development of cows of this famous breed of dairy cattle. The previous high record was held by a Holstein cow owned by a Wisconsin breeder, and New York state now claims the champion cow of the world, owned and developed in Syracuse, by Mr. H. A. Moyer.

This cow exhibts to a great degree the characteristic vigor of the Holstein. Her last test was begun when she was six years, 23 days old, and showed 5.42 per cent fat. She was the cham-pion four-year-old of 1907, testing 29.16 pounds in seven days and 119.22 pounds.—F. L. Houghton, Secretary Holstein-Friesian Association of Amer-

Another Infringer Nailed

SHARPLES SEPARATOR CO.

John Deere Plow Co. and Deere & Webber Co.

Sued For Infringement Of DE LAVAL DISC

Cream Separator Patents

For the information and caution of all whom it may concern announcement is made that THE DE LAVAL SEPARATOR CO, has brought suit in the UNITED STATES CIRCUIT COURT against the SHARPLES SEPARATOR CO for infringement of LETTERS PATENT NO. 743,428 by the manufacture and sale of cream separators containing DISC bowl construction covered by the claims of said letters pat-

And that similar suits have been or will be filed as quickly as possible against the JOHN DEERE ILOW CO. and the DEERE & WEB-BER CO., who are jobbing such infringing SHARPLES separators to dealers in the Western States.

Attention is pertinently called in this connection to the recent hypocritical advertising tirade of the SHARPLES concern against DISC separators. We have known for some time that they were getting ready to bring out a DISC machine and thus moving up in line with more modern DE LAVAL imitators and would-be competitors. We have but now, however, been able to obtain one of these new DISC machines and the necessary evidence of infringement. The facts speak for themselves and require no further comment.

In addition to the above suits the DE LAVAL COMPANY now has infringement suits pending against the STANDARD, IOWA, PEER-LESS and CLEVELAND Separator Companies and the Wm. Galloway Co., all covering the manufacture or sale of INFRINGING DISC SEPA-RATORS, which infringement applies equally to machines being made by different ones of these manufacturers and sold under their own and various other names by several "mail order" and other concerns, as well as to EVERY USER of any such infringing separator bought of ANY of these parties.

To avoid any possible misunderstanding and dispel the pretense of some of these concerns that their machines are similar to the DE LAVAL it is proper that we should add that none of the patents sued upon involves the DE LAVAL" SPLIT-WING" FEEDING DEVICE or its combination with the IMPROVED DISC construction utilized in the up-to-date DE LAVAL separators and that none of the machines is in any degree equal in efficiency, all-around practicability and durability to the IMPROVED DE LAVAL machines of today

We have for years patiently stood the appropriation by would-be competitors of abandoned, discarded or patent expired DE LAVAL inventions and types of separator construction, but have now determined to put a stop to the more brazen utilization of LIVE patents.

There are STILL OTHER infringers of DE LAVAL patents who will be held accountable in due course.

THE DE LAVAL SEPARATOR CO.

Drumm&Sacramento SAN FRANCISCO

General Offices: PHILADELPHIA 165 BROADWAY 14 **NEW YORK**

178-177 William St. 107 First St. PORTLAND, ORE.

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WYANDOTTES.

WHITE WYANDOTTE aggs for hatching from choice matings. \$1.50 per 15, \$5 per 100. S. W. ARTZ, Larned, Kan.

RHODE ISLAND REDS

R. C. R. I. REDS exclusively, fine layers; eggs from selected pens \$1.50 for 16 eggs; from utility flock \$4.50 per 100. J. H. CANNON, Preston, Kan.

ROSE AND SINGLE COMB RHODE
ISLAND REDS.

In the last 6 years I have built up a flock
of heavy weight, vigoreus all the year round
laying Reds. Have 200 females in 10 yards,
mated to males scoring 90 to 34, te furnish
eggs for hatching. Prices within the reach
of all wanting fancy or utility steck. Illustrated catalog free. All stock sold I can
spare this spring. spare this spring.

H. A. SIBLEY,
Kansas.

Lawrence,

ROSE AND SINGLE COMB RHODE ISLAND REDS.

Eggs from any mating half price remainder of season. Mixed eggs Rose or Single Comb from several matings, \$1 per setting. Red pullets hatched in midsummer will make winter layers. Write for descriptive mating list. It is free.

H. A. SIBLEY,

Kansas.

BUFF ORPINGTONS.

BUFF ORPINGTONS—Ckis., pens. baby chicks, eggs. More first prizes State Fairs and State Shews than all other breeders. My POULTRY BOOK, containing intermation worth hundreds of dollars to farmers sent for 10 cents. W. H. MAXWELL, B. 95, Tepeka, Kas.

Eggs For Hatching.

FROM FINE STOCK—NONE BETTER, S. C. Buff Orpingtens, extra fine in shape and celor, standard weight. Cook strain. 1st \$2 per 15, \$5 per 50, \$9 per 100; 2d pen, \$1 per 15, \$3 per 50, \$5 per 10?.

per 15, \$3 per 50, \$5 per 10.

S. S. White Orpingtons, the big white beauties. Eggs \$2 per 15, \$5 per 50. All second pen eggs sold.

White Rocks, Fishel strain, and Rose Comb Reds, extra fine. Eggs same price as Buff Orpingtons. Baby chicks 20c and 30 each from any of above.

Plamond Jubilee Orpingtons, a few settings at 35 per 13 in setting lots only. These Diamond Jubilee were the S. E. Wisconsin winners including 1st and 2d hen. Baby chicks 50c each.

MRS LIZZIE B. GRIFFITH,
R. No. 3, Emporia, Kan.

LEGHORNS.

PURE S. C. B. LEGHORN EGGS \$2.75 per 100. FHAS DORR, Osage City, Kan.

SINGLE COMB BROWN LECHORN eggs for \$1, 100 for \$4. H. N. HOLDEMAN, Meade, Kan.

S. C. B. LEGHORN EGGS—1st pen \$1.50 d pen \$1 per setting. Range \$5 per 100. F. 2d pen \$1 per setting. Rai C. WILSON, Galva, Kan.

JOHNSON'S LAYING STRAIN rose comb Brown Leghorns. Eggs 15 for \$1, 30 for \$1.75, 50 for \$2.50, 100 for \$4. Write H. M. JOHNSON, Formoss, Kan.

GALVA POULTRY YARDS—Breeder of R. C. W. Leghorns and White Wyandottes. Seme Leghorn pullets to sell. Eggs in season. JOHN DITCH, Prop., Galva, Kan.

S. C. BUFF LEGHORNS—No steck. Eggs from prize winners. Pen No. 1, \$2 per 15; No. 2, \$1.50 per 15. Incubator lots, \$5 per 100. MIKE KLEIN, Clay Center, Kar.

ROSE COMB BROWN LEGHORNS EXclusively. Farm raised. Eggs per setting 15. \$1; per 59, \$2; per 190, \$3.50. P. MAHON, R. R. 3, Clyde, Cloud Co., Kan.

BUFF COCHINS.

BEST BUFF COCHINS IN KANSAS. This variety exclusively. Gan furnish eggs from prize winning steck at \$1.50 and \$2 per sitting. J. C. BAUGHMAN, Topeka, Kan.

LIGHT BRAHMAS.

LIGHT BRAHMA EGGS
from birds scoring \$3 to \$4 by Judge Rhodes,
\$1.50 per 15, large flock \$1 per 15, \$4 per
100. Baby chicks each month \$2 per dozen.
MRS. A. P. WOOLVERTON,
R. 8, Topeka, Kansas.

PLYMOUTH ROCKS.

BARRED ROCKS—31 premiums, June and July bargains. Eggs 15, \$1; 60, \$3.25; 00, \$5. Chicks 15c each. Breeders for MRS. D. M. GILLESPIE, Clay Center, Kan.

BREEDERS.

Our White Rock breeders are for sale at right prices.

SMITH & KNOPF, Mayetta, Kan. Route 2,

BARRED ROCK BARGAINS.

After May 1 eggs from my high scoring pens only \$1.50 per 15. Four settings for \$5. Range eggs 75c per 15.

MRS. CHAS. OSBORN, Member A. P. A. Eurek

Eureka, Kansas.

PURE BRED POULTRY.

EGGS FROM PURE BRED POULTRY. S. C. W. Leghorn and B. P. Rocks. Birds scoring \$5. Eggs \$1 per 15 or \$5 per 106 the rest of the season at the ELNORA FARM, Centralia, Kan. D. Williams, Prop.

SUNNY CREST.
Stock, fruit and poultry farm. Eggs to sell from M. B. turkeys, R. I. Reds and Leghorns. Registered Jersey calves and Foland China hogs for sale. Write me. MRS. WM. BRITE, Pierce City, Mo.

POULTRY

The hatching season of 1909 will soon be over and it will then be time to dispose of most of the breeding stock; for with the high price of feed it will not pay to keep the hens after they have quit laying.

After you have disposed of your old stock you will have more room and more time to devote to your growing stock and these require lots of care and attention just now. Keep them growing and thriving by feeding them all they will eat and keep them free from lice and vermin so that they may grow without any check.

We find that growing chicks suffer more from lack of animal food than any other kind of food. They may have plenty of grain, still without animal food, they do not thrive. Fresh ground bone or meat is the best thing you can feed them. Beef scraps or dried blood the next best meat ration. Lots of skim-milk will help towards a meat diet.

The price of poultry was never in our recollection so high as it is at the present time. Sixteen cents per pound is the retail price for dressed chickens in Topeka. Now is the time to dispose of your surplus stock, after the hens have quit laying. Don't keep a lot of dead-keads on hand to waste what profit you have made on eggs. Let the butcher have them.

Egg Production of the Daughters of "200-Egg" Hens.

There has just been issued by the Maine Experiment Station bulletin 166, having the title "Data on the Inheritance or Fecundity Obtained from the Records of Egg Production of the Daughters of '200-Egg Hens.'" This bulletin sets forth the results of an experiment designed to test the plain question of fact as to whether the daughters of "200-egg" hens were or were not better layers than the daughters of hens which were not such heavy producers. The results of the experiment were in brief as follows:

The daughters of "200-egg" hens were in this experiment very much inferior to their mothers in average egg production. This is particularly true of winter egg production.

This experiment gives no evidence that there is a sensible correlation between mother and daughter in respect to egg production, or that egg producing ability is sensibly inherited. A relatively high producing mother was as likely as not to have relatively poor producing daughters in this experi-

In this experiment the daughters of "200-egg" hens were not such high egg producers as pullets whose mothers' egg records fell in the 150-200-egg class. The daughters of the "200-egg" hens were most inferior, proportion-ately, to the "unregistered" pullets in respect to winter egg production.

Does It Pay to Hatch Summer Chicks? This question has been asked me so much of late. As for myself I very seldom hatch many summer chicks as time is so taken up at that season

of the year that I could not properly attend to them. I think we might just as well not hatch little chicks if we cannot give them the best of care. This summer the greater part of my

chicks will be hatched during June and July, the reason for this being that the Buff and White Orpingtons produce finer plumage when hatched later in the season.

Will Schadt, secretary of the National Buff Orpington Club, told me this two seasons ago, and since observation has proved that a more soft, even shade of buff is produced during June and July batching, also about two-thirds of the batches are pullets, while earlier in the season it is just the reverse. I have also noticed that white varieties, not only White Orningtons alone but White Rocks as well. Some say they do not get so large. But I have the prettiest White Rock cock bird which is entirely free from brass that was hatched in June

and his weight is 10 pounds and those from the whole flock have such a glossy pure white color that I have concluded to get the true color in white and buff chicks is to hatch in late spring and early summer. Of course, this does not mean that you can get fine colored birds from in-ferior stock, but that we can produce that even, mellow shade which win in the show room. I am asked the cause of this. I am sure I cannot say, but it is my belief that the chicks grow quicker and are not stunted by cold, chilly weather and frosty nights which cause them to huddle together until their plumage is soiled and broken and when once so it seems never to thoroughly recover. One can see by a little observation that on a cold, frosty night the little chicks keep crowding and are restless all night and part of the day, while on the other hand on a warm night we will see them all spread out, not touching each other if there is room, even the day-old chick is out from under the hen happy and content.

Then another reason is nature. We can notice a plant that is grown in the house early in the spring and just set outdoors when the weather will permit. How much more hardy the plants grow when they can be out all of the time! I think it a poor rule that will not

work the same wonders in poultrydom. Those especially who have the buff and white chickens try a few summer chicks, at least, and see if you don't find this true. I do not know if the same rule works in other colors, but I expect to try and put some of them from both early and late hatches in the fair and see which come out victorious in the color scheme when they get in the hands of the judge. If anyone else has had any experience in this line I would like to hear what they have to say.—Mrs. Lizzie B. Griffith, Emporia, Kan.

Can you tell me why pure bred

Bronze turkėys do not breed in color? Last year out of 80 ba all were nicely marked. This from the same breeding stock of the young are pure white.—A zled Reader, Ball, Kan.

Ans.—All varieties of poultry sionally produce chicks that an color which are called "sports."
White Plymouth Rocks came from Barred Rocks and the White Whi Barred Rocks and the White W dottes are sports of the Silver W dottes. White turkeys are undown ly sports of the Bronze, Buff or turkeys. Sometimes a white will not appear for years, and again they come in droves, all sudden. Your white sports w doubtless be appreciated by bree of White Holland turkeys to into new blood into their flocks and o to bring a good price. If not disport that way, they should be see the butcher's as soon as large em

No one man knows it all; to where the agricultural paper of into profitable usefulness with it umns freighted with the combine vestigations and experiences of

J. C. Kendall, professor of dain at Kansas State Agricultural Col is in Jerseyville and Vandalia, in attend sales of pure bred Jersey with the view of purchasing some mals for the college Jersey herd last legislature made appropria by which it is possible for Prof Kendall to establish a dairy he each of the leading breeds of

A peculiar poison used by gr known as "drab" has just been if fied in England by J. Myers, as a carbonate, known to mineralogis witherite. An old practice of gy was to poison pigs and then et flesh, and Prof. Sherrington cond that if the poison was barium at ate, the flesh would be safe to et vided all parts coming in contact the entrails were carefully wash the entrails were carefully washe

Bee Supplies

Everything that you will need; such as Hives, Section Boxes, Comb Foundation Starter, Smokers, Bee Veils, etc., these goods kept in stock for prompt shipment. Send for catalog.

TOPEKA SUPPLY HOUSE,
Topeka, Kansas,

WHITE PLYMOUTH ROCKS EXCLUSIVE For seventeen years I have bred White Plymouth Rocks exclusively have some fine specimens of the breed. I refer to Judge C. H. Rhodes Judge J. J. Atherton as to the quality of my stock. I sell eggs at sonable prices and these I ship are from the same fowls that I hatch in myself. Figgs \$2 per 15. 55 per 45 and I pay expression to any expression. myself. Eggs \$2 per 15, \$5 per 45, and I pay expressage to any express fice in the United States. THOMAS OWEN, Sta. B., Topeka, Kansas.

CORRUGATED INGOT IRON CULVERTS.

The Sulphuric Acid tests adopted by the American Society for Testing Mater shows the quality Ingot Iron 99.94 per cent pure, and when put to the acid in 6 parison with any galvanized metal on the market will show to be 90 per cent ter. Ask for descriptive literature and prices. We pay the freight.

THE ROAD SUPPLY & METAL CO.,

FREE! The Latest Craze! For Children and Adults **Given Absolutely** FREE For Solving This Puzzle

There are ten faces in this picture. Can you find seven of them?

Directions—Trace out the lines of each face heavily with a lead pencil of the persons sending correct solutions to this greates sheet of paper. Free to the persons sending correct solutions to this will give absolutely free of charge the latest Parisian craze, a Mocking girl which will furnish amusement and pleasure to both children and adult a dit orders given to the amount of \$40, good as part payment on purchase of the property one answer from a family will be counted. Winners will be not said to the property of the plainly written.
E. B. GUILD MUSIC CO., 722 Kansas Ave., Topeka, Kan-

CHILDREN MEN'S

By Geraldine Bonner

Copyright 1906 by the Bobbs-Merrill Company,

inued from last week)
hing her sisters bent over their
the heat and burden of their
ork she felt a deep, heartfelt
itude that she had escaped from
domestic sphere in whihe they
nent. Whether Pearl's summer
terrimmed with pink or blue
en a question which she had
thy of serious consideration,
had traveled from the world of
d could not have been more
d could not have been more
her than by the complete inte now felt to Pearl, her hat,
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her than by the complete inhe now felt to Pearl, her hat,
mings
come prepared to surprise her
to shake out of them, by her
to an an an an an an an
it would ease her present wrath
he was too overwrought to be
r to approach the point by preidations. Thrown back in the
sir in the room, her head so
int ins he room, her head so
int its back that her hat was
not over her forehead, she told
meeting with Mrs. Ryan, and
he she had received.

An an and received.

An ann hor Hazel expressed the
tonishment at this insult that
anticipated. In fact, they took
anquility which savored of inFor the moment, she forgot that
nothing of her reason for exRyan to recognize her, and to
g indignation was added a last
use of disappointment. The sight
olding the leghorn hat off at
hand studying it with a prerowed eye, was even more irriher remark, made mumblingly
he pins in her mouth:
we why you should feel so bad
I should think you'd have got
to it by this time. She's been
for over two years now."
think that makes it any betherny ha a belligerent tone, not
head, but shifting her eyes to
yat Hazel from under her proroll. "Do you think you'd get
Josh's mother cut you on the
rent, who had left behind her a

compass the idea of Josh's his had left behind her a unique meekness, cutting hazel laugh and she had down and take the pins before she could answer. Her doing it for over two have got sort of broken said. "What makes you le of a sudden?" aren't just the same as the last two years," said laybe there's a reason for g to me."

to me."
the effect that the vicred. Her sisters paused
ooked at her. There had
when Hannah had felt
is fine marriage, and she
marr woman with sober lasses pushed down to-

nose. Hazel. "What reason? een trying to make up?" ether you'd call it that

y changed between you e asked gravely. the shears and laid her She felt the coming

ss you'd say they have,"
letting every word make
e's trying to buy me off
I suppose you'd call

to surprise her sisters, had the satisfaction of For a moment they amazed to speak, even seented difficulties, being pred—after the way of the particularly difficulty up. It was Hazel who

leave Dominick? Give

"She's made me two husband, wants me to ve gone for a year, ask desertion."
"mured Hannah in a

from the state of the state of

that's arways been the ine doesn't like me, she me. She tried to freeze t speaking to me, and the along the best way ik's salary. Now, she's 't work, and she's gone. She's a woman of reda the way blocked in ries another."

fered you money to leave Hannah. "Said she'd ou'd desert him and let

"returned her sister, in the one, tapning with her finger-tips of the chair. "That's the flatshe's made me twice now."
uch did she offer you?" said

a crucial question. Berny knew ace and sat up, pushing back her hat,

dred thousand dollars," she said

is a second pause which seemed ith aston'shment, as with elecation as the second pause which seemed ith aston'shment, as with elecation as fasters, their hands fallen as fastered their eyes on the a stare of glassy amaze. The stare of glassy amaze and thousand dollars!" gasped hay—why—Bed, almost trembling in the exter the stunned incredulity. The stunned incredulity word pronounced with slow, belief. "Oh. it can't be that

t much now," said Berny, her centuated to the point of non-raise it want I can make them almost to a quarter of a milhundred and fifty thousand dolomuch when you've got millions at her site to the Ryans?" slance, feeling that it had been to tell them. Hannah's face

was a pale, uninteresting mask of shocked surprise—the kind of face with which one would imagine Hannah's greeting such intelligence. But through the astonishment of Hazel's a close and intimate understanding of the possibilities of the situation, an eagerness of rising respect for it and for the recipient of such honors, was discernible and appealed to Berny's vanity and assuaged her more uncomfortable sensations.

"You could get a quarter of a million?" Hazel persisted. "How do you know that?" Berny looked at her with disdain which was softened by a slight, induigent smile.

"My dear, if they want it bad enough to offer one hundred thousand, they want it bad enough to offer two. The money is nothing to them, and Im a good deal. I shouldn't be surprised if I could get more. She though of Bill Cannon's participation in the matter, and let an expression of sly, knowing mysteriousness cross her face. But Bill Cannon's participation was a fact she did not intend to mention. He was a part of the story that she had decided to suppress.

"But two hundred and fifty thousand dol-

of the story that she had decided to suppress.

"But two hundred and fifty thousand dolaries and Hasel. "Why It's a fortue! The interest on it alone would make you rich. You could go to Europe. You could have a house on Pacific avenue. Just fancy! And three years age you were working for twenty a week in the Merchants and Mechanics Trust Company. Do you remember when they agreed to give you that you thought you were on velvet? Twenty dollars a week! That looks pretty small now, deem't if. That looks pretty small now, deem't if. That looks pretty small now. Accent! That looks pretty small now. Accent! That looks pretty small now. Accent! That looks pretty small now and sord! Alone and exhlirated excitement, now suddenly fell. Conscious that she had exhlibted a condition of mind that was low and sord!d, she hastily sought to obliverate the effect of her words by saying marply. I knew she wasn't going to accept. I never had such an idea. I'd be the first one to turn it down. I was just thinking what she could do if she did."

"Oh, there's any amount of things I could do," said Berny. "They want me to go abroad and live there. That was"—she was going to say "one of the conditions," but this, too, she decided to suppress, and said instead—"one of the things they suggested. They told me the lincome of the money thinks, too, she decided to suppress, and said instead—"one of the things they suggested. They told me the lincome of the money while I was deserting Dominick—I was to go to Chicago, or New York, and desert him that way—I'd have seven thousand dollars for my expenses. They weren't mean about it, I'll say that much for them."

"And then laying it all out like that!" said Hannah. "It's just the most scandolous thing I've ever heard of. I've never had much opinion of Kyra Ryan, but I really did bellowed the carried her up to her sisters and on to this point. Dominick's part of the story was one of the subjects upon which she had decided to lit her remarks be as notes about the text, and expurgated notes and the s

thought of losing me."

They looked at her without speaking, their faces curiously different in expression from what they had been after her first confessions. All excitement had gone from them. They looked more wounded and hurt than she did. They were women, dashed and mortified, by a piece of news that had abashed them in its admitted failure and mumiliation of another woman.

"I—I—can't believe it," faitered Hannah. "Dominick's always so kind, so attentive, so—"

She came to a stop, checked by an illuminating memory of the Sundays on which Dominick now never came to dinner, of his absence from their excursions to the park, of his mysterious mid-winter holiday to the Sierra

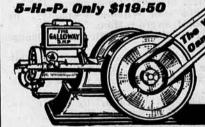
of his mysterious mid-winter holiday to the Slerra.

"Have you had a row?" said Hazel. "Everybody has them some time and then you make up again, and it's just the same as it was before. Fighting with your husband's different from other fighting. It doesn't matter much, or last."

Berny looked down at the parasol tip. Her lips suddenly began to quiver, and tears, the rare burning tears of her kind, pricked into her eyes.

"We haven't lived together for over eight months," she said.

The silence that greeted this remark was



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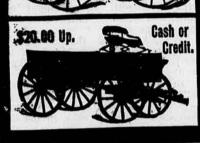
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OENTURY MFG. 00., Dept. 462 East St. Louis, Ilia.



You can make rain in the Arkansas Valley

by opening irrigation ditch.

Water when wanted makes sugar beets that can't be beat. Alfalfa and fruit, too

I am employed by the Santa Fe Railway to help settle up the vast territory along its lines in the Southwest.

I am an optimist about that section, but am not a partisan with respect to any particular locality therein. It's my business and my wish to tell the truth about all of them.

There is a valley in western Kansas and eastern Colorado 200 miles long and seven miles wide, through which flows the Arkansas river on its way from the Colorado Rockies to the Mississippi.

It is bordered by upland prairies stretching many miles north and south.

The land in the Arkansas Valley proper is all privately owned. The owners will sell, many of them, for a reasonable price, in order to cut down their holdings. You don't neer to occupy a big tract, because intensive farming is now profitable under irrigation.

On the uplands, where "dry farming" can be practiced successfully, are millions of acres of unoccupied Government land, which can be homesteaded. If you are interested in such lands, will be glad to post you further. They require only a small investment per acre and rapidly increase in value when brought under

If you plan to become a homesteader, hurry up, because 365,000 acres were taken up in three years, and first-comers are getting the choicest lands.

Most of the new settlers buy small tracts "under the ditch" in the irrigable area of the valley, as it means sure crops and good water rights. There are 700 miles of canals fed by immense reservoirs. The price of land varies according to proximity to town and beet-sugar factory.

The sugar beet is a ready-money crop. Six factories in Colorado and one in the Kansas section stand ready to take the product of all the acreage the farmers will put in, assuring a return which the farmer can count on. \$3,000,000 were paid out in this valley for beets in one year alone.

Alfalfa is cut four or five times a season. It is a better food for live stock than corn and is the important crop here.

Fruit comes next. You know how popular Rocky Ford cantaloupes are — well, they are raised in the Colorado end of the valley. So many watermelons are produced that Watermelon Day, in the Fall, vies with the Fourth of July. Growing melon, squash and cucumbers for their seed is very profitable.

Cut out this advertisement and mail it to me with your name and full address. I will mail you illustrated land folders which tell the story in detail and send you our homeseekers' monthly, The Earth, six months free, Questions promptly answered.

C. L. SEAGRAVES, Gen. Colonization Agt., A. T. & S. F. Ry. System, 1170-L Railway Exchange, Chicago.

the heaviest of all the silences "Why didn't you tell us before?" said Hazel, in a low, awed voice.

For a moment, Berny could not answer. She was ashamed and angry at the unexpected emotion which made it impossible for her to command her voice, and made things shine before her eyes, brokenly, as though crystal. She was afraid her sisters would think she was fond of Dominick, or would guess the real source of the trouble.

"I was afraid something was wrong," said Hannah, mechanically picking up her shears, her face pale and furrowed with new anx-

The concern in her tone soothed Berny. It was something not only to have astonished her family, but to have disturbed their peace by a forced participation in her woes. It

by a forced participation in her woes. It had been enraging to think of them light-heartedly going their way while she struggled under such a load of care.

"It was all right till last autumn," she said in a stiffed voice, "and then it all got wrong—and—and—now it's all gone to pieces."

"But what made Dominick change?" said Hazel, with avid, anxious eagerness. "Everything was happy and peaceful a year ago. What got hold of him to change him?"

(to be continued)

HOME CIRCLE



A Boy's Mother.

My mother she's so good to me
Ef I was good as I could be,
I couldn't be as good—no, sir!

Can't any boy be as good as her!

She loves me when I'm glad or sad; She loves me when I'm good or bad; An' what's a funniest thing, she says She loves me when she punishes.

I don't like her to punish me,— That don't hurt,—but it hurts to see Her cryin',—then I cry; an' nen We both cry, an' be good again.

She loves me when she cuts and sews My little cloak an' Sunday clothes; An' when Pa comes home to tea, She loves him most as much as me.

She laughs an' tells him all I said,
An' grabs me up an' pats my head;
An' I hug her an' hug my Pa
An' love him purt' nigh much as Ma.
—James Whitcomb Riley.

OUR NATIONAL FRUIT.

How grand are the scenes when sweet spring is unfolding

And loveliest pictures are opened to view, and shining in splendor for eyes then beholding The forests and fields robes of beauty re-Then warmly we welcome the songsters of

morning singing glad praises at advent of While

with spring
With buds and blight blossoms the orchards
adorning
Awakening our hopes of harvest to bring
The red rosy apple, the bright golden apple,
The ripe luscious apple, of all fruit the
king.

The fading of bloom when fulfilling its mission
Gives speed to our toll in the light of good cheer Inspiring our zeal for a fullest fruition For picking in days when the harvest is

mear.
We gather the fruit with an exquisite pleasure.
In tasting its flavors how closely we cling, And sending to others rich gains of our treasure
We echo the chorus and gleefully siar.
The red rosy apple, the bright golder apple the ripe luscious apple of all fruit the king.

We choose the sweet bloom for the flower of our nation.
To reign with our banner wherever unfurled and ruling o'er homes in the power of its station
The light of its blessings will shine through the world.
And rising in heights of the grandest promotion.

motion.

The sway of its sceptre will speed on the wing, Till swelling all o'er land, and far o'er the ocean, In strains of sweet music its cadence shall

ring,
The red rosy apple, the bright golden apple,
The ripe luscious apple, of all fruit the
king.

—James Handly, Quincy, Ill., Dedicated to
National Apple Show, Spokane, Wash.

A teaspoonful of mustard in a little warm water will remove the odor of fish from the hands and also from the vessels in which fish has been cooked.

A small box of unslaked lime kept in the pantry will absorb all impurities and keep the air beautifully dry and sweet. The lime must be changed every two or three weeks.

To bleach muslin place a boilerful of deep blue water on the stove, and unrolling the muslin, put it in and let come to a steady boil. Remove from boiler without wringing, and hang on line to drip dry in full sunlight. When dry, iron and depend on the first washing to make it a clear white, or wash again in usual way before using.

A Good Scour.

One pound borax, 6 bars Lenox pap. One pound sal-soda, 2 quarts Cut the soap into small pieces. Combine all ingredients and cook until the mixture is the consistency of a thick syrup. Pour into a jar. When cold it will be jelly like in form.

What to Read.

Oftentimes a boy does not know what to read. He wants to read what will make him wiser and more of a man, and at the same time he wants something entertaining. The follow-ing list recommended by Doctor Cooper in the Circle Magazine, contains some books that are just what a boy wants:

Stevenson's "Treasure Island." Mark Twain's "Tom Sawyer" and "Huckleberry Finn." "Stalkey and Co.," by Rudyard Kip-

ling.
"Ivanhoe," by Sir Walter Scott.
Cooper's "The Pathfinder."
"The Count of Monte Cristo" and
"The Three Guardsmen," by Alexander Dumas.

"The Moonstone," by Wilkie Collins. "The Adventures of Sherlock Holmes," by Conan Doyle.

Mrs. Stowe's "Uncle Tom's Cabin."
"The Man Without a Country." by

The Man Without a Country," by Edward Everett Hale.

"The Mill on the Floss," by George Eliot. The Last Days of Pompeii," by Bul-

wer Lytton. "Westward Ho!" by Charles Kings-"The Marble Faun," by Hawthorne.

"Ben Hur," by Lew Wallace. Longfellow's poems. Tennyson's "Idyls of the King." Shakespeare.

Finding the Secretary.

A story is told of a western farmer who came to Washington to lay some project before the secretary of agriculture but he was afraid that he could not approach the secretary on account of his exalted position. He wandered aimlessly through the corridors of the department building for some time and coming across a pleasant-faced, white-haired old man, he confided to him the fact that he wished to see the secretary

"Come right in," said the new-found friend. "Come in and sit down," leadrriend. "Come in and sit down," leading him through an open door into a pleasant office room. "What did you want to see the secretary about?"

Thus invited the gentleman from the West proceeded to unfold his plan, much to the intenset of his heaven.

much to the interest of his hearer, who interrupted him now and then with intelligent and well-put questions, and when he finished said with some enthusiasm:

'Why, I believe that is just the thing the department has been looking for I am sure it could not do bet-

"Do you think," asked the man, a little tremulously, "I could talk it over with the secretary?" The gray-haired man threw himself back in his chair gave a hearty laugh.

"Why, I am the secretary," he said, and so another devoted friend and loyal supporter was added to his list.

What Does the Parent Expect of the Teacher?

We can only advocate a harmonious cooperation as the most imperative need between teacher, pupil and parent to begin with. What the parent expects of the teacher, is a subject which appeals to most of us as having no boundaries, but I shall try and pre sent only those ideas which I think are of general importance to all pa-rents who send their children away from their care for a period of say, 160 days. In the formative period of a child's life, personal association is a great force, greater than anything else in school work. The personal influence of a teacher goes a great ways in determining the character of a boy's or girl's life, and from this point of view let us have no mawkish sentimentality in the school room, but rather let us expect the teacher to give to our children that thoughtful, inspiring, courteous association which makes the education of the teacher attractive. Let any of us set our memory at work today to find some influence that has given a happy trend to our lives and we will be sure to recall some teacher away back in early school days whose influence was so warm and gentle that we can feel it yet, and again that same memory will bring to us moments of regret, when we recall the unjust criticism given us by that teacher who insisted upon forcing facts to conform with convictions instead of allowing their convictions to conform with the facts. The precepts of wisdom and lessons taught by the teacher while memory

lasts, will in memory live. I believe most parents wish their children taught order, system, and punctuality, which will give them self reliance and respect and which is the solid foundation for all success in life, for we must all learn that the straight line in business, as in geometery, is the shortest. Our children should find no time during study hours to write notes or play, and yet I am not an advocate of overwork in the school

SHI



8473—A Pleasing Little Model Girls' Dress.

The present day styles are especially attractive for children, and what is more to the point, they are practical and suitable. For a dress made after the simple style here illustrated, lawn, dimity, batiste, gingham or cashmere may be used. The dress proper is cut with a square neck opering, and worn over a guimpe, which may be omitted for warm weather. It may be made without the scalloped edge. The pattern is cut in 3 sizes—2-4-6 years. A pattern of this illustration will be sent to any address upon receipt of 10c in stamps or silver.



Hut

8486—Comfort, Neatness and Ladles Shirt Waist with the Ladles to the Ladles over front and to the while the front are tucked to the fronts lap slightly at the sleeve is a one piece model find upturned cuff. The pattern of this liustra sizes—32-34-36-38-40-42 inches the Ladles of the Ladles with th

8461—Jadies' Thirteen Ges
No matter how simple or six
wardrobe may be, the practic
street wear is always necessary,
here shown is sheath fitting a
made with or without the
Among the materials suited to
ment, are smooth faced clota,
voile, linen, veilings, and supples
pattern is cut in 5 sizes—2:
inches waist measure. A patt
illustration will be mailed to a
upon receipt of 10c in stamps or



8455—A Simple Desirable Blouse Suit.
Boys Suit with Knickerbockers. The simple lines of this model will appeal to every home dressmaker. The design is suitable for wash or woolen fabrics. It is double breasted and the fulness of the sleeves at the wrist is disposed of in tucks that simulate box-plaits. The pattern is cut in 3 sizes—2-4-and 6 years. This pattern sent to any address upon receipt of 10c in stamps or silver.



EACH PATTERN 10 CENTS.

The Kansas Farmer, Topeka, Kan.

Please find enclosed cents, for which send patterns as it Size Number Name State

room. I believe our present educational system has many good features, but it tries to accomplish too much. Parents often expect too much of a teacher; it reminds me of these lines: "Hurry the baby as fast as you can, hurry and worry him, make him a man, off with his baby clothes, get him in pants, feed him on brain foods and make him advance. Fill his poor head full of figures and facts. Keep on jam-ming them in till it cracks. Once boys grew up at a rational rate, now develop a man while you wait."

I think it best not to crowd unneces-

sary ideas into the small scholar's head, for while it is a good thing to know a great deal, it is better to make

good use of what we do know Burton writes that "knot not found in a feather bed." pupils must earn their edul work. Victories that are decheap. Those only are work which come as a result of ing.

And when our children school room and life open them in all its full meaning. sons unwritten, unnumbered, it will be a source of great st to that teacher who has worked in the school room seed her hands have sown rich, abundant harvest.—Ver Bliss.

THE STATE OF THE STATE OF

Kansas State Fair

HUTCHINSON, SEPTEMBER 11-12-13-14-15-16-17,'09

"I desire to announce to the stockmen that the live stock classification and premiums will be practically the same as last year, with the exception of about \$750 added to the premiums on Shorthorns mostly do to the premiums on Shorthorns mostly for state exhibitors which is to encourage the Shorthorn breeders of Kansas, and a better classification and more money will be given Polled Durhams. In the swine disjoint a full classification will be given this year to Hampshire hogs, also Chester twites."

be given full classifier to year to Hampshire hogs, whites."
Whites."
\$35,000 in purses and premiums. Seven\$35,000 in purses unrivaled attractions, teen grand divisions. Unrivaled attractions, teen grand divisions. Unrivaled attractions, teen grand for the people, by the people. For The fair for the people, by the people. For A. L. SPONSLER,

Kansas.



Shoes.

Upon receipt of 25 cents, we will mail postpaid, 3 prs. of our guaranteed Strong Atlas Porpolse Shoe Laces.

We are the Pioneer Manufacturers of Porpolse Shoe Laces in America.

THE AMERICAN PORPOISE

LACE CO.,

267 Mt. Pleasant Ave., Newark, N. J.



LAWN FENCE Many Styles. Sold on trial at wholesale prices. Save 20 to 30 per cent. Hinstrated Catalogue free. Write today. KITSELMAN BROS. Box399 Muncle, Indiana

our wonderful new Daisy SELF-THREAD-i, self-feeding, one-horse hay press. It is only one on the market on which one can do all the work. This first succesself-threading device—greatest time rever. Condenser and open bars on bale

3-STROKE SELF-FEED HAY PRESS.



TO SETTLERS ON MOFFAT ROAD

To secure good farmers, we tell you how to locate 160 acres of fine government land in Routt County on Moffat Road, Denver, Northwestern & Pacific Railway. Big crops. pure water, good soil, fine climate and markets. We have no land to sell, its absolutely free from the Government. Law allows you to return home for 6 months after filing. Write for free book, maps and full information that tells how to get this land free. Address

W. F. JONES, General Traffic Manager To Majestic Bidg., Denver, Colo.

20,0% in one huge tract. Open this fall in Dakotas. Second entries given thousands. Soil rich, railroads convenient, Booklet just issued sent your address for three cents in stamps.

INFORMATION BUREAU

43 Gilfillan Block, St. Paul, Minn.

DAISY FLY KILLER tracts and kills all files.



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Lasts all season,
Made of netal, cannot
spill or tip over, will not
soil or injure anything.
Guaranteed effective.
Of all dealers or sent
prepaid for 20 cents. HAROLD SOMERS 150 DeKalb Ave. Brooklyn, N. Y.

SCOTCH COLLIES of the best breeding, have the intelligence of a human. For particulars, address DEER LAKE PARK, SEVERY, KAN.



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MEN WANTED

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per menth. We have rallroad wires giving
actual apractical
school. Write for
Hustrated catalog.
Rallway and Telegraph Se. 2,
Desk I. Topeka, Kansas.

Failure after long perseverance is much grander than never to have a striving good enough to be called a failure George Eliot.

The Mother's Room.

It should be felt throughout the house that this room is no common property, it is mother's alone. Little feet may patter "upstairs and downstairs" if they like, but not "in my lady's chamber" unless mother says This may seem rather formal for a close-hearted family, yet children should early be taught the law of mine and thine; it is an essential of good breeding. Moreover, all within the precincts of this room must be held sacred, else its objects will come to naught.

Its chief object is mother's privacy, for her rest and her daily prayers. It should also be used as a tribunal, since a little talk with mother in her own room will be considered quite a solemn thing. And on Sunday afternoons, if the stories and heart to heart talks in honor of the day be held here, their fragrance will be doubly sweet. Let this room be so much a part of your very self that anyone who sees it might guess to whom it belongs. If possible, its windows should command a pretty view, then keep up the blinds and let the view in. A frame containing a photograph of each child, a gilded baby shoe with a pin cushion inside, and many other dainty and fitting accessories will suggest themselves.

It would never do to tumble the bed for your day-time rest, so let there be a cot, crude and inexpensive, perhaps, but hidden by a pretty ruffle and graced by the pillows which will be your daughter's delight to furnish as Christmas and birthday surprises. And the sons, especially if taught manual training at school, can present you with little furnishings of which anyone might be proud.

Yet, of course, it is less the value of the gifts than the thoughful love of the givers which brings toy to the mother's heart. One of the rarest pleasures of my own childhood was in laboring over my annual Christmas "crazy cushion" for mother's rocker. These cushions were wonderfully and fearfully made and, when finished, any shape but square. Yet mother always used them and had they been laughed et, it would have broken my heart .-The May Housekeeper.

Housekeeping.

A writer from the Colorado Agricultural College has some helpful words to say to girls:

The art of housekeeping is one which deserves special mention.

In Germany the daughters of the finest families are sent to someone who is competent, and who teaches them the art of housewifery; and a girl would be ashamed to be married if she was not a good housekeeper.

Housekeeping ranks as a profession as truly as any other occupation. There is a far greater demand for

women who understand housekeeping than for those who are advanced in the art of dancing.

Domestic economy should be stud-

ied by all women.

Clean and sanitary houses, healthful meals, system in housework, and an attractive and cheerful home can do more to promote good health than any

physician. I want to impress upon the girls that housework is fine, honorable work, and that they should know how to do it in the easiest way, so as to make it a real pleasure.—Mary F. Rausch, Colorado Agricultural College, Fort Collins.

If ants are troublesome in the pantry, a free use of insect powder, also sold as "Pyrethrum" and "Persian in-sect powder," upon the shelves and in the run ways of the ants will usually be effectual in cleaning them out. As this powder is not poisonous to people it may be used in abundance.

Result of Tuberculn Test for Dairy Cows.

The first annual report of D. M. Wilson, Dairy Commissioner for Kansas, gives the results of the tuberculin test as having been applied to 2,000 dairy cows engaged in supplying the cities of the state with milk.

The percentage of tuberculous cows is 8.63 per cent. The per cent of tuberculous cattle in individual herds is very marked, ranging from health to 70 per cent. This amount was found only in one herd. The next highest only in one herd. The next highest was 36 per cent. These were extreme cases. A number of herds averaged 12 per cent; while it is frequently found that not more than 3 to 4 per

cent react where conditions are fairly sanitary. The percentage of reacting cows thus far bears a close relation to the insanitary condition of the dairies. In the herd where 70 per cent were found to be tuberculous, the dairyman made a practise of buying newly freshened cows to replace cows that were being dried; the conditions of the barn were such as would encourage the spread of disease; the drainage was bad, as there was sufficient liquid manure underneath the floor of the stable that the liquid would protude through the floor as the animals were being driven in to be milked; the stable was very dark, no provisions having been made for light.

With the herd having 36 per cent of tuberculous animals the conditions were also very insanitary, with no pro-visions for light or ventilation. In some of the dairies wherein no diseased cattle were found the sanitary conditions were found to be above the average. This is one of the strongest arguments for the great need of improved sanitary conditions, more light and better ventilation.

Two recent issues of Kansas Farm-ER contained plates made from photographs of barns in which herds showing a large number of diseased animals were kept. Take another look at the plates and reread the above and you will decide that sanitary barns are a necessity.

CANNING VEGETABLES IN THE HOME.

> (Continued from page 2.) CONTAINERS FOR STERILIZING.

The writer uses a tin clothes boiler with a false bottom made of wire netting cut to fit (fig. 5). The netting is made of medium-sized galvanized wire (No. 16) with one-half inch mesh. A false bottom is absolutely necessary, as the jars will break if set flat upon the bottom of the boiler.

Send for a Copy of Our Special Bulletin

FOR MAIL ORDER CUSTOMERS

Every page packed with news of special value in summer goods-dry goods, carpets and curtains.

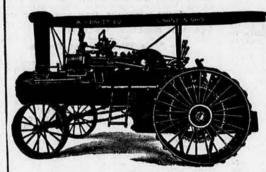
Kansas Mail Order Service The Mills Co., Topeka.



I.AWRENCE BUSINESS COLLEGE, Law-rence, Kan. 40th year. Our big catalog ex-plains everything. Sent free. Address 1400 Mass. St.

Narrow strips of wood, straw, or almost anything of this nature may be used for the purpose, but the wire gauze is clean and convenient.

There are several varieties of patent steamers or steam cookers in common use. These have either one or two doors and hold a dozen or more quart jars. They ahe ideal for canning, but they are somewhat expensive and can be easily dis-pensed with. A common ham boiler or clothes boiler with a tight-fitting cover will answer every purpose.



WE ARE AGENTS FOR THE

Famous Baker Plow and Thrasher Engines

also manufacturers of the PRAIRIE QUEEN SEPARA-TOR. We have a full line of engines and separators hard for your inspec Write for catalog inspection.

THE PRAIRIE QUEEN MFG. CJ.

Newton



A Real Potato Digger.

Light Draught Potato Harvester A digger that digs where others fail.

Guaranteed to work under all kinds of field conditions with only two horses. Better write for our circulars and field scene pictures.

Marinette, Wis. STEVENS MFG. CO., Builders of High Grade Potato Machinery. Transfer and distributing points in every potato raising section.

The-

Kansas Ave. and Third St., Topeka. A BANK FOR FARMERS.

One of the strong, conservative banks of Topeka, and a farmers' bank in a real sense. Four out of seven of the directors of the German-American Bank are active farmers. We are open on Saturday until 6 p. m. for the accommodation of farmer patrons. We do a general banking business. SPECIAL ATTENTION TO FARM LOAMS.

Interest Paid on Time Deposits and on Savings Accounts

You will find the German-American Bank a pleasant bank to do business with, combining as liberal a policy as possible in dealing with customers consistent with conservative management. The business of Kansas Farmer readers is respectfully solicited. COME AND GET ACQUAINTED.

SPECIAL RATE TO JANUARY 1, 1910.

NEW SUBSCRIBERS can get KANSAS FARMER from the date the order is received until January 1 next, for only 50 cents. Orders at this special rate can be sent direct to Kansas Farmer, Topeka, Kan., or to any agent. Subscriptions will be started the week they are received. Order at once the sooner your order is received the more you get for your money. Send stamps if handiest.

KANSAS FARMER ADVERTISERS GFT RESULTS

PUBLISHERS' NEWS

The Chanute Refining Company, Chanute, Kan., offers to our readers its crude oil preparation for use as a hog dip and mite killer. The price is quoted in the ad on page 8, freight prepaid.

Bickmore's Gall Cure is a standard veterinary remedy, none better for the purposes for which it is intended. Druggists sell it. See ad on page 8. Send for the free book on the horse and sample of the cure to Bickmore Gall Cure Co., Box 916, Old Town, Maine.

The Century Mfg. Co. makes and sells good buggles, surreys and farm wagons, cash or credit, and warranted for three years. Write for free catalog to Century Mfg. Co., Dept. 462, East St. Louis, ill. This company makes a good offer to agents. See illustrated announcement on page 13.

A Puzzle Picture appears on page 12 of this issue, in the advertisement of the Re-liable E. B. Guild Music Company, 722 Kan-sas Ave., Topeka, Kan. Here is a chance for some of our readers to exercise their ingenuity. Read the terms of the puzzle, and the offer made to successful solvers. When you send in your solution say you saw the puzzle in Kansas Farmer.

Mr. Galloway advertises his manure spreader at all seasons of the year. He is advertising it now in Kansas Farmer, as you will find out by turning to page 8. We would advise our readers to drop him a postal card as he suggests, and get his big money making and money saving proposition. Address Wm. Galloway Company, 389 Galloway Station Waterloo, Iowa.

You make your money on your live stock so it pays to take care of it. In case of sickness among your stock you cannot always send for a veterinarian but you can always be prepared by having some Standard Stock Remedy on hand. A very little money invested in Standard Remedies may save you many hundreds of dollars. A dumb animal cannot talk. It is up to you to know when he is alling and take care of him. Notice the changes made in the advertisement of the Standard Remedy Co., Topeka. Kan., and write them for full information.

What Cement?

What Cement?

Kansas Farmer knows its readers are interested in the Portland cement question. We are hearing from them on the subject. One of the very best cements is the Ash Grove Superfine Portland Cement. It is a Kansas product, made 10 per cent finer than government specifications require. The Ash Grove booklet is worth having. If your dealer doesn't sell Ash Grove cement, send for this booklet. Address Ash Grove Lime and Portland Cement Company, Dept. ?, Kansas City, Mo. See ad on page 5.—

Don't Ignore Small Things.

Don't Ignore Small Things.

Teel economy is as important in small things as in great, but it is more likely to be neglected. People who are obliged to use a large amount of rope are compelled to study the rope market and soon learn that it pays to buy the best and let the cheap stuff alone. This is likely to be overlooked by the small user because the amount involved is comparatively small, but it is a mistake to ignore the question. The reasons why a good rope is really cheaper than a poor one are just as frue for the farmer who buys a piece of rope for his hay carrier as for the ship owner who buys by the ton.

A Real Mineral Surfaced Roofing.

The new mineral surfaced type of roofings is one of the latest and best of labor saving; devices for the farmer. The old type of so-called "rubber roofings" were inexpensive and easy to lay, and became

very popular on that account. But they required painting every two years or so to keep them from leaking. Amatite Ready Roofing, which is the most popular of the mineral surfaced roofings, needs no painting or coating of any kind. After it is laid the farmer can leave it strictly alone, and it will continue to give him uninterrupted satisfactory service year after year. A sample of Amatite showing the real mineral surface can be secured without cost by addressing a post card to the nearest office of the Barrett Manufacturing Company, New York, Chicago, Philadelphia, Boston, Cleveland, Cincinnati, St. Louis, Pittsburg, Kansas City, New Orleans and Minneapolis.

Red-Blooded Exercise.

America is becoming too prone to sit back in contented admiration and watch the trained few engage in games of strength and skill. Exercise should be by the people and not for the people. As a means of exercise nothing embraces so much of pleasure and exhilaration as cycling. Every muscle, every nerve, every faculty is spurred to healthful activity. And best of all, this exercise is in the open, where each deep breath of air fills the lungs with the sweetest and purest of all health tonics, oxygen. Bicycles have been wonderfully improven even within the past five years. It is surprising what a fine wheel a few dollars will now buy. We never realized this so fully as we do after looking through the latest catalog of the Mead Cycle Company of Chicago. If you are interested in bicycles or if you feel the need of this sort of red-blooded exercise, write this company for a copy of their catalog. They will gladly send it and a wheel too for ten days' free trial if you wish. Address Mead Cycle Co., Dept. S. 284, Chicago.

A Big Nebraska Plant Expands.

The Dempster Mill Mfg. Co. is one of the best known firms in the West, manufacturing machinery used by farmers. Its business has grown so that the company is making extensive additions and has other additions in prospect. The company is now erecting an addition to its foundry 80 by 100 feet. When this building is completed the entire foundry will consist of the following: The main foundry 70 by 150 feet, rattler and grinding room 50 by 60 feet, rattler and grinding room 50 by 60 feet, rattler and grinding room 50 by 60 feet, the sass foundry 30 by 30 feet. The "south warehouse" will soon have added to it an extension 30 by 140 feet, two stories high, and then the implement factory will be enlarged by a building 65 by 150 feet, three stories and basement. All these improvements will be of concrete and brick construction and will make room for the employment of 50 to 100 more people than are now employed. Over 400 people are now employed at the Beatrice plant. This surely looks like prosperity, and it is prosperity build up on merit. This big company makes windmills, farm and ranch water supplies, pumps, grain drills, cultivators, well machines, tanks, etc.

The State Wide Fair at Topeka.

Topeka Kan., Topeka will hold a great State Wide fair this fall. Its gates will open to the public on Sept. 18, with the greatest display ever made on these grounds unless all signs fall, and they will not fall. The fair management has the money and the men and the location and the place in the big state fair circuit. Numerous improvements are now under way on the grounds for the better accommodation of both exhibitors and visitors. An extensive sewer system will be installed. The swine pens will be doubled in numbers and they will be located high and dry and away from other buildings so that there will be plenty of fresh air for the hogs. Free space will be given to machinery and implement exhibitors. Cash prizes in the live stock rings have been increased

ROOFING Lumber is getting scarce and shingles are not only higher in price, but they are poor in quality. When you put a roof on your building, it isn't temporary relief and a medium amount of satisfaction that you want, but permanent relief and complete satisfaction. Amatite is a real mineral surfaced roofing. Get it and you will experience at once what roof satisfaction is and what roofing difficulties can be prevented. You will find that it needs no painting or attention of any kind after it is laid. It doesn't pay to patch old roofs when you can get a new Amatite roof at scarcely any greater cost. Amatite is easy to lay and can be nailed on over the old roof without trouble. Get a sample of Amatite and do a little investigating. It won't do any harm, and when your roof needs attention or you erect a new building you will be glad to use it. BARRETT MANUFACTURING COMPANY New York Chicago Cincinnati Minneapolis Pittaburg New Orleans Philadelphia Cleveland Kansas City Address nearest office.

In Hay Baling than any other work the average farmer can do, especially if he uses an "EAGLE" STEEL PRESS

PASLE MFS. CO., 1995 Hickory St., Kassas City, Me



and the American Hereford Breeders' Association and the American Berkshire Breeders' Association have already added special cash premiums while the Percheron Registry Company have added their handsome series of cups and medals for Percheron horse exhibits. Most important is the fact that Topeka has an important place in the regular state fair circuit which permits exhibitors to show at Des Moines, Iowa, Lincoln, Neb., Topeka, Kan., St. Joseph, Mo., Sedalia, and the American Royal with short shipments between and good money at each place. Write Secretary R. T. Kreipe, Topeka, Kan., for a premium list and entry blanks.

Claim Your Sale Oate Early.

Claim Your Sale Oate Early.

A successful live stock auctioneer is an important part of a sale. Col. Lafe Burger writes us that he is booking fall dates very rapidly. If you are planning to hold a sale, it would be advisable to claim your date early and write Colonel Burger. Our experience has taught us that the breeder who claims a date early always has a better sale than when the sale is gotten up on a short notice. Write Colonel Burger at Wellington, Kan.

Buy Clark County Land.

Attention is called to the real estate ad of Eugene Williams of Minneola, Clark county, Kansas. Choice wheat, corn and alfalfa land is offered at fair prices. Minneola is in the best part of Clark county and those who invest in land in this section will have something that will beat bank deposits payable in clearing house

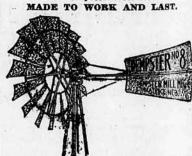
checks. Write today to Eugene Williams for list of valuable lands for sale. Mr. Wil-liams is a man with good judgment, is honest and reliable. Kindly mention Kas-sas Farmer when writing to him.

FIE

PUR

DEMPSTER WINDMILLS

Many Sizes and Styles. Steel and Wood. Vaneless and Solid Wheels. The Dempster Steel No. 8.



Noiseless, Long Lived Gears. Center Lift Crank. Three Bearings for Wheel Shaft. Reserveir Oll Boxes. Many other good points. Address Dept. G.

DHMPSTER MILL MFG. CO.,
Factory, Beatrice, Neb.

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\$10.00 Sweep Food | \$14.00 Salvanized orinder. CURRIE WIND MILL CO



GALVANIZED STEEL \$17 WINDMILL

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THE OTTAWA MFG CO. Ottawa, K

M. PENWELL,

Director and Licensed Embalmer.

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Stock Raisers, Attention!

Do you want to save your stock?
Put them on the market at the least possible cost without losing them.
Our Remedy will do this for you, a trial will convince you, and we can increase your profits from 10 to 20 per cent.
Disinfect your stock and pens, with a solution of Sunflower Dip. The results will be pleasing.
See our statement in last week's issue, and learn what we can do for you.
Profts are made by taking advantage of opportunities, and this is your oppor-

unity.

Send your order in to the STANDARD REMEDY COMPANY, 406-7 Commerce Building, Topeka, Kansas, and get a preventive before you sustain another loss. "NOTICE. To whom this may concern: We beg to state that we have no connection whatever with the Standard Stock Food Company of Omaha, Nebr. We are a Kansas Corporation, and Manufacturers of Stock Remedies, and they speak for themselves.

Seeing is believing.

THE STANDARD REMEDY COMPANY,

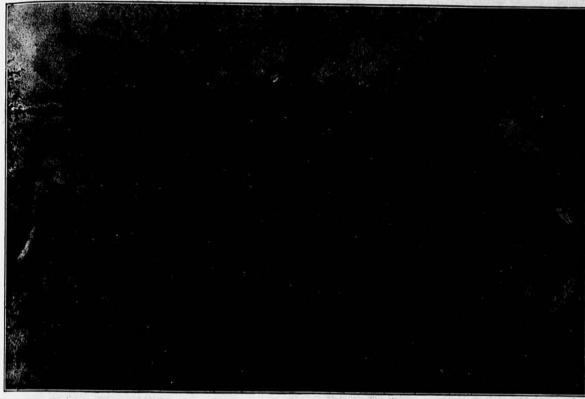
Manufacturers and Compounders of Stock Remedies, and distributors of Sunflower Dip. 406-7 COMMERCE BUILDING, TOPEKA, KANSAS.



Testing strength of ingot iron culverts manufactured by the Road Supply & Metal Co., Topeka, Kan. See ad on other page.

THE FEATURE OF MY COMING SHORTHORN SALE JU

Will be a Choice Line of Cows and Heifers bred to the Champion Bull, SEARCHLIGHT 292031.



the buyer. My herd is a working herd first The best I can ask is that you come and see—then buy if you wish. In writing for catalog be sure to mention Kansas Farmer. (Sale on my

The Females

numbering 37, include 10 choice two-year-old heifers, mostly by my chief stock bull, Prince Pavonia, and all safe in calf to Searchlight. A few super-excellent yearlings, including the first two daughters of New Goods (both Scotch) will also be included. The balance are young cows well along in calf or with calves at foot.

The Bulls

of which there are 10, constitute the best bunch I ever put in the sale ring. There are good roans and reds, mostly by Prince Pavonia, but enough of other breeding to accommodate the buyers of Pavonia heifers. Some in the offering have show yard quality and all are well bred. For pedigrees, see my illustrated catalog, free for the asking.

ard Hill's Kinellar-just enough to add spice

and variety.
So much for the pedigree—as you will see it lacks nothing. Now I want my customers, old and new, to realize that I sell only practical cattle, grown in a practical way and at prices that mean sure profit to

C. S. NEVIUS, Chiles, Miami County, Kansas.

FIELD NOTES

FIELD MEN.

0. W. Devine......Topeka, Kan. lesse R. Johnson.....Clay Center, Kan. J. W. Johnson......Beloit, Kan.



PURE BRED STOCK SALES.

Percherons.
or. 9-J. C. Robison, Towanda, Kan.
or. 11-Percheron Breeders' Sale at Manhattan, Kan. Will H. Rhodes, Manager.

Shorthorns.

B. L. Col. W. A. Harris, Lawrence, Kan., L. R. & W. T. Clay, Plattsburg, Mo., at Kansas City, Mo.

B. L. T. K. Tomsen & Sons, Dover, Kan., Kricultural College, Manhattan, Kan., Lat T. J. Wornall, Liberty, Mo., at Agri-

M. 10-Mrs. Wm. Brite, Pierce City, Mo.

Herefords.

September 29. Miss Lou Goodwin, Blue Apids, Kan., dispersion.

Aug. 3. J. A. Jenkins and W. L. Clark, away Springs, Kan.
Aug. 26. A. W. Shriver, Cleveland, Kan.
Sp. 23, 1909. J. R. Sparks, Hunter, Okla.
Ott. 5. J. D. Spangler, Sharon, Kan.
L. 26—Roy Johnsen, Seuth Mound, Kan.
L. 21—Herman Grenninger & Sons, Benten, Kan.

t is J. H. Harter, Westmereland, Kan. t Geo. W. Smith, Pawnee City, Neb. i: D. A. Weifersperger, Lindsey, Kan. i: J. H. Harter, Westmoreland, Kan.

Durecs.

1. Pearl H. Pagett, Beloit, Kan.

1. Miner & Cross, Guide Rock, Neb.

1. C. L. Carter, Caboel, Mo.

7, 9, A. L. Aitken and W. W. Weast,

n. 11.—S. W. Alfred & Son, Sharen, Kan. & 11.—S. W. Alfred & Son, Sharen, Kan. & 11.—J. E. Joines, Clyde, Kan. & 1.—Fen. H. Pagett, Beloit, Kan., and Mailon Saile at Concerdia, Kan. Combaile, Saile at Concerdia, Kan. & 1.—E. M. Myers, Burr Oak, Kan. & 1.—E. M. Myers, Burr Oak, Kan. & 1.—Alinehart & Slagle, Smith Center, Ma. & 1.—Alinehart & Slagle, Smith Center, Market & Mar

W. C. Whitney, Agra, Kan. Frank Elder, Green, Kan. Sale at Prank Elder, Green, Kan. Sale au Center, Kan.
Samuelson Bros., Manhattan, Kan.
Samuelson Bros., Cleburne, Kan.
Samuelson Bros., Blaine, Kan.
Thompson Bros., Garrison, Kan.
Thompson Bros., Garrison, Kan.
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The Samuelson Bros., Blaine, Kan.
The Samuelson Bros., Garrison, Kan.
The Samuelson Bros., Garrison, Kan.
The Samuelson Blaine, Kan.
The Samuelson Bros., Manhattan, Kan.
The Samuelson Bros., Cleburne, Kan.
The Samuelson Bros., Cleburne, Kan.
The Samuelson Bros., Gleburne, Gleburne If interested in cheap lands write F. L. McCoy, real estate dealer of Eskridge, Kan. Elsewhere in this issue will be found his advertisement in which he offers improved farm in Wabaunsee county for \$39 per acre. This is cheap and worth investigating. When writing mention Kansas Farmer.

A Kansas Farmer fieldman visited Mr. C. G. Nash recently. Mr. Nash is located at Eskridge, Kan., and owns one of the finest herds of Berkshire swine to be found anywhere. His herd boar is Master Longfellow, winner of grand championship at Hutchinson 1907. The sows in the herd are mostly of Black Robin Hood breeding.

Dr. W. M. Shirley of Hiawatha, Kan., has an advertisement in our Jersey cattle department this week calling attention to a young bull which he has for sale. By reading the advertisement it will be seen that this bull comes from the best kind of milking strains. He is a good one in every way and will be priced very low. When writing please mention Kansas Farmer.

H. B. Giles of Emporia, Kan., starts an advertisement in this issue of Kansas Farmer.

H. B. Giles of Emporia, Kan., starts an advertisement in this issue of Kansas Farmer. Mr. Giles is one of the leading real estate dealers of Lyon county. He has a very large list of desirable town and suburban properties in and near Emports one of the finest cities in the whole country. For the farmer that wants to retire and be where the school advantages are first class Emporia can not be beaten. If you want something good and a square deal write Mr. Giles. The writer has known him for years and finds it a pleasure to recommend him.

Poland China Show Prospect for Sale.

J. W. Ferguson of Topeks, Kan., is advertising some show prospects in Poland Chinas. Look up his ad on another page and write him. Mr. Ferguson does not raise yery many hogs but he always has the best there is, and grows them out well. Write for prices and kindly mention Kansas Farmer.

Poland China Sale Aug. 26.

Mr. A. W. Shriver, Cleveland, Kan., will hold a bred sow sale Aug. 26, 1909, at Cleveland, Kan. Complete announcements will appear in Kansas Farmer. Write Mr. Shriver to put your name on his list for a catalog. He has some very fine brood sow that will add dignity to any herd in the country. It will pay you to write Mr. Shriver about his herd. Kindly mention Kansas Farmer when writing.

Duroc Herd Header Prospects.

F. M. Buchleim of Lecompton, Kan., is offering some valuable herd header prospects sired by Long Wonder and Taterax and out of such sows as Bessle Advance, Josie Surprise, and Taylor's Pet. Bessle Advance was sired by Proud Advance and a good individual. Josie Surprise has a litter by Taterax the Kansas and Oklahoma champion. Taylor's Pet is a half sixter to Taterax and has a litter by High Notcher. Write Mr. Buchheim for prices. Kindly mention Kansas Farmer when writing to him. Duroc Herd Header Prospects

Show Boar Sold.

Mr. O. A. Tiller, Duroc Jersey breeder of Pawnee City, Nebr., writes us that he has just purchased the show boar Tom Davis

formerly owned by Gilbert Van Patton of Sutton, Nebr. Tom Davis is one of the good sires of the breed. He won first in class at Nebraska State Fair 1906 and second at Iowa State Fair the same year. He sired the first prize male pig under six months at Nebraska State Fair 1907 and his get won at the same show the next year. He has proven himself a good breeder and will be a valuable addition to Mr. Tiller's good herd.

A Show Boar at Head of Herd.

A field man for Kansas Farmer called at the farm of W. S. Hormel, near Plymouth, Kan., and enjoyed a short visit with him. We were greatly surprised to find on this farm, ene of the best Poland China boars in the state. Special Builder, sired by Goodrich Special, his dam was Alert's Daughter by Prince Alert, his grand sire was old Chief Perfection 2nd and his grand dam was Cute Keep On. Special Builder is not only a well bred boar but is an extra good individual. He has proved a great sire of good litters. Mr. Hormel is growing out a young boar King Corrector sired by Corrector 2nd and his dam was Clover Flossie by Perfection E. L. and out of Crucilla. His third dam was Crusaders, a litter sister to Impudence. Mr. Hormel has only a small herd but will buy a few choice sows this fall to breed to these good boars. We hope to be able to say more about this herd in a short time.

O. I. C. Bred Sows.

Elsewhere in this issue will be found the advertisement of Dr. T. O. Brown, proprietor of Brown farm located at Reading, Kan. Dr. Brown is offering for immediate sale 12 O. I. C. sows and 20 last fall glits. Also early spring pigs of both sexes. The sows are bred for June, July and September farrow. They are large fine individuals with excellent pedigrees, the Kerr Dick and other good strains being represented. Dr. Brown has over two hundred head on hand and must reduce the size of the herd and for this reason will make very attractive prices for a short time. He is also offering to sell two very fine registered Jersey cows, two bull calves and a couple of young standard bred registered stallions sired by the noted Silkwood. Write Dr. Brown your wants and be assured of fair treatment. Please mention Kansas Farmer when writing.

Jersey Herd Bull.

This issue of Kansas Farmer contains the advertisement of Mrs. L. C. French of Marion, Kan. Mrs. French is offering for sale her great herd buil Jewell's Decanter. She has so many of his heifers that it has become necessary to purchase another bull and her herd being small one buil is sufficient. Jewel's Decanter is a splendid individual, very gentle and having a splendid pedigree. He is a son of Decanter 27744 by Diploma, the sire of Merry Maiden the cow that won sweepstakes at the World's Fair. His dam is Chromo's Jewel 27042, a cow with a fine butter record. She was sired by Chromo 26118, he by Diploma by Combination 4389. His heifers are fine and he is just in his prime. But he can not be used longer to advantage in this herd and will be priced low. Mrs. French has also eight good young bulls, all eligible to record. solid colors and fine prospects. Write for prices and descriptions. When writing mention Kansas Farmer.

Public Sale of Poland Chinas Aug. 3, 1909.
J. A. Jenkins and W. L. Clark of Conway Springs, Kan., will hold their first Poland China bred sow sale at Conway Springs, Kan., Aug. 3. They will offer 35 brood sows and glits, and a few boars. One feature of this sale will be the get of or sows bred to the show boar, Toronado is by Meddler 2nd and out of Hold On

Don't Be Deceived About Roofings

Don't judge any roofing by the way it looks before it is laid. The only test of a roofing is how it will wear.

There are more then 300 substitutes for the genuine Ruberoid. Some are known as rubber roofings." Others have names which sound like Ruberoid.

A single summer of use will show the difference.
For there is no rubber in Ruberoid. It is not a tar roofing. Not an asphalt roofing. Not an asbestos roofing.

Its wonderful properties are due to our exclusive product, Ruberoid gum.
This gum is as flexible as new rubber, but it permanently withstands the heat, the cold, the rain, the enow—which rubber will not do.

It is so nearly fire-proof that hot coals thrown on a roof of Ruberoid will set fire neither to the roofing nor the timbers underneath.

(REGISTERED IN U. S. PATENT OFFICE)

rold roofing was the first ready roofing by Ruberoid rooming was the first ready rooming by several years.

Asphalt roofing and the so-called "rubber" and "asbestes" roofings have come—and gone—and been replaced. While the first roofs of Ruberoid, laid more than seventeen years ago, will see many more years of actual use.

Buberoid roofing is made plain and in colors. Buberoid roofing is made plain and in colors.

These colors, Red, Brown, Green, are a part of the roofing—they do not wear off or fade. They are impregnated under our exclusively owned, patented process.

Get This Free Book

Before deciding on any roofing for any purpose, get our free book which gives the results of our tests with all kinds of roofings—shingles, tar, tin, asphalt and ready roofings.

This book is a gold mine of practical roofing information, and will be sent free to all who address Department 56F The Standard Paint Company, 100 William Street, New York.

in each town to ride and exhibit sample jogo model. Write for Special Offer. 1900 Models \$100 to \$27 1900 Models \$100 to \$27 1900 Models \$7 to \$12 all of best makes \$100 to \$

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by On & On. He is a litter brother to Royal Tourist, a champion at the Missouri State Fair last year. Toronado while he never has been shown is considered by good hog judges to be a winner if properly fitted. He is one of the promising young herd boars. He is not only a good show prospect but a breeder of large, even litters. Most of the glits that will go in the sale will be sired by Toronado and bred to Keno Imp. by Impudence, a splendid breeding hog by J. C. Hanna's great boar Impudence. Keno Imp. is owned jointly by Jenkins and Clark. While Toronado is owned jointly by Jenkins and G. M. Hebbard. We will have more to say later in Kansas Farmer about this herd and sale. Watch for further mention.

Tolman's Herefords.

The writer recently spent several hours very pleasantly at Sunrise stock farm located in Dickinson county near the town of Hope Kan. This farm once belonged to C. A. Stannard, now owner of the famous Sunnyslope farm at Emporla. Mr. Stannard began his career as a Hereford breeder on the farm, now known as Sunrise farm, and its present owner, J. W. Tolman, is still engaged in the Hereford business. He has had a very prosperous year as far as sales and good prices are concerned. Among others that he has sold to is E. E. Marsh of Kussell, Kan., and a Mr. Armagast of Girard, Kan. The herd bull, Princeps 11th, purchased at Kansas City last fall, has made a nice growth and is getting better every day. He is by Princeps 4th tracing to Don Carlos. His dam was Iva 4th by the great Benjamin Wilton. Mr. Tolman's cows are representatives of the best strains; daughters and grandddaughters of Lord Wilton, Beau Donald 19th, Hesiod of Brookside, Archibald Mac, Comet and

TOO LATE TO CLASSIFY.

FOR SALE.

16 a. in Howell County, Mo., 3½ miles of West Plains, nearly 4,000 fruit trees, young and in good bearing age, house, barn and box house. Flowing well, filtered cistern. Climate is ideal, the place is exceedingly pleasant. Poultry, cattle and hogs dwell. One could make \$5,000 or \$6,000 a year clear if handled right. Address C. J. F., care Kansas Farmer.

IRRIGATED FARMS FOR SALE.

In the famous Arkansas Valley of Colorado and the Pecos Valley of Toxas, reasonable prices; good terms. If you want a money making investment or an ideal home write for further information.

J. F. CURRY, Lamar, Colo.

WABAUNSEE COUNTY LAND.

160 acres ten miles from town, 80 acres
under plow, 5 room frame house, barn for
7 horses, 6 acres alfalfa, half acre orchard,
good well and running water, cellar, cistern, cribs, hen house, etc. Price \$30 per

F. L. McCOY, Eskridge, Kan. LYON COUNTY LANDS.
Choice half section, well improved, school, mail, town, 8 miles Emporia \$60.
Photos sent. A choice 80, \$5,000. 160 near town, \$50. Send for list.
H. B. GILES,

FARMS FOR SALE in South Missouri. I have several good farms for sale on easy payments from \$5.00 to \$10.00 an acre. Please write me for full particulars.

WILLIAM BOWEN, Missouri

SPANGLER'S BIG POLANDS.—200 spring pigs out of sows by Mastadon, Gold Coin, Mogul Ex, and others; by such boars as Spangler's Hadley by Big Hadley and Progression by Expansion. Fall boars by Proanteed. Write J. D. Spangler, Sharon, Kan.

BRED SOWS AND GILTS FOR SALE. A few choice sows and gilts for sale bred for fall litters. Write me your wants. I can please you. A. W. SHRIVER,

Cleveland,

STRYKER BROTHERS' POLANDS.

Pigs by Meddler 2d, Meddler's Medal. Imp.'s Likeness and other valuable boars. Excellent herd prospects. Nice bred gilts. STRYKER BROS.,

BIG TYPE POLAND CHINAS. For quick sale few Aug. and Sept. boars, out of grandson of Expansion and Victor X. L. winner at World's Fair. 3 of the boars out of Lady Youtell 4th the dam of Prince Yeutell. Cheap if sold soon.

J. H. HARTER, Westmoreland, Kan.

FOR SALE.

One Poland China brood sow sired by Mischief Maker; one boar pig just weaned sired by Voter Champion at Illinois 1907, out of the above sow; two weanling boar pirs by Meddler 2d 111111 best son. Their dam by Perfection E. L.; one show boar sired by Corrector 2d. dam by Perfection E. L., whose dam is Crucella, litter sister of Impudence by Keep On; also 3 show gits out of same litter farrowed Sept. 18, 1908. They are very growthy and healthy, will price cheap for such stock. J. W. FERGUSON, Route 1, Topeka, Kan.

KING OF COLS. 2D.

The greatest living Col. boar heads my bord, assisted by G. C.'c Col. a close second. My sows are by Ohlo Chief, old King of Cols. King of Cols. 2d, The Chief, Model Chief Again and other noted boars. 125 very choice pigs nearly all by the Col. boars. This is the Grant Chapin herd and I assure you the best in Duroc blood and individuality. Visitors welcome.

FRANK ELDER, Green,

THE BROWN FARM
For sale.—O. I. C. females, 12 tried sows bred for early fall farrow, 20 fall gilts. Pigs both sexes, 2 registered Jersey cows 2 bull calves and 2 registered standard bred Silkwood stallions.—T. O. BROWN, Read-

EAST SIDE DAIRY HOLSTEINS
has several sons of Hengerveld Sir De Kol
(sire of Pontiac Maid 13.2 pounds at two
years): he is by Hengerveld De Kol (82
ARO dau's) and dam is Inka Darkness 2d
Oueen (over 25 pounds). The dams of
these fellows are of Gerben, Pietertje, and
Johanna strains and are excellent cows.
Two bulls old enough, for service. If you
are looking for good breeding and individual excellence I have both. Also get particulars on cows and heifers.
F. J. SEARLE,
Oskaloosa.

Kansas.

other good sires. Mr. Tolman is offering for sale one very choice young bull, a good individual, well marked with good lines; quite a prospect for a show bull this fall. Mr. Tolman has but the one and is anxious to sell and for this reason will price him very low considering quality. When writing to him mention Kansas Farmer.

Elder's Durocs.

This week we start the advertising card of Mr. Frank Elder, Duroc breader, of Green, Kan. It will be remembered that Mr. Elder bought the entire herd of Durocs belonging to Grant Chapin. By this deal Mr. Elder came into possession of what is we believe universally conceded to be the greatest herd of the breed in Kansas. With the herd was bought the highly improved farm adjoining the town of Green. The herd boars included in the purchase at a price large enough to buy a quarter section of land are King of Cols. 2nd and the best Col. boar living and G. C's Col., a sire almost equal and having as good a pedigree as any living hoar. The sows 40 of them are the tops Mr. Chapin having shipped out all but the very best when cholera struck the herd last fall. They are a valuable collection representing quite a variety of the choicest breeding. All of them have either been purchased at long prices or have been bred on the farm and kept in the herd because of their excellent qualifications as brood sows. There are nine by that great old sow sire Mydel Chief Again, one by old King of Cols., five by King of Cels. 2nd, one by the noted boar the Chief, one by B.'s Col. and other sires of like note. There are about 125 pigs that are the best ever seen on the farm, most of them are by the Col. boars. Mr. Elder is a born hog man and is demonstrating his ability as a developer. He is making a business of raising Durocs and is making no mistake by devoting his entire time to the work. Those of our readers that are in the market for boars or gilts should begiln correspondence with Mr. Elder at once. When writing please mention Kansas Farmer.

Agricultural College Students Visit Sutton Farms.

Agricultural College Students Visit Sutton Farms.

Some weeks ago the writer visited one of the famous Sutton farms at Lawrence, Kan., and came away in the firm conviction that Geo. Porteous has in charge the best bunch of young Aberdeen-Angus cattle we had ever seen on a breeding farm and that the herd buil, Champion Ito, is the coming buil of the breed if, indeed, he has not already arrived. It is very pleasant, therefore, to have this judgment confirmed by such an authority as Prof. R. J. Kinzer of the State Agricultural College who said: "The Angus calves on Sutton farm are the equal of any I have seen on any farm in the land and it is a pleasant surprise to me to know that every female of breeding age on the farm has a calf at foot or is well settled in calf. In so large a herd this is a remarkable condition and is a body blow to those who would belittle the breeding qualities of the Angus cattle." Prof. Kinzer is one of the most progressive teachers of animal husbandry in the country and, on Monday last, he took his large class of students from Manhattan to Lawrence to give them an opportunity to inspect the Berkshire and Aberdeen-Angus herds of Chas. E. Sutton and to study his methods. The occasion was more netable, perhaps, by reason of the fact that Hon. Joseph A. Rosen, chief of the Agricultural Department of his home state in Russia was with the party. Mr. Rosen is investigating the agricultural and live stock conditions and our farming methods for the benefit of his own people and his visits to the Agricultural College and to Sutton farms were important as a means of getting this information at first hand. Mr. Sutton is enthuslastic in his praise of the earnestness of these young men who, in the near future, are to shape the destinies of the state as well as her different breeds of live stock. Two of these students were intense in their efforts to gain all possible information. While at Sutton farm the owner offered a Berkshire boar pig as a prize to the student who scored highest in a judging conte

Nevius' Shorthorn Sale June 10.

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On Thursday, June 10, C. S. Nevius, of Chiles, Kan., will hold his fourth annual sale of high class Shorthorns. Mr. Nevius has never offered at public sale a better lot of cattle than will be in this offering. The two herd bulls, Prince Pavonia one of the great breeding bulls in Kansas, and Searchlight the champion of two state fairs and first and grand champion at the Enid Live Stock Show, should attract the attention of all lovers of the breed. There is listed ten bulls and thirty-seven females. The top of the bull offering is the Scotch Violet bull, Prince Violet 5th, a son of Prince Pavonia, dam Violet of Ellerslie, one of the most valuable cows of the Violet tribe. Prince Violet 5th is a yearling bull of plenty of scale, a red, thick fleshed and smooth. Good head with the character stamps him as a good herd bull proposition. Sir Magnet is another high-class Scotch bull. He was got by Missie's Robin, out of Silver Magnet by Magnet. Then follow dams got by such sires as Gallahad, Craven Knight and Roan Gauntlet. He is a good red, an eventy turned bull, and should be appreciated. Artie's Lad by Lavender Lad is another that was in Mr. Nevius' 1908 show herd and has made a desirable growth since. May's Prince by Prince Pavonia is a Young Mary that will prove a good bull. There are five or six other sons of Prince Pavonia listed from which buyers can select good bull material. The strong individual character of the cows and helfers Mr. Nevius sells and the fact that many are by Prince Pavonia and bred to the champion, Searchlight, adds interest to the sale. Two helfers by New Goods, the Messrs. Harriman Bros.' bull, are rare attractions. One, a Lavender two-year-old, is bred to Searchlight, She is a sweet thing, thick fleshed and desirable every way. The other is a Secret with lots of quality and finish. A Scotch Pavonia, out of the same dam as Mr. Nevius' senior stock bull and got by Happy Knight by Gallant Knight, is a desirable sow. She is safe in calf to Searchlight is no con

let is Prince's Violet 6th by Prince Pavonia and bred to the champion, Searchlight. Another good thing by Prince Pavonia and bred to Searchlight is Graceful Princess. Royal Victoria by Royal Wonder and her yearling heifer by Victor Anoka, a grandson of the champion, Viscount of Anoka, are a valuable pair. There are a whole string of just this kind listed and buyers will find the Nevius sale a good one to attend to get good, honest values. The catalog is ready to mail and can be had for the asking. Arrange to attend this sale of high class cattle. The change in the new time card of the Missouri Pacific Railway will prove a great benefit for the Shorthorn sale of C. S. Nevius, Chiles, Kan, June 10. The fast trains, Nos. 1 and 2, on the Missouri Pacific will stop at Chiles on sale day and besides these there are four others on the Missouri Pacific which always stop at Chiles. Parties coming into Paola the morning of the sale, or the night before, should take No. 2, which leaves Paola at 7 o'clock in the morning. Parties leaving for the west and south after the sale can tage No. 1 which goes through Chiles at 8 o'clock in the evening. All this, as well as the Frisco service at Hillsdale (four miles from Mr. Nevius' farm) is shown in the time table in the back of the catalog. Parties expecting to attend the sale at Manhattan the following day cantake the new fast train on the Union Pacific, leaving Kansas City at 10:25 p. m. Both the Missouri Facific and Frisco make connections with this train.

are ready and will be send on application. Address C. S. Nevius, Chiles, Kan.

HEREFORDS

SPRING CREEK HEREFORDS.

Brain Orbital Harden Donald 3d by Beau Donald 7th in service. Females represent Anxiety 4th, Lord Wilton, Garfield and other families. Few good buils 7 to 8 months old at easy prices. Write or come. T. A. WALLACE, Barnes, Kan.

HEREFORD BULL FOR SALE. 17 months old, grandson of Imp. Lord Saxon, dam by Stonemason 13th, weighs 1,000 lbs., nicely marked, good top and under line, droop horn and a fine individual in every respect. Will price reasonable.

Hope. J. W. TOLMAN, Kanasa

Hope,

HEREFORD BULLS FOR SALE.

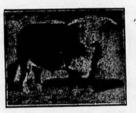
HEREFORD BULLS FOR SALES.

12 head sired by Onward 18th and Majestic Baron by Imp. Majestic, ranging in age from 12 to 26 months. All good ones. At least four of them herd headers. Very low prices considering quality. Will also spare few females.

S. W. TILLEY,

Irving,

Hanses.



Modern Here-fords. Herd bulls fords. Hera butte Beau Brummei 10th 167719, Beau Beauty 192255 and Protocol 2d 117715. Robert H. Hazlett, Hazford Place, Elderado, Kansas.

SHORTHORNS

CEDAR BLUFF SHORTHORNS.
100 head headed by Double Standard Orange Cup X5565 (253226.) SHAW BROS.,
Glade, Kan., (Rooks County).

A RARE BARGAIN.

My herd of Shorthorns is on the bargain counter. Five bulls \$50 each; 12 young cows with calves or coming fresh \$800; 10 heifers \$45; herd bull \$175. Entire herd \$1,550, a rare bargain.

J. E. WELLER, Faucett, Mo.

GREENDALE STOCK FARM.

25 YOUNG BULLS by Imp. Ardiathan
Mystery and Best of All for sale at bed
rock prices. Can also offer some good Berkshire swine and Shropshire rams. Correspondence solicited.

COL. ED GREEN, Prop.,
Florence, Kansas.

Florence,

JEWEL SHORTHORNS

A young herd of up-to-date breeding. Also Percheren and Standard bred herses. In stud: the Percheren stallibn Marquis De Wierre (imp.). Also the Standard bred stal-lion, Red Seth 31185. Farm adjoins town. W. T. LOWE, Kansas.

Spring Hill Shorthorns 300 Head Scotch and Bates Pedigrees

C. G. COCHRAN & SONS, PLAINVILLE, KANSAS.

ELMWOOD SHORTHORNS

FOR SALE NOW.

Six choice bulls by Lord Marr 249949 an from some of my best cows. Send for catalog giving breeding and prices.

F. M. GIFFORD, Wakefield,

E. HAYES,

BREEDER OF SHORTHORN CATTLE, OLATHE, KANSAS.

Herd headed by Baren Marr, a son of "Cumberland's Last" and out of Imp. Ledy Marr. 5 Scotch buils and a few females will be priced right. Come and see them.

SHORTHORNS

N. S. LEUZI.ER.
Breeder of the best in Shorthorns.
Almens, (Norten Co.) Kan.

Evergreen Home Farm.

Milking Shorthorn Cattle, bred Herales,
Berkahire Hogs. Oxford down Sheep.
Bourbon Red Turkeys. MISSOURL LATHROP,

RENO HERD SHORT. HORN CATTLE

Bulls in service, Forest Knight 226084 and Victor Archer 284156. Breeding stock for

Stewart & Downs, Hutchinson, Ks.

FOR SALE

10 choice yeans bulls from 8 to 13 months old, part straight Scotch.
Choice yearling and short two-year-old

Heifers.

Good colors, bred right, priced right.

C. W. TAYLOR, Pearl, Kan.

Enterprise. Address mail R. F. D. 2, Enterprise, Km.

Prospect Farm Shorthorns

The oldest Shorthorn breeders in Kansar The largest herd of Cruickshanks in Kansar Herd headed by Violet Prince 14544 and Orange Cemmander 220596. Young stock of both sexes and some cows for sale. Quality and prices right.

H. W. McAFRE,

POLLED DURBAMS

POLLED DURBAMS. Young bulls, cows and heifers for sale Prices reasonable. Write for them. C. J. WOODS, Chiles, Chiles,

BELVEDERE X2712--195058

son of the \$1,500 Grand Victor X 1685 15914 heads my herd of Double Standard Polisi Durhams. A few extra good blocky, thickfleshed young bulls for sale. Inspection isvited. Farm joins town.

D. C. VAN NICE, Richland, Kansas.

JERSEYS

JERSEY BULLS.—My herd buil. Jewell's Decanter by Decanter by Diploma, sire of sweepstakes cow at World's Fair. He is gentle as a lamb and will be priced low-also 8 young bulls with pedigrees. Must be sold quick.—MRS. L. C. FRENCH, Marion, Kan.

FOR SALE.

A. J. C. C. bull calf, 4 months old das made 362 lbs, butter with first calf (not has 3d calf). Sire's dam, 22 lbs. 10 est in 7 days with 2d calf. As this is the last bull till next crop will put a very low pret on him. Registered and crated f, o. b. cars DR. W. M. SHIRLEY, Hiawatha,

Jersey Cows, Heifers and Bulls

FOR SALE—A few Jersey cows and helf ers. Also two extra good young buils. H. F. ERDLEY, Hiawatba, Kansas.

Linscott Herd Jersey Cattle

Established 1878. Registered in A. J. C. C For sale, tuberculin tested, 6, heifers to der 2 years old, 13 cows under 6 years, i yearling buils.

R. J. LINSCOTT, Kansas Holten,

RED POLLS

COBURN HERD OF RED POLLS. GEO. GROENMILLER & SON, Kansas

FOSTER'S RED POLLS.

15 cheice young bulls, a few good femily
and our 2,400 pound herd bull Dandy S. iti
for sale at bettom prices. CHAS. FOSTE
& SON, Elderado, Kan.

POLAND CHINA SWINE
RED POLLED OATTLE
Best of breeding. Write or come and set
CHAS. MORRISON & SON, R. 2, Phillips

RED POLLS-PRIVATE TREATS.



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