# KANSAS FARMER

WITH WHICH IS COMBINED FARMERS ADVOCATE

Volume XLVII, Number 24.

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TOPEKA, KANSAS, JUNE 12, 1909.

Bstablished 1833. \$1 a Year

# Wheat Production in the United States.

Demand Increases Faster than the Supply. PROF. JOHN HAMILTON,

Pennsylvania

In the past ten years the annual wheat crop of the United States ranged from 522,229,505 to 735,260,970 bushels. The average annual production, however, for the ten years from 897 to 1906, was 631,181,626 bushels. The average yield per acre in the United States for the decade 1897 to 1906 as given by the report of the Department of Agriculture for 1906 was 12.69 bushels per acre. The averages per acre according to periods were as follows: 1871 to 1876, 11.70 bushels; 1877 to 1886, 12.51 bushels; 1887 to 1896, 12.66 bushels; 1897 to 1906, 13.82 bushels, and the average for the entire period from 1871 to 1906 was 12.69 bushels. The annual average value of the crop for the decade, 1897 to 1906, was \$9.48, and for the entire thirty-six years from 1871 to 1906, \$10.28 per

COST OF AN ACRE OF WHEAT.

When it is remembered that the cost of production of an acre of wheat in the eastern part of the United States is about \$12.50 but little argu-ment is needed to show its status in the list of profitable crops in that section. While the cost of producing an acre of wheat upon the new lands of the great West, where wheat is grown as practically the only crop, is at present much less than in the older wheat districts of the East, nevertheless the fact that the entire wheat acreage of the country averaged but \$9.48 per acre for the last decade, shows that the margin of profit even under the most favorable conditions is comparatively small.

That wheat is not an exception to other cereal crops in its value per acre is seen by the Census report for 1899, which gives the average value of all of the cereals taken together at but \$8.02 per acre. When it is remem-bered that of the acreage of all farm crops in 1899, 63.8 per cent were ce-reals, we can understand how vitally this low production effects the farmthis low production affects the farming interests of the country. While it is true that some farmers receive much greater income per acre from their cereals than the average indicates, yet an equal number receive correspondingly less, so that taking the country as a whole the average remuneration to the portion of the 35 per cent of our population who grow cereal crops must from this source of necessity be very slight.

CONSUMPTION OF WHEAT. The records show that our populaels of wheat per capita each year, de-pending upon the price, and the condition of the business of the country. The average consumption of wheat, however, taking all of the years between 1871 and 1906, was 5.25 bushels per capita per year. The average pro-duction of wheat during that same peried was 7.31 bushels per capita, leaving 2.06 bushels as surplus, which is an average of 28.2 per cent. The actual exports for the period from 1871 to 1907 as given in the statistical abstract for 1906 were. From 1871 to 1876, 23.78 per cent of the crop; 1877 to 1886. to 1886, 29.94 per cent; 1887 to 1896, 29.92 per cent; 1897 to 1906, 28.58 per cent.; 1887 to 1896, 29.92 per cent.; 1897 to 1906, 28.58 per cent, and the average for the entire period was 28.05 per cent. It will be observed

that the average pro rata for export for each period was practically uni-form, although the population of the country had increased in that time from 39,555,000 to 84,154,000, or 112.75 per cent.

INCREASED ACREAGE IN WHEAT. This is due to the fact that the acreage of wheat in the United States as given by the report of the Department of Agriculture in 1906 increased 137.19 per cent, from 19,943,893 acres in 1871, to 47,305,829 acres in 1906, or 24.44 per cent greater than the population. In other words, it required in 36 years 27,361,936 additional acres to be put out in wheat in order to supply our in-

creasing population and keep up the average per cent of our export trade. It is manifest that such an additional acreage cannot be expected in the next 36 years, for the great body of available wheat lands in the United States has been appropriated. The time will therefore come when at the present rate of production per acre our population will overtake our wheat production. As has been shown, wheat production by increas-

ing the acreage each year, has succeeded in holding its relative position as respects population during the past as respects population during the past 36 years, the average production per capita varying only slightly in any decade. The average production from 1871 to 1876 was 6.28 bushels per capita; from 1877 to 1886, 8.96 bushels; 1887 to 1896, 7.25 bushels; 1897 to 1906, 7.66 bushels, being a per capita average for the entire period of 7.31 bushels. During the same time the surplus for export has only varied from a minimum average of 23.78 per cent of the crop in the six years ended 1876, to a maximum of 29.94 per cent for the decade ended 1886 with an average for the entire period from 1871 to 1906 of 28.05 per cent.

RELATION OF WHEAT PRODUCTS TO

GROWTH OF POPULATION.

If the present wheat acreage were to stand still, and the bushels per acre now grown remain constant, allowing 5.25 bushels to the individual per year, and estimating our annual crop at 631,181,626 bushels, which is the average for the past ten years, a population of 120,225,071 would consume our entire production annually. At the present rate of increase this point of complete consumption would be

complete consumption would be reached inside of 15 years.

Mr. James J. Hill, in an address delivered at the dedication of the Livestock Pavilion on the Minnesota State Fair Grounds, September 3, 1907, presented some figures respecting the increase of our propulation. ing the increase of our population in the next 40 years that are worthy of serious attention. I quote from his address the portion relating to this point. Mr. Hill says:

"So careful an observer as Leroy Beaulieu gives the natural increase of our population as 15.2 per thousand per year. It is fair, therefore, to reckon the increase by the excess of births over deaths at 15 per cent on the average for each decade. The additions by immigration are more variable. It is highly probable, however, that the oncoming tide will increase. Only in periods of sovere depression beginning periods of severe depression has im-migration fallen much below the half million mark for the last twenty-five years. In good or fairly good times it has gone greatly above. In the two years before 1905 it exceeded 800,000 annually, while for each of the last two years it has exceeded one million. It is a conservative estimate, there-It is a conservative estimate, therefore, to add 750,000 a year for increase of population from this source, or 7,500,00 for each decade. Computed on this basis, the population of the United States in the near future will show these totals: Population in 1910, 92,248,895; population in 1820, 117,036,229; population in 1930, 142,-091,663; population in 1940, 170,091,-663; population in 1950, 204,041,223."

If Mr. Hill's estimate is correct or

If Mr. Hill's estimate is correct, or even approximately correct, and our population increases by the middle of this century to 204,000,000, we will need 1,071,000,000 bushes of wheat at 5.25 bushels per capita to feed our people. To produce this at 13.5 bushels per acre would require 79,259,185 acres, or 31,953,356 additional acres over that in wheat in 1906, or 67.54 per cent addition to our present acreage. Can this be secured?

DIVERSIFIED FARMING.

It is very clear that the states whose agriculture is now devoted almost exclusively to growing wheat must in the near future follow diversified forming so that instead of the states. sified farming, so that instead of in-creasing, they will have to restrict the percentage of their wheat area as has been found necessary in all of the Eastern States. This they will be compelled to do in order that the fertility of their soils may be maintained that they may produce sufficient crops to justify their tillage. To put out on any large scale more than one-third of the land adapted to cereal crops in wheat is practically impossible in any system to agriculture that is to continue.

The census of 1900 shows, that the per cent of acres in wheat as compared with the entire cereal crop is at present less than one third. The total land in cereals, barley, buckwheat, corn, oats, rye, wheat, rice and Kafir corn in 1900 in the United States was 184,994,588 acres.

In 1880 the proportion of acreage in wheat to the entire cereal crop was 29.8 per cent; in 1890, it was 23.9 per (Continued on page 11.)



"Hey, Fellers! She's Boilin' Hot."

# Canning

[For a discussion of the scientific aspects of canning and of the appliances refer to page 2 of the Kansas FARMER of June 5.]

SELECTION AND PREPARATION OF VEGETA-BLES

The first step in successful canning is the selection and preparation of the vegetables. Never attempt to can any vegetable that has matured and commenced to harden or one that has begun to decay. As a general rule, young vegetables are superior in flavor and texture to the more mature ones. This is especially true of string Vegetabeans, okra, and asparagus. Vegeta-bles are better if gathered in the early morning while the dew is still on them. If it is impossible to can them immediately, do not allow them to wither, but put them in cold water or in cold, damp place and keep them crisp until you are ready for them. Do your canning in a well-swept and well-dusted room. This will tend to reduce the number of spores floatingabout and lessen the chances of inocu-

In the following pages are given directions for canning some of the more common vegetables, but the housewife can add to these at will. The principle of sterilization is the same for all meats, fruits, and vegetables.

Contrary to the general opinion, corn is one of the easiest vegetables to can. The United States Department of Agriculture has shown that the amount of sugar in the sweet variety diminishes very rapidly after the ear is pulled from the stalk; therefore in order to retain the original sweetness and flavor it is necessary to can corn very soon after it is pulled-



Fig. 7 .- Position of spring during sterilizing. within an hour if possible. Select the ears with full grains before they have begun to harden, as this is the period of greatest sugar content. Husk them and brush the silks off with a stiff brush. Shear off the grains with a sharp knife and pack the jar full. Add salt to taste, usually about a teaspoonful to the quart is sufficient, and fill up the jar to the top with cold water. Put the rubber ring around the neck of the jar and place the glass top on loosely, as shown in fig. 6. Be care-ful not to press down the spring at the side of the jar.

Place the false bottom in the boiler and put in as many jars as the boiler will conveniently hold. Don't try to crowd them in. Leave space between them. Pour in about 3 inches of cold water, or just enough to form steam and to prevent the boiler from going dry during the boiling. It is not nec-essary to have the water up to the neck of the jars, as the steam will do the cooking. Put the cover on the boiler and set it on the stove. Bring the water to a boil and keep it boiling for one hour. At the end of that time remove the cover of the boiler and allow the steam to escape. Press down the spring at the side of the



Fig. 8.—Position of spring after sterilizing.

# Vegetables in the Home

# By J. F. BREAZEALE,

Bureau of Chemistry, U. S Department of Agriculture.

jar, as shown in fig. 8. This clamps on the top and will prevent any outside air from entering. The jars can now be removed and cooled or allowed to stand in the boiler until the next

On the second day raise the spring at the side of the jar, as shown in fig. This will relieve any pressure from steam that might accumulate inside the jar during the second cooking. Place the jars again in the boiler and boil for one hour. Clamp on the top as on the preceding day and allow them to cool. Repeat this operation on the third day. In removing the jars from the boiler be careful not to expose them to a draft of cold air while they are hot, as a sudden change in temperature is likely to crack

After the sterilization is complete the jars may be set aside for a day or two and then tested. This is done by releasing the spring at the side and picking up the jar by the top (fig. 8). If there has been the least bit of decomposition, or if sterilization has not been complete, the top will come off. This is because the pressure on the top has been relieved by the gas formed by the bacteria. In this case



Fig. 9.-Manner of testing.

it is always best to empty out the corn and fill up the jar with a fresh supply. If canning fruit or some expensive vegetable, however, examine the contents of the jar and, if the de-composition has not gone far enough to injure the flavor, place it once more in the boiler and sterilize over again. If the top does not come off, you may feel sure that the vegetable is keep-

STRING BEANS.

Select young and tender beans, string them, and break them into short lengths. Pack firmly in the jar, cover with cold water, and add a teaspoonful of salt to each quart. on the rubber and top and boil for one hour on each of three successive days, as directed under "Corn." A small pod of red pepper placed in the bottom of the jar will give a delightful flavor to this vegetable.

EGGPLANT.

Pare the eggplant, cut in thin slices, and drop in boiling water for fifteen or twenty minutes. Drain off the water and pack the slices in the jar. Cover with water and sterilize as directed The slices of eggplant under "Corn." are pliable and may be taken from the jar without being broken and either fried in bread crumbs or made into pudding and baked.

BEETS

Although beets will keep in the cellar over winter, it is very desirable to can them while they are young and tender, as the mature beet is apt to be stringy and lacking in flavor. Wash the young beets, cut off the tops, and put them in boiling water for about an hour and a half, or until they are thoroughly cooked. Cover with water and sterilize in the manner previously described. If a mild pickle is desired, make a mixture of equal parts of water and good vinegar, sweeten to taste, and cover the beets with this mixture instead of water.

OKRA OR GUMBO. This is a vegetable worthy of more extended culture. Although extensively grown in the South, it is comparatively unknown in the North. It

is easily kept and makes a delicious vegetable for the winter. Wash the young and tender pods, cut them in short lengths, pack in jars, cover with water, and sterilize. Okra is used for soups or stews.

SUMMER SQUASH.

Cut the vegetable into small blocks, pack in the jars, and cover with water. Add a teaspoon of salt to each quart and sterilize. It is sometimes preferable with this vegetable, however, to pare off the skin, boil or steam until thoroughly done, mash them, and then pack in the jars and sterilize. canned in the latter way, it is advisable to steam them for an hour and a half, instead of for an hour, on each of three days, as the heat penetrates the jar very slowly. It is absolutely necessary that the interior of the jar should reach the temperature of boiling water. A jar will usually hold about twice as much of the cooked vegetable as it will of the uncooked. ENGLISH PEAS.

When prepared and canned in the proper way, peas are easily kept and never lose the delicate flavor that they possess when fresh. Shell the young peas, pack in jars, and sterilize as directed under "Corn."

ASPARAGUS. Can the young tips only, in the same way as you would corn.

CAULIFLOWER. This vegetable usually keeps very well, but if the supply for the winter should begin to spoil it may be necessary to can it during the summer. Prepare it as you would for the table,

pack it into jars, and sterilize. CARROTS AND PARSNIPS.

These, if gathered during the early summer and canned, make most excellent vegetables for the winter. The young plants at that season are not stingy and have not yet developed the strong taste that is so objectionable to some people. Prepare as you would for the table, and sterilize.

TOMATOES. Every housewife knows how to can tomatoes. They are very easily kept, even in the common screw-top Mason If one already has on hand a number of jars of this pattern, it is best to use them for preserves or for canning tomatoes and to purchase the more modern styles for canning other vegetables. In using the Mason jars be careful to sterilize them first by placing in cold water, bringing to a boil, and boiling for about ten min-utes. The rubber and top should also be immersed in boiling water for the same length of time. Remove them from the boiling water when needed, handling as little as possible. Be careful not to put the fingers on the inside of the top or the inner edge of the rubber. Fill the jar with the cooked tomatoes while steaming hot, put on the rubber, screw on the top firmly, invert it, and let it stand in that position until cool.

KOHL-RABI This vegetable resembles the turnip in its habits of growth, although in flavor it more nearly approaches the cauliflower. It is grown in many sections of the North, but in the South it is almost unknown. Prepare it as you would turnips, pack in the jar, and sterilize.

LIMA BEANS.
Lima beans lose their flavor very quickly after being shelled; therefore it is necessary to can them as soon as possible after gathering. Discard all pods that have begun to harden, and proceed as you would with corn.

PUMPKIN OR WINTER SQUASH. If provided with a warm, dry cellar one may keep certain varieties of these vegetables all winter. Some of the best varieties, however, do not keep well, and even the best keepers when not properly housed begin to decay in December or January. It is then necessary to can them in order to save them. If one has a limited number of jars, it is a good plan to fill them all with other vegetables during the summer and upon the approach of frost to gather the pumpkins and bring them indoors. By the time the pumpkins begin to spoil, enough jars will be emptied to hold them. They can now be steamed and canned

in the same way as summer squash.

in this way a supply of jars may be made to do double service.

SUCCOTASH. The writer has found that a mixime of corn and lima beans, or succotash, is one of the most difficult things to keep. This furnishes one of the very best mediums for bacterial growth; so extreme care must be taken in the process of canning. It is advisable to gather the corn and beans early in the morning and prepare and sterinze them in the manner already described. As with summer squash, it is best to boil for an hour and a half, instead of for an hour. VEGETABLE ROAST.

A rather unusual dish for the winter may be made by canning a mix. ture of vegetables. Prepare corn, lima beans, tomatoes, string beans, okra, squash, and eggplant as you would for canning separately. Mix these in varying proportions, letting

the corn and lima beans predominate, Add two or three medium-sized onions to each quart of this mixture and run all through a food chopper in order to mix it thoroughly. Pack in jars and sterilize. In preparing for the table mix with an equal volume of bread crumbs, a piece of butter the size of a walnut, and one egg; season to taste with pepper and salt, and bake in a round baking dish until brown, Cut into slices as you would a cake and serve hot with a drawn butter

Corn, okra, and tomatoes, mixed in equal proportions, may be canned in this way as a soup stock.

FRESHNESS OF FLAVOR AND COLOR. Vegetables when canned properly should retain their attractive color and lose very little of their flavor. It will be found almost impossible to detect any difference either in taste or in appearance between the canned and the fresh article if these directions are carefully followed. The volatile oils which give flavor to most vegetables are not lost during this process of sterilization. Cooking for three short periods in a closed container at a comparatively low temperature instead of cooking for one short period at a high temperature or for one long period in an open vessel makes the vital difference and insures freshness of flavor and color. After the jars have been sterilized and tested, they should be kept in the dark, as the sunlight will soon destroy the color of the vessels. soon destroy the color of the vegetable.

Jars of vegetables are sometimes hard to open, unless it is done in just the right way. Run a thin knife blade under the rubber, next to the jar, and press against it firmly. This will usually let in enough air to release the pressure on the top. In case it does not, place the jar in a deep saucepan of cold water, bring to a boil, and keep it boiling for a few minutes. The jar will then open

These directions for canning apply only to pint and quart jars. If halfgallon jars are used, always increase the time of boiling, making it an hour and a half instead of one hour.

Do not go into canning deeply at first. Experiment with a few jars in the early part of the season and see if they keep well. It is not a difficult matter to can vegetables properly. The writer has never lost a can of string beans, okra, eggplant, carrots, parsnips, lima beans, beets, asparagus, or pumpkin in several years' experience, and has had only one can of peas spoil, a few cans of corn during the earlier trials, and a few cans of succotash. Any housewife can do equally well. If you follow the directions here given carefully you will tions here given carefully, you will have no difficulty whatever. should happen to fail in the first trial, rest assured that you have done some thing wrong or left something undone. No housewife who has on hand during the winter a supply of home-canned vegetables ready to serve on ten minutes' notice will ever regret the irouble or difficulties experienced in learn

News from west Texas brings the information that cattle are dying by thousands from starvation because of drouth. Rain has not fallen in six months and the plains in many large areas are as barren as a desert. Herds are being moved as rapidly as possible to Oklahoma and Kansas to save the stock from starvation.

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# FARM INQUIRIES

ANSWERED BY Prof.A.M.TenEyck

Alsike Crover. Will you tell me if you have had any perience with alsike clover? Which the best feed, alsike clover or alfa? How many times a year can ucut it? What kind of feed does it ike for cattle? Will it stay in the ound or do you have to seed it every ar? When is the best time to plant clover?-John Tincknelt, Cher-

vale, Kan. In localities to which alfalfa is adaptit is far superior to alsike clover hay meadow. A combination of alfa and bromus inermis makes a oductive and a fairly safe pasture. chard grass and English blue grass th alfalfa may be preferable to the falfa-bromus combination.

Alsike clover may be sown with asses for pasture. Sow about 12 to pounds of the English blue grass, to 15 pounds of orchard grass with pounds of clover or eight pounds alfalfa seed per acre.

Alsike clover is by nature a bienn-Most of the plants die the secd year after maturing seed. How-rer, when sown with grass, clover ay continue more or less productive ranumber of years. We have found ske clover not to be so productive r meadow as the common red or amnoth clover. But it is somewhat he préferred for pasture on account its more permanent character and

so its great hardiness. Alsike clover hay makes excellent ed for cattle, especially young stock ad calves. However, it is not more duable than alfalfa as a forage for

White Navy Beans.
I would like to have some information on raising the white navy beans some other kind that would make good yield of seed, or that would be for feeding to stock.

I have tried cow-peas, the Whip-por-will kind, and soy-beans and mmon navy beans. Planted all at the same time, the navy beans yield-ithe best, the ofher two varieties d poorly. The cause may be that I anted too early. April 20 two years anted too early, April 20, two years

I have 30 acres of second bottom and where the wheat has been killed by drought. I want to sow rye in ext fall. I will feed yearlings next inter. The question with me is, hat would be the best crop all round but in this fold taking the future. put in this field, taking the future op and feeding the cattle in consid-ation. I have in mind first, Siberian illet for seed, second 110 day yellow in planted with lister 20 inches part cut with binder; third navy w, five inches apart in the row.— hn Spischny, Wilson, Kan.

I have mailed circular giving infor-ation regarding field beans. We are blishing a bulletin on cow-peas hich may be secured within a counte weeks from the Director of the Exriment Station. It is now on the

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All of the bulletins of this station sent free to the farmers of Kan-S. Simply send your name to E. H. ehster Director Experiment Station,

anhatlan, Kan. It is not too late to plant corn. We We matured corn. Reid Yellow Dent riety by planting as late as June 10. forage you may sow millet, cane The cane or Kafir are usuv preferred in this state since they duce larger yields than millet. For ne may be the better paying crop. the Siberian or German millets are ther early maturing sorts well anted for growing in this state and is a ready sale for good pure llet seed of these varieties.

periments for Control of the Bindweed. TenEyck and Director Professor

Webster of the Experiment Station have inspected the bindweed experiments which have been carried on during the last two years on the farm of Andrew W. Sander, near Victoria, Ellis county. The special fund for carrying on the work is now exhausted. However, Director Webster states that some work in this line will be continued in order to more fully determine the success of certain methods of control and eradication of this pest which have been suggested by Professor TenEyck's experiments. The following is a brief report of the work by Profes-

or TenEyck.

"The work on the Sander farm has been conducted mainly with the purpose of learning the best methods of controlling the bindweed on large inforted areas. Two general plans of fected areas. Two general plans of experiments have been undertaken, namely, (1) different cultural methods and (2) the use of smothering crops. Most of the cultural methods tried have failed to destroy the bind-weed or even check its growth. This is particularly true of ordinary field cultivation with cultivators, both on fallow land and where a crop was grown. Even frequent hoeing for one season did not destroy all the weeds. However, the thinner stand and more feeble growth of the weeds on this plot indicates that another season of such strenuous treatment may accomplish complete eradica-tion, however, is practical only for small areas.

'The only method of culture applicable to large areas which promises any great degree of control or destruction of the pest is very late fall or winter plowing. The plots which were plowed in November (no plowing was done later than November 20) showed a very scattering and feeble growth of bindweeds on

April 26, the date of inspection.
"The weeds were thinner and more feeble also on the unplowed land, which produced a crop of sowed cane or sowed Kafir last season, than they were on the untreated ground or on any of the plots cultivated in

intertilled crops. "The fewest in number and most feeble growth of weeds occurred where these two methods were combined, namely, after growing a crop of sowed cane which yielded two cut-

tings, nearly four tons of field cured hay per acre, this plot was plowed 6 inches deep on November 20. It was quite evident that almost any spring crop planted on this land would re-ceive little or no injury from bindweed. And it appears probable that if the smothering-crop late-plowing treatment were continued for two or three years in succession, the bindwoeds might be entirely destroyed. At the least, such treatment offers a method of control which may be successfully practised on large areas by which the bindweed may be held in check.
"It will not be possible to grow

wheat continuously and hold the bindweed in check, but a rotation of crops, growing wheat one year in three, and practising late fall and winter plowing, the writer believes that it is not only possible to control the bindweed, but the land may be made to produce a larger income than may now be se-cured from similar land free from bindweed, by continuous wheat grow-

ing.
"Again, experiments here and elsewhere indicate that alfalia and grasses may be started and grows

very successfully in the worst bindweed infested lands. And if this is true the farmers of the central west have little to fear from this weed if they will grow more alfalfa and prac-

tise better farming methods.
"It is important, however, that every means possible be used to prevent the further spread of these weeds. Care should be taken when an infested spot is found not to spread the contagion over the field by dragging the roots about with the plow or harrow. If a part of the field only is infected, divide the field and plow and crop the infected part separately.

"Again, avoid spreading the pest by scattering the seed in feed or seed grain. Fan and grade all seed grains so as to remove all foul weed seed. It has come to my attention that a certain firm in Ellis county has advertised for sale and shipped into several other counties seed wheat containing bindweed seed. There is no excuse for this because plenty of pure wheat may be obtained, or if the grain is infected, the weed seed may be readily removed by grading."

WHEELER'S ANSWERS

Fattening Rations for Heifers.

I am fattening a bunch of heifers for the market and am at a loss to know whether I am giving them a properly balanced ration. Am feeding per head as follows Corn chop 6 pounds, alfalfa-meal 4 pounds, oil cake 4 pounds, roughage, alfalfa hay. Can you tell me whether this is a proper ration?—W. A. Stauffer, Mar-

You failed to state the age of the heifers you are feeding, and likewise have omitted to state the prices of the various feeds which you are using. Without these facts it would be impossible to answer as definitely as if they were available. I presume your heifers are young, and assuming that in addition to the corn, alfalfa meal, and oil cake which you are giving them daily, they are eating at least 8 pounds of alfalfa. The nutritive ratio would be but 1:3.9. This is an exceptionally large amount of protein. In tionally large amount of protein. In fact, much more than is needed. Since the oil meal is the highest priced feed you are feeding and considering the fact that the alfalfa hay and the alfalfa meal both supply protein in considerable quantities, a cheaper ration would be made by leaving out the oil cake and feeding corn chop, or at least reducing the oil cake or meal to a pound daily instead of 4 pounds. If your alfalfa meal is costing you \$3 or \$4 per ton in excess of what the hay is worth, I would only use a sufficient quantity of it to lighten up the corn

Rye for Hay. How is rye, cut while the grain is in the dough, for hay to feed cattle and horses? - Frank Slater, Pleasanton,

Of the small cereals grown for hay or forage purposes rye is probably the least valuable. It is not absolutely lacking in value for feeding purposes and will make a fair quality of hay if cut early in the milk or dough stage. It seems to develop a considerable quantity of fiber very early in its growth and for that reason is not as prelatable to the animals as some of palatable to the animals as some of the other cereals. Oats and barley rank the highest in value as forage or

Alfalfa for Silage.

Would like to know if alfalfa, as it is mowed and without running it through a cutter, if dumped into any underground silo and weighted down with sand bags will keep. Will its food value be any greater and better for feeding swine and lambs in winter? Will there be any danger in feeding

such ensilage to lambs, western range lambs, such as are bought on the market during the fall?—W. L. Ross, Omaha, Neb.

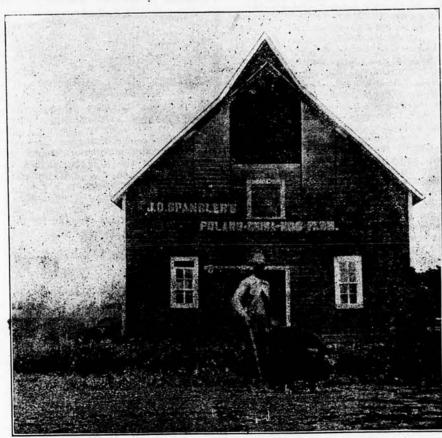
It would be possible to make silage successfully in an underground silo as you suggest but it has some very decided objections. In the first place, a silo should be fairly deep, 28 or 30 feet, in order to secure a considerable pressure for the purpose of excluding the air. It is an easy matter to get material into an underground silo but a very difficult task to get it out for feeding. This must become a regular chore once or twice a day through the whole feeding period. There is likewise another objection, due to the fact that poisonous gases are developed on top of the silage, making it unsafe for a man to go down into it. In the ordinary construction the opening of doors above the surface of the silage keeps the air pure so that there is no danger of this kind.

There is not much doubt but that the same materials well preserved in a silo are of more value than cured in the dry form. Silage is especially val-uable in the feeding of lambs and can constitute at least half of the total dry matter of the ration.

It is my opinion that you would find it more satisfactory to install a cutter if you plan to make silage on a very It will pack much more large scale. closely and be much more easily removed from the silo in feeding.

The only danger in feeding such ensilage to the lambs would be in feeding too much, just as green alfalfa may be eaten in excess and cause bloat. There is very little danger of the silage producing bloat if fed in reasonable quantities. For mature swine in the winter, alfalfa silage would be more valuable than the hay as it approaches more nearly the conditions of green alfalfa and would be very valuable in keeping the hogs in good healthy condition. It could hardly constitute the whole ration for hogs unless mature brood sows.

I would suggest that you write the Silver Mfg. Company, Salem, O., for their booklet on "Modern Silage Methods." This will give you a very complete discussion of the silo and silage.



J. D. Spangler, Sharon, Barber county, Kan., and his big Poland Chinas. See ad on another page.

UTILITARIAN EDUCATION.

education that qualifies for the activ-

ities and responsibilities of life. It

has been said that when one has learned to read he may have access

to all knowledge written in his tan-

guage. But knowledge has so greatly increased that no one person ever ac-

quires it all. In the great universities

many and divers subjects are taught,

but the instruction is by specialists

in the many departments of learning.

It has been said that a mastery of all

that is offered in some of these insti-

tutions would require a student's con-tinued application for 150 years. If

this is even approximately true the

student's necessity for selection, the

impossibility of mastering more than

a small fraction of the work offered,

is obvious. The fact that the univer-

sity studies do not include these of

the elementary grades or of the high school is not to be overlooked.

city schools includes eight years in the grades and four years in the high

school. The college or university work requires four years. If training

for one of the professions be added to

this. three or four more years will be

Summarizing we have. For the graded schools, 8 years; for the high school, 4 years; for the college or uni-

sional school 4 years, making a total

If, then, the child begin at six, have good health and no interruption, he

may complete a fairly full course of

In many of the discussions of the

present time various subjects of study

are strenuously urged as desirable ad-

ditions to those now taught in the

been introduced in many city schools

beginning with the primary and con-

tinuing into the high school. Enlarge-

ment of this has been advocated. In-

struction in agriculture, especially 'n

country schools, is strongly insisted upon. Courses of instruction for

teachers in agriculture are announced by some institutions in summer short

Evidently, if much additional work

is to be crowded into the school days

of young America, those days will have to be lengthened or some adjust-

The demand for the introduction of industrial subjects into the course of

study may have been due in part to

the fact that on graduation from

either high school or colleeg the youth

finds himself surprisingly unprepared for the activities of life. He is disap-

pointed at his inability to realize

quickly on the added power which he has believed he had been acquiring

and which he will, in all probability,

ucated person is estimated at about its true worth by the community, but

there is disappointment because of the

fact that in most cases years are re-

quired in which to realize upon ad-

the inquiry has been propounded whether it be not possible to so mod-ify courses of study as to retain the

culture advantages and at the same

time to equip the learner with ability

to realize quickly upon his added powers, possibly to develop his pow-ers so that he may apply them in

some branch of the world's work witn-

out having to begin to learn where the

unschooled man of affairs of his own

Among the attempts in a broad way

to provide an affirmative answer to

this inquiry the founding of the agri-

cultural colleges stands conspicuous.

The provisions of the Morrill act as

signed by Abraham Lincoln are very broad. The states have not been en-

tirely uniform in the success of their

attempts to comply with the spirit of

these provisions. Where the agricul-

tural college has not been made a de-

partment of a university strong in-

fluences have favored the introduc-

tion of university features in the col-

lege. For a long time it was impossi-

ble to man the agricultural colleges with qualified presidents and instruc-

tors except as they were drawn from

the older kind of colleges. Some of

these were able by abstract reasoning to realize that utilitarian education

age began several years ago.

It is, therefore, not surprising that

The superiority of the liberally ed-

find real as he learns to use it.

vantages of training.

courses new soon to open.

ment will have to be made.

years, and for the profes-

Industrial subjects have

required.

of 20 years.

schools.

schooling at 26.

The instruction in well organized

The trend of the times is towards

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KANSAS FARMER TORI

Published Weekly at 625 Jackson street, Topeka, Kan., by The Kansas Farmer Company.

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ADVERTISING RATES—25 cents per agate line, 14 lines to the inch. Announcements of reputable advertisors respectfully solicified No medical nor questionably worded advertising accepted. Ferms close Monday.

OUR GUARANTEE.—It is our belief that all advertisements in this paper are from re-liable persons or firms. To show that we are in earnest in protecting our subscribers we guarantee the trustworthiness of our adver-

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 seys. 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, vegotables, 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, not for publication, unless you desire it, but as an evidence of good faith. Address all communications to

KANSAS FARMER COMPANY,

Topeka, Kansas.

was the purpose of the agricultural colleges, but, able men as they were, they could not divest themselves of their university instincts and aspirations. Again, the agricultural col-leges with few exceptions were located at or in the close vicinity of towns having city aspirations. The desire of these towns was for universities rather than agricultural colleges and their influence harmonized with the instincts of the working force.

The agricultural college idea harmonizes, however, with the ever increasing common sense demand that education shall be useful and that school days must absorb less than half a life time. These colleges and their demand have produced educators whose training as well as their logic has shown them that cultural advantages may be derived from learning what one needs to know; that strenght may be developed by study that is concrete: that abstraction is not more educative than thought that is applied; that utilitarianism is to be cultivated and not despised. These modern educators are now found not only in the agricultural colleges but in the more advanced universities as

The rudimentary studies of necessity receive most of the attention of the pupils in the primary school. But the best high schools now provide several courses from which to select studies according to the use the pupil may have for knowledge and training of a particular kind. In the universities many optional courses are of-fered. In the more modern universities professional courses in great variety are provided. In many cases one of these is made a part of the regular four year course leading to a degree. Such a course well arranged. ably presented and carefully studied gives the student the broad culture needed by the citizen and fits him to enter upon his life career without the intervening incompetency which often embarrasses those who have devoted their attention solely to the socalled purely culture studies. Some of the greatest institutions provide a four year business course, several four-year professional courses, a four year agricultural course, etc. It is also permitted to select from several of these for a four year general course leading to the regular bachelor's dethe agricultural course receive full gree. Thus, at Cornell studies from the agricultural course receive full credit on the work of the Senior year. This recognition of the educational value of purely agricultural studies comes as a welcome endorsement of positions long maintained by some progressive thinkers in Kansas.

To serve their purposes best the agricultural colleges must remain considerably differentiated from all other schools. The students with whom they deal are the best in the world, but they come without the preliminary preparation of the majority of those who enter the universities or the other colleges. It is possible that this may be gradually changed by the development of the consolidated district schools, but for the present at least the agricultural colleges must provide for students who have not had high school privileges.

Whatever else the agricultural college may do, it must teach and teach well those branches needed by the young citizens who will become farmers, or who will devote their powers to some of the mechanic arts. Time is coming when there will be a pro-fession of agriculture as much as there are now professions of law, of medicine and of the ministry. is coming when the profession of agriculture will be one of the most honorable because requiring a greater range of exact knowledge, the exercise of more accurate observation and of keener judgment than are necessary in other professions. Time is coming when to hold a degree in agriculture will be most desirable.

The agricultural colleges ought to be proud of their title, proud of their chief purpose. The path of honor for them lies along the line of greatest proficiency in providing for the educational needs of those who are to direct the agricultural destinies of the country. To do this they must act upon the most advanced views of utilitarian education, not doubting that the acquisition of knowledge that can be used and the application of such knowledge develop symmetrical mental powers of greater value than can be acquired in any other way.

#### \* \* INVESTMENT OF SURPLUS IN-COME.

To find remunerative investments for accumulated surplus capital derived from the sale of products of Kansas farms is becoming an increasingly important problem. In many cases loans in the neighborhood are not to be had. On the contrary the would-be lender often meets a rejoinder in an offer of money at a low rate of interest. After the harvest, now soon to com he lence vestments will be greater than ever

To leave money long in the bank without interest is not a very attractive proposition. To invest in "gold bricks" or in other "slick" schemes is far worse. When an unusually pleasant talker appears with a proposal showing marvelous profits for the investor it will be well to take time to consider and to consult with one's banker before investing. True, the banker sometimes takes a "well baited hook" and is caught, so that he is not infallible as an adviser on finan-cial questions, but the old saying, Two heads are better than one, even if one is a sheep's head," is still true. It is not necessary in any case to determine which is the sheep's head, but it is not usually that of the man who

refuses to be rushed into an impor tant transaction.

Some farmers are investing in mu nicipal bonds, i. e., school district township, county, or city bonds. these are issued by Kansas municipal ities they are not taxable in this state. The interest rate is low, but they are generally safe.

There are industrial shares that are fairly good and reasonably safe. It is necessary, hewever, to scrutinize all such carefully with the aid of the banker.

Railroad shares and other securi-ties ought to be safe and profitable investments, but until the manipulation of their values shall be eliminated, by law or otherwise, small investors will

regard them with suspicion.

But there is another class of invest. ments that may safely be made and that will yield profitable returns. On almost every farm better fences, better gates, and better buildings may be made to reduce expenses, add to the income, and increase the satisfaction and pleasure of life on the farm. A good many farmers are remodeling and enlarging their residences. Not unlikely some will make their dwellings so big as to add unnecessarily to the labors of the housekeeping force. But the installation of the improvements known as "modern conven ments known as "modern conventiences" in the home is an investment that pays well in comfort and pleasure and lightens the labors of the wife and daughters. These modern con-veniences are not too expensive for the well-to-do farmer of today. An investment of \$150 to \$500 will cover the cost in almost any case, providing water, the appliances, keating plant, ventilation, and drainage, all of which are necessary. In remodeling any house or in building a new one, provi-sion for such improvements can be

Investments for the improvement of life are safer than stocks and bends, are more to be desired than added acres, and yield their returns every day. On the home farm is a good place to invest some of the surplus.

KANSAS AGRICULTURAL COLLEGE ON WHEELS.

In cooperation with the Santa Fe railread the Kansas State Agricultural College conducted a "school on wheels" last week. An exhibition car and two audience cars made up the special train which was equipped with a corps of lecturers from the college whose object was the dissemination of real, up-to-date information in regard to wheat raising. The route lay through the wheat belt and, in spite of the busy season, the train was met everywhere by large and enthusiastic crowds of farmers who were anxious to avail themselves of the unusual opportunity of having the Agricultural College brought to their doors. Everything pertaining to the choice of varieties, selection of seed, methods of sowing, harvesting and storing, rotation of crops and the in-sect and fungus enemies of wheat were discussed by the professors to the edification of the hearers.

In some portions of the territory covered, it was found that large areas that had formerly been devoted exclusively to wheat raising were now in corn and other crops because the land had grown "wheat sick." This rotation together with the introduction of the strong new varieties like the Kharkov, Malakof and Defiance will reinstate the wheat growing in dustry in many places.

The trip was managed by Superintendent J. H. Miller of the Farmers Institute and College Extension de partment as a part of his regular duties. The train was handled by Mr. R. E. Wilson, Traveling Industrial Commissioner of the Santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than whom there is a result of the santa Fe, than the santa Fe. whom there is no more capable man for such work. The lecturers were Director E. H. Webster of the Experiment Station, Prof. A. M. TenEyck of the agronomy department, Prof. T. J. Headlee and Geo. F. Freeman of the entomological department and Superintendent Miller who is always alert when the college or its growth is 'concerned.

The enterprise displayed by the college authorities in thus carrying 3 great fund of practical information to these thousands of farmers whose school days are over but whose de sire to learn has never abated is most

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commendable and is one of gany things that have served to make of the Kansas State Agricultural College the greatest of its kind.

SHOW FARMING.

The city man whose farming has been limited to rides through the country is in many cases certain that he can tell the tiller of the soil all about how he ought to proceed. When such a man traverses a region where 160 acres is considered about the

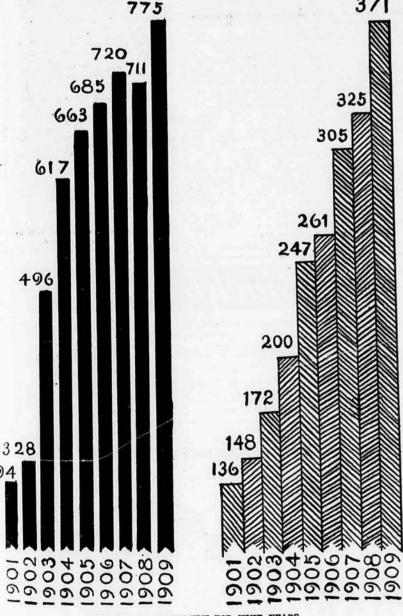
right area to receive the care and la bor of a man and several horses the city critic is disturbed at what to him seems wanton waste in corners and along fence rows, and he blames the farmer for shiftlessness in failing to save the vagrant heads of wheat which the reaper did not reach. Perhaps the city man did not know that Ben Franklin's proverb, "Time is money" is more applicable at harvest than at any other season, and that the time which he insists should have been

ANOTHER KANSAS CROP. when Secretary Coburn gets cut his next "Idyls of Kansas," with its ductive exhibit of "The Where "Wheat," "The Lay of the Helpful Hen," "The Hog's Happy Habitat," he should the prother chapter chapter. dd another chapter, chronicling a still more important crep, the educated boys and girls Kansas is raising.

Our country at large might almost Our country at large might almost be said not to believe in education much beyond the fourth grade, for three-quarters of all its children never see the fifth grade. We had a total population last year (1908) of over 87 million. Of this total, 19.8 per cent were in some elementary school, pub-lic or private. But as there was only 21.16 per cent of all our population in all schools, this leaves the depressing exhibit of only 1.36 per cent in attendance on any school higher han the eighth grade. Let us see this in actual numbers: in 1908 there were 17,373,852 elementary pupils,

But what about Kansas? Not so much better as we would wish, indeed, in our farm-world not enough better in our farm-world not enough better to point with pride to our growth. Still, we are gaining, and this should spur us to further exertions. The diagram accompanying this article graphically tells the story of nine years of college growth of the noble college at our state capital. Any school that can show such an uninterrupted increase may well be proud of the record. But we are warranted in its record. But we are warranted in taking this diagram as typical of a wider fact, the growth of all higher education in Kansas.

Let us keep to this same yard-stick of time, nine years. Nine years ago our State University had 474 students; it now has 2,063. Our Agricultural College had 594; it now has 2,192. Our high school attendance nine years ago was 15,000; it now stands above 23,000. Baker University had 124 true liberal arts students; it now has 387.



GROWTH OF WASHBURN FOR NINE YEARS.

TOTAL ATTENDANCE.

COLLEGE PROPER.

American high schools and academies together, or bare nine-hundredths of a per cent more than one pupil to every hundred people, i. e., one would have to pass 99.1 persons in a line before he would find so much as one boy who had tasted a high school. This is the average American fact.

If we go up to any higher schooling, as university and college, what are the facts? There are 149,700 in our liberal arts schools, but this is only 17-hundredths of one per cent of our 87 millions, and, indeed, only 8-tenths of one per cent of the youth we do send to some school.

If we shall add the 96,956 who attend some school of technology or a professional school we are adding only 52-hundredths of one per cent of our whole population. Does this look as though higher education is being over-

against this there were only 961,783 in Washburn had 136; it has 374. Ottawa from 36 to 125; Kansas Wesleyan from 22 to 68. Of course, these figures include only the "college proper" in each case, and not the total attendance of these colleges, thus: Baker has a total attendance of 780, Washburn 783, Ottawa 432.

There is in these showings no reason for the alarm which has been professed in some quarters least we are in this age "over educating." The power for usefulness, for leadership in the world's work, possessed by the thoroughly educated man or woman, the growing demand for the greatest possible competency, a demand which always exceeds the supply, admonish the young and their parents to such use of institutions of higher education as shall make their growth in the immediate future distance that of the recent past.

Why Different Priced Sewing Machines? What makes the difference in the prices of various sewing machines? Why is one make sold for \$18 and another for \$40 or more? They all look about the same—to the unpracticed eye. The demonstrator may do fairly good work on the cheapest one, but you cannot do the work of years on it.

Perhaps he tells you the club plan of selling makes it possible to reduce the price because more are sold. Perhaps he tells you that in the higher priced machine you pay for its name.

Now think it out for yourself. If the price could be lowered on account of the number sold, the Singer Sewing Machine would be the lowest priced in the world, because there are more Singers sold than all other makes put together.

You are not paying for a name when buying a Singer; you are paying for the merit that that name implies. How did the Singer get the name in the first implies. How did the Singer get the name in the first place? Why didn't some other machine get the name?

## Let us put a Singer in Your Home To try at Our Expense

This is a bona fide offer. We'll pay all expense incurred in getting it there. Try it out thoroughly on your regular work—sewing—or mending. If it is not all you hope to find it send it back at our expense. This costs you nothing, only a postal for our booklet, "A Wireless Message from the Singer Tower," which we send you to select a machine from according to

to select a machine from, according to the style you'd like and the price you'd like to pay if you buy. Remember, you are under no obligation to buy.

SINGER SEWING MACHINE COMPANY

Room No.1174Singer Building, New York

spent in saving a few quarts of scattering wheat in an out-of-the-way place was wisely used to save bushels that urgently needed attention.

As land becomes dearer more hands will be employed upon given areas, but at all times the city man should remember that farming must pay its way. While advances in farm management will bring waste places into use and will reduce the waste, yet strictly show farming is rarely remun-erative in dollars and cents however large the returns in satisfaction to the passerby.

\* \* CORN GROWERS HAVE CHANCE.

Any farmer will have a chance to win prizes at the next National Corn Exposition since the winners of the 1907 and 1908 sweepstakes have been eliminated from entering the regular classes. In addition to this the exposition will give no cash prize of \$1,000 to the winner of the Grand Champion sweepstakes—the grand premier trophy being considered sufficient reward together with the honor of winning the prize. Instead of the \$1,000 cash prize for the champion sweepstakes, three sweepstakes prizes have been arranged, giving one to each of the best ten ears of yellow, white, and other than yellow or white, which includes flint, red, and calico varieties.

These changes were decided on at a meeting of the executive commit-tee of the exposition and vice presidents of the National Corn Associa-tion, held in Omaha last week.

The management has also decided that all exhibits must be in Omaha

at the office of a transportation company or on the exposition grounds by November 27, ten days before the exposition opens. The 1909 exposition, which is to be held December 6 to 18, is to be an exposition that is "ready."

The guessers on the Kansas wheat crop present estimates varying through a wide range. Those who have heretofore been reasonably close to the mark place the aggregate at about eighty million bushels. There need be no surprise if this figure be found too low.

The closing exercises of the year's work at the Kansas State Agricultural College will be held June 13-17. This will include the graduation of the 1909 class of 134 young men and maidens. This great institution is engaged in a work whose usefulness to the state and nation is dependent upon the capability and wisdom of the management. The material at hand and the support which the state is ready to give are unsurpassed.

\* \* \*

In an extensive series of experiments with alfalfa, the Geneva, New York experiment station found that alfalfa will succeed without inoculation or lime about once out of five attempts on the soils of New York State; with lime and without inoculation, about twice out of five times; with inoculation and without lime about three times out of five, and with both inoculation and lime about four times out of five.

# Readers Market Place

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. latetar a commence de la latera de la commence de l

#### 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 OR-ders 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, merchandise or other property. We have 500 propositions te choose from. Graham Bros, Eldorado, Kan.

#### SWINE.

BERKSHIRE SOARS FOR SALE—FROM 125 lbs. to 250 lbs. of Masterpiece and Lord Premier breeding. G. 19. Willems, Inman,

POLAND CHINA BOAR, FANCY U. C. by U. C. Perfection, bred by W. J. Honeyman. Farrowed July 8, 1908. A guaranteed breeder and first class individual. G. H. Randolph, Emporia, Kar.

#### DOGS.

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

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

SCOTCH COLLIES—PUPS AND YOUNG dogs from the best blood in Scotland and America now for sale. All of my breed 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. 260 head sold last year. Write for illustrated circular and prices. Would like to buy a few ferrets. Address Harvey's Dog Farm, Clay Center, Neb.

#### POULTRY.

BUFF ROCK HENS \$1 to \$2; EGGS, 18, 75c; 45, \$2. W. A. Hilands, Culver, Kan.

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

HOUDANS—AMERICAN AND ENGLISH strains. Eggs fer 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.

BARRED ROCKS—EXTRA FINE SPRING cockerels and breeding pens at half price. Circulars. A. H. Duff, Larned, Kan.

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

RHODE ISLAND REDS—WINNERS OF 40 premiums at State Show. Send for egg circular. R. B. Steele, Topeka, Kan.

PURE S. C. BROWN LEGHORN EGGS— From the best laying strains, \$1 for 30, \$3 per 100. A. G. Dorr, Osage City, Kan.

WHITE PLYMOUTH ROCKS EXCLU-sively, large birds, good layers, farm range. Eggs \$4 per 109, \$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 oppertunity to get an absolutely new one at a special price. Write
quick. Address A. Turner, care Kansas
Fermer Toronte Verner, care Kansas Farmer, Topeka, Kan

#### CATTLE.

SEE LESLIE OF ALYSDALE BY PRINCE Censert, out of Lord Mayer dam, calved May 8, 1995. 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 e. W. Merriam, Columbian Bldg.,

# The Stray List.

W. H. Shaffer, County Clerk,
Taken up on the 3d day of May, A. D.
1909, by J. G. Johnson, Garden Twp., Cherokee 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 recow, weight about 800 lbs.; valued at \$30.

#### 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 CULtivated, balance pasture. Abundantly water-ed. Price \$8,900. G. H. Johns, Vine, Kan.

150 QUARTERS, \$6 TO \$20 PER ACRE; smooth and rich; Meade, Seward and Haskell counties. McConnell, Plains, Meade county, Kan.

TO TRADE FOR WESTERN LAND— Eight room house in good condition, fine hade, in Salina. Wight & Dodge, Salina,

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, Offerla Kan Offerle, Kan. WEILL IMPROVED RANCH OF 1,000 acres, near station, an abundance of water and good feed lots. Send for full and complete description. Price \$30 per acre. Hurley

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FOR SALE—476 ACRES GOOD LEVEL land, 370 acres under cultivation, balance in pasture, all fenced, good 8 room house, granary and small barn, good water, close to school, 3½ miles from county seat. For further information address Box 391, Kinsley. Kan.

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 Alien Centry Investment Co., Longton, East.

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.

IMMEDIATE POSSESSION—80 ACRES, 15 bottom, 65 cultivated, 15 pasture, new 5-room house, outbuildings, good water, 50 acres of wheat, half goes. Price \$3,000. All kinds and sizes. Write for lists. Garrison & Studebaker, Salina, Kan.

If you want one to four quarters good land, well located, good neighborhood, telephone, daily mail, eight miles from Fowler, Meade Co., suitable for corn, wheat, alfalfa, all tillable, no imprevements, twenty to thirty dollars per acre, write Owser, Box 83, Fewler, Kan. FAMOUS CROOKED CREEK VALLEY-

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WANTED—FARMERS TO TRY OUR Binder Tengue Supperts which takes off the weight from the horses' necks. Price \$2.75 each. Wenzelmann Mfg. Co., Galesburg, Ill.

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GENUINE BARGAINS IN HIGH-GRADE GENUINE BARGAINS IN HIGH-GRADE upright planos. Slightly used instruments: 12 Steinways from \$350 up; 6 Webers from 250 up; 9 Krakauers from \$250 up; 7 Knabes from \$250 up; 3 Chickerings from \$250 up; also ordinary second-hand uprights \$75 up; also 10 very fine parlor grand planos at about half. Write for full particulars. Cash or easy monthly payments. Lyen & Healy, 62 Adams St., Chicago. We ship everywhere on approval.

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490 ACRES meadow land nicely located, well fenced with 4 wires, all lies in a body, and can be used for pasture. Within 40 rods of switch on Mo. Pac. R. R. Could be divided into a nice farm and is a bargain at \$30 per acre. C. R. CANTRALL, Fredonia, Kan.

90 ACRES OF CREEK BOTTOM and upland, 75 acres in cultivation, balance meadow, no other improvements, 3 miles from town. Price \$3,800. A snap, as 40 acres of it is fine alfalfa ground.

J. S. BOYLE,

Bennington,

Kansas.

MoPHERSON COUNTY, cres, 3½ miles Salina, all in cultiva-\$4,500.

tion. \$ \$4,500.

acres in Saline county, 80 in cultiva-all fenced, fair improvements, ½ mile ol and church. \$25 per acre. WM. KINDT, Marquette, Kan.

#### TETON VALLEY, IDAHO,

has more natural advantages than any other irrigated land in United States, See it. Perpetual paid water rights; perfect titles and abstract; easy terms; new railroad; delightful climate; carfare refunded to actual purchasers in June of July. Call at our office. IDAHO LAND AND LOAN COMPANY, St. Anthony, Idaho.

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Two choice farms, one of them 160 acres, well fenced and cross fenced, 40 acres tame grass and alfalfa, nice house, fine water, all in cultivation, fine soil, close to town.

Eighty acres, well fenced and cross fenced, all hog tight; 20 acres timothy and clover; plenty of buildings, limestone soil, close to station. Price each \$45 per acre. Easy terms. Call on or address

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150 acres improved bottom land, 40 acres in wheat, 70 in corn. balance in pasture; one-third crop goes with place. Price \$9,000, 160 acres 2 miles from town, well improved, 50 acres in wheat, 60 in corn, some alfalfa, balance pasture. Price \$12,500. S0 acres, all in cultivation. all in wheat; one-third goes with place. Price \$5,000

CHARLES PETERSON. Hutchinson,

Western State Fairs and Live Stock Show for 1909.
Blue Grass Fair, Lexington, Ky., Aug. 3 Aug. 14. Iowa State Fair, Des Moines, Aug. 27-Sept 3. Ohio State Fair, Columbus, Aug. 30-Sept. 1 Michigan State Fair, Detroit, Sept. 2-Sept. Indiana State Fair, Indianapolis, Sept. Sept. 10. Nebraska State Fair, Lincoln. Sept. 6-Sept. Minnesota State Fair, Hamline, Sept. 6. Sept. 11. Kansas State Fair, Hutchinson, Sept. 11. Sept. 17. Interstate Fair, Denver, Colo., Sept. 12-Sept. 18.
West Michigan State Fair, Grand Rapids, Sept. 13-Sept. 17.
Wisconsin State Fair, Milwaukee, Sept. 13.
Sept. 17.
South Dakota State Fair, Huron, Sept. 12.
Sept. 18.
Kansas State Exposition, Topeka, Sept. 12.
Sept. 18.
Interstate Fair, Bozemont, Mont., Sept. 12.
Sept. 18.
Kentucky State Fair, Louisville, Sept. 12.
Sept. 18.
Tennessee State Fair, Nashville, Sept. 29.
Sept. 18.
Tennessee State Fair, Nashville, Sept. 29.

Sept. 18.
Tennessee State Fair, Nashville, Sept. 29.
Sept. 25.
Interstate Live Stock and Horse Show Co,
So. St. Joseph, Mo., Sept. 30-Sept. 25.
Interstate Live Stock Fair, Sloux City, Ia,
Sept. 20-Sept. 26.
Illinois State Fair, Springfield, Sept. 27.
Oct. 2.

Alaska-Yukon-Pacific Exposition, Live Stock Show, Seattle, Wash., Sept. 27. Wyoming State Fair, Douglas, Sept. 28-Oct.

Montana State Fair, Helena, Sept. 29-Oct. 2 Oklahoma State Fair, Oklahoma City, Sept. 29-Oct. 8. Missouri State Fair, Sedalia, Oct. 4-Oct. 8. Utah State Fair, Salt Lake City, Oct. 4.

Oct. 9.

Tristate Fair, Memphis, Tenn., Oct. 5-Oct. 14.

American Royal Live Stock Show, Kansas City, Mo., Oct. 11-Oct. 16.

Texas State Fair, Dallas, Oct. 16-Oct. 31.

National Corn Exposition, Omaha, Neb., Dec. 6-Dec. 18.

Hereford Cattle Judges.

Hereford Cattle Judges.

On behalf of the American Hereford Cattle Breeders' Association secretary C. R.
Thomas announces the selection of the following named judges of exhibits of Hereford cattle at the American Royal show at Kansas City October 16-21: S. W. Anderson, Blaker Mills, W. Va.; Thomas Mortimer, Madison, Neb., and H. C. Duncan, Osborne, Mo. As Hereford Judges at the International show at Chicago in December: T. J. Wornall, Liberty, Mo.; Robert Mousel, Cambridge, Neb., and Ed Taylor, Fremont, Mich.



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Our Daisy SELF.
THREADING, selffeeding one-horse hay
press only one on which ORSE THREADING, self-feeding one-horse hay press only one on which one man can do only the work. First successful self-

Successful self-threading dethreading decondenser increases results. Open side hopper.
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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 on this or a separate sheet of paper. Free to the persons sending correct solutions to this puzzle we will give absolutely free of charge the latest Parisian craze, a Mocking Bird Whistle, which will furnish amusement and pleasure to both children and adu. S. Also credit orders given to the amount of \$40, good as part payment on purchase of a plano. Only one answer from a family will be counted. Winners will be notified by mail. All answers must be mailed by June 18th, 1909, with your name and address plainly written. plainly written. E. B. GUILD MUSIC CO., 722 Kansas Ave., Topeka, Kan.

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SPECIAL BARGAINS—80 acres 3 miles from Clyde, second bottom, \$50 per acre. 160 acres near Green in Clay Ce., 90 under plow, well impreved, \$50 per acre. 160 acres pasture near town, \$3,590. Write for fine large list. WALTER NELSON, Clyde, Kan.

COMPLETE DESCRIPTION Texas Panhandle, covers 25 years, 32 pp., complete, 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.

220 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 B. A. HENRY,

The Real Estate Man,

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Kansas,

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

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HERE IS A SNAP—160 acres, creek bettorn farm, well located, does not overflow, all cultivated except 10 acres pasture, good 7 room house, cellar and outbuildings good, barn for 8 herses, corn, alfairs, wheat and English blue grass new on farm. All goes up to June 1 for \$7,500. Write me quick. C. B. CANTRALL, Fredonia, Kan.

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Choice half section, well improved, school, mail, town, 8 miles Erzporia \$60.
Photes sent. A choice 80, \$5,000. 163 near town, \$53. Send for list.
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FARMS FOR SALE in South Missouri. I have several good forms for sale an easy payments from \$5.00 to \$10.00 an acre. Please write me for full particulars.

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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 \$17.56 per acre.
Terms can be arranged on part, at 7 per
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C. L. WELLS, Kansas.

LARGE TRACT OF LAND—If you are lecking 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 zeros. Practically all farm land, 2,000 acros in cultivation, 800 in wheat, all goes with land, 800 to corn one-fourth goes, 200 acros new in alfalfa, 1,000 acros of alfalfa land, 30 miles of three wire fence, soil black leam, six room house, barn for 15 head of stock, 4,000 bu granary, only 8 miles from good market. Price 321 per acre, terms on 365, 300. 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 meney bags being hauled in by a single farmer. Thrashing and hauling a single farmer. Thrashing and hauling a single farmer in the same day. We have other propositions that will beat your best; besides, the best 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,

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 femce, plenty of water, 600 acres fine bettem land, suitable to grow alfalfa; the improvements, stone house, barn 5025, 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 Stockten, 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,

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WASHINGTON COUNTY LAND FOR sale—Two hundred acres 4 miles from good town, 70 acres wheat, 5 room frame house, new barn 30x60, granaries, cribs, etc. All under fence. Price \$45 per acre. Very easy terms. W. J. GORDON, Washington, Kan.

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If you are lecking for an investment in land that is sure to increase in value 25 per cent in the next six months you can get it by seeing er writing
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HODGEMAN COUNTY LANDS.
Map, boeklet, new list and general information sent premptly on request. Cheapest farms, quality considered in the state.
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The Land Man, of Herington, Kansas,
is offering a section of land with two sets of
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for \$45 per acre. 200 acres under cultivation.
A snap well worth \$50 per acre.

A SPRCIAL BARGAIN.
From owner, square section wheat land in Logan county, Kan., 6½ miles from staties, 4 mile from shool house. Can about all be cultivated. Will sell right and give terms. Address R. H. NUNN, Ness City,

GOOD FARM CHEAP—160 acres, 130 in cultivation, all fenced, 3 room house, barn, cow shed, poultry house and well and windmill, 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 palance. 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,
Frankfort,
Kansas.

A NESS COUNTY BARGAIN.—220 acres miles from Ness City, 3 room hvuss, ame barn, well and windmill. Some very cod alfaifa land. Price \$15 per acre. Call r address.

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

J. S. BOYLE, Bennington, Kansas

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In the fameus Arkansas Valley of Colorado and the Pecos Valley of Texas, reanable prices; good terms. If you want a may making investment or an ideal home write for further information.

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

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160 acres, 3½ miles of Spearville, 75 acres
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frame house, stable, chicken house, smoke
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SCHUTTE & SHIMEY, the Rush county, Kan., real estate huatlers; 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 320 to \$35 per acre. Good impreved ranch land, ½ good farm land, at \$15 per acre. Good bottom land not ever 5 miles from market at \$25 to \$35 per acre. Well impreved and running water, plenty of timber. See us er write us at La Crosse, Kan.

FOR SALE—\$20 acres of good wheat land in the famous wheat belt of Legan Co., Kan. 4 miles from Monument, and 8 miles from Page.

40 acres in cultivation. Purchaser to assume R. R. contract for about \$1,760. This is a sun.

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Beloit. W. H. LINVILLE, Kansas

ARE YOU LOOKING FOR A HOME?

No farmer should think of buying a home before seeing a cepy of THH FARM AND REAL ESTATE JOURNAL. It contains the largest list of farm lands, city preperty and stocks of goods of any paper published west of Chicago. It reaches \$6,000 readers each issue, \$5 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 insertit. Send 75c and we will mail yeu the Journal for one war as for 15e in silver or stamps we will 75c and we will mail you the Journal for one year, or for 15c in sliver or stamps we will send it for two months on trial and step it at the end of the two months unless you renew your subscription. FARM AND REAL ESTATE J. URNAL, TRAER, IOWA.

DODGE CITY AND FORD COUNTY to the front. For sale, 640 acres of good, smooth, rich, productive wheat land, 6 miles from Dodge City, 200 acres in cultivation. Price \$16.50, one-third of wheat to the purchaser Have for sale 3,000 acres of improved and unimproved land near new Catholic church at Wright station, 6 miles east from Dodge City. This is good land, ranging in price from \$20 to \$30 per acre. Cooperation solicited. Price list furnished upon application.

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160 acres 6 miles of county seat, 100 acres in cultivation, 90 acres in wheat, one-third goes with place, 5 room house, good water, all fenced; a bargain. Price \$36 per acre. \$0 acres 3 miles of town, all but about 3 acres can be plowed, all fenced, no other improvements. Price \$37.50. These are dandles. Other bargains CARL G. ANDERSON, Athol, Kansas.



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

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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.

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

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# Ozark Fruit Farm For Sale.

130 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 frem town. Geoff reason for selling. Price \$1,090. Write me for full particulars.

JOHN D. BAKER,
Ava, Douglas County, Missouri.

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., Wichita, Kan.

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The cream of the Pecos Valley. Now epen. All river-front sections. The best alfalfa and fruit lands in America. Sold in 40-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, 50 cents per acre as first payment. Address

THE HEATH COMPANY. Topeka, Kan 109 West Seventh St.

#### Buy Western Kansas Land.

Should you want to buy any western Kansas land for speculation of fer a home, den'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,

ONE OF THE BEST LAND BARGAINS EVER OFFERED IN EASTERN KANSAS.

EVER OFFERED IN EASTERN

This is a square section of land situated near the county line of Bourbon and Allen counties and 4 miles from the fine town of Bronson and 7 miles from Moran. One quarter section of this ranch is under plow and is used for growing corn and the small grains and the bal. of this tract is in pasture—bluegrass and white clover—and there is no better pasture lands in any section of any state than this. While this pasture tract is somewhat rolling there is no lands that grows more grass per acre than does this and in addition to the fine bluegrass and white clover there is a never failing supply of good clear water by a small creek which is fed by springs and along this creek there is enough young timber for shade for the stock. The fencing on this farm is of wire and is good there is a 6 room two story residence and a very good barn with the other necessary out-buildings. A small bearing orchard. The drive from this ranch to Bronson is as fine as can be found in Eastern Kansas. This fine ranch which is the property of an estate is priced for the next innety days for the very low sum of \$30 per acre. For additional description of this and special description of other lands in this section write SMITH & WILSON, Agents at Moran, Kansas.

\$100 REWARD for every farm you can find where we have sold above the owner's price. Call on us or send for new list of land. \$5 an acre up.

G. N. DAVIS & CO.,

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#### 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

#### ROOKS COUNTY LAND

One Hundred Farms for Sale. Write for Lists.

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

GOOD BARGAINS.

\$20 acres 3 miles from town, all cultivatable, 250 acres now under cultivation or in tame grass, 70 acres pasture, abunance of water, 2 story 9 room house, barn and other outbuildings, orchard and other small fruits.

Price \$10,000.00.

160 acres, 2½ miles from town, 100 acres in cultivation, 30 acres clover and timothy, 70 acres corn, 60 acres pasture, abundance of water, good 6 room house, new 2 story barn 36x36, other outbuildings, good orchard. Crop and all goes for \$4,800.00. Come at once or write for particulars.

DONOHUE & WALLINGFORD, Manass.

Mound Valley,

IFirst yublished in Kansas Farmer May 28, 1909.]

Notice of Appointment,
State of Kansas, Shawnee county, ss.
In the matter of the estate of Marous O.
Frost, late of Shawnee county, Kan.
Notice is hereby given that on the 18th day of May A. D. 1909, the undersigned was, by the probate ceurt of Shawnee county, Kan., duly appointed exerutrix of the estate of Marous O. Frost, late of Shawnee county, deceased. All parties interested in said estate will take notice and govern themseives accordingly

MATTIE E. PROST,
P. H. CONEY,

Rescutrix.

P. H. CONEY, Attorney.

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We want men to travel in the country and take subscriptions. 19 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 as well recommended. We can give you good territory in which to wors anywhere in Kansas, or you can take your horse and rig, or bicy-iand canvass in your own commus

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Write for full particulars to circulation department.

KANSAS FARMER

Topeka, Kansas.

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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 noth-

Send us \$1.00 for a new or renewal sub-scription to Kansas Farmer for one year and the strap complete will be sent you abso-lutely free and postage paid. Address KAN-SAS FARMER, Topeka, Kan.

When writing advertisers please mention Kansas Farmer.

# LIVE STOCK



There are 10 commandments which must be obeyed in building good roads and 9 of them are "Drain the

Prof. J. C. Kendall of the department of Dairy Husbandry of the Kansas Agricultural College went to Jerseyville and Vandalia, Ill., last week to attend the Jersey Cattle and possibly to buy some cattle for the college herds.

Owing to the shortage reports in cattle from all over the range country the feeders of the corn belt ought to make a nice lot of money this season. Range cattle have cut down the profits of the feeders for many years and it now looks like the feeders would have their turn.

Texas cattle moved into Oklahoma pastures number about 25 per cent less than last year while Kansas pastures have their full quota. The latter, however, came in very thin be-cause of the drought. They are also very young. This means a big feed-er movement later on.

The crop killers are always with us. In addition to killing off the wheat and corn crops they are now busy with the pigs. They say there is a short crop on pigs all over the country. This may be true but at present and prospective prices of pork it will pay to look well after the comfort of the brood sow and the welfare of the voungsters.

Secretary A. L. Sponsler of the Hutchinson State Fair reports the division and sale of the fair grounds and the purchase of another and much more desirable site immediately north. Under the management of Secretary Sponsler this fair has made a steady growth and now has a handsome cash surplus on hand. Clean fairs will pay and nothing else goes in

The State Wide Fair now has better prospects than ever. Secretary, R. T. Kreipe announces extensive improvements in the immediate future. These include an extensive sewage system and the erection of a new and larger swine barn. Topeka has always pleased the breeders in the way their interest have been cared for and this new swine barn will meet the approval of the hog men.

Every man who owns a horse is interested in good roads. Every good road prolongs the life and usefulness

HORSE OWNERS! USE CAUSTIC BALSAM. A safe, speedy and positive curs.
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of both the horse and the vehicle. yet, there are but very few men who know how to build a road and the road problem is a very serious and important one. Until we know how to build a permanent road the one thing to do is to drain the dirt roads we have, then grade them to turn water quickly, build permanent culverts and bridges and use the road drag When we have done this we have greatly improved our present condition, increased the value of our property and made ready for a permanent road if we want one.

Two records were broken on the Chicago sheep market on May 25. Colorado-fed wool lambs sold at \$9.65 which was 15 cents higher than the price of the preceding day and the record price for this class at that mar-ket. The other record was broken when shorn lambs sold at \$8.80 which was 20 cents higher than the price of the preceeding day and 10 cents higher than was ever realized before on the Chicago market. Fat wethers sold at \$6.80 on a strong market and our informant states that the market is still going up with the top not in sight. Prospects are good for a continued rise though this may be confined to high dressing stock.

A subscriber complains that he has, as yet, been unable to make a success of raising calves on skim-milk. He states that he has been liberal in feeding and that he has skim-milk. His ration is not balanced. His use of bran with skim-milk gives the calf a double dose of protein and a lack of the starchy, foods, thus probably increasing his trouble. The best bunch of skim-milk calves the writer ever saw were raised on skim milk and kaffir corn with a little blood meal occasionally to prevent scours. Bran has too much crude fiber and is difficult to digest. Skim-milk and cornmeal makes an excellent ration.

"Nobody Knows How to Feed a Hog."
Prof. Wm. Dietrich, swine specialist of the University of Illinois made the statement which heads this article in a speech before the Illinois Live Stock Breeders Association at a recent meeting. As Prof. Dietrich has experimented with more than 400 pigs in 7 feeding experiments and 7 digestion experiments since 1904 his ideas are worthy of attention. Prof. Dietrich has recently issued a

little pamphlet describing his investigations, and the following ideas are taken from it:

The appetite of the pig is not always a safe guide as to the amount of feed that may be consumed to the pest ad-Under five or six months of age he will eat too much of a concentrated food, and above that age he will eat too little. These tests These tests show that pigs may be induced to sat 14 per cent more feed for the six

months, than pigs otherwise fed. During the second month of a pig's life it should have a thin slop so that it will get enough water and not an excess of nutrients.

It was found that maximum gains are produced at a minimum cost by starting the pig on approximately six tenths of a pound of digestible crude protein per day per 100 pounds live weight, increasing the quantity to seven tenths during the first seven weeks, decreasing to six tenths the following four weeks, and then feeding sixty-five pound during the last seven weeks of the growing period. During the first four weeks of the fattening stage this is reduced to approximately thirty-three pounds which is fed till the (Larger or less amounts of close. protein failed of the best results, and the apparent reasons are given.)

In the last experiment of the series it was apparently observed that a definate amount of water in a ration has an important bearing on the extent and the economy of gains made When pigs free access to water they apparently drink too much during the hot days of summer and do not drink enough in winter.

Prof. Dietrich suggests the following approximate ration, as coming somewhere near his more exact method. The figures stand for pounds of feed per day per 100 pounds live weight of the pig, and are for the second, third, fourth, fifth, sixth, seventh and eight months of its life, respectively:

Finely ground corn, 2.6, 2.8, 3, 3.2, 3.3, 3, 2.6, Soy bean meal, ground fine, .8, .9, 1,

.6, .8, .4, .4. Skim milk, 6, 6, 6, 6, 6, 0, 0 Water, 6.6, 5.1, 3.8, 2.6, 1.4, 5.5, 4. SUBSTITUTES

If corn is not available, rye, barley, wheat, rice, etc., may be used instead. If soy-beans are not at hand, peas may be used but the quantity must be increased as peas do not contain as much protein. This would also increase the carbohydrate, hence the corn would have to be correspondingly decreased. Or these may be left out and more skim-milk added. Some of the protein may also be supplied in the form of clover or alfalfa. If skimmilk is not available more of some other nitrogenous feed may be supplied and also more water as milk is 85 to 90 per cent water.

CLOVER MORE THAN DOUBLED RESULTS. By giving pigs access to a clover pasture in addition to ground corn, water and mineral matter during the first half of a six months-feeding period, they made 2.7 times as much gain in live weight as was made by the pigs that had ground corn, water and mineral matter but no clover.

By feeding pigs a bulky ration during the early part of their life when their capacity for eating feed is greater than their ability to utilize the digested material, the appetite may be satisfied, the digestible nutrients held down to the proper point, and the capacity largely retained. Later, substitutes concentrates for bulky foods.

IMPORTANCE OF VARIETY: A ration for maximum efficiency should also be well provided with variety, that is, it should contain a large number of feeds rather than only two or three. The greater the number of feeds in a ration, the greater will be the probability of supplying what the pigs need.

Question of Type a Local Issue.

There seems to be a lack of understanding among farmers as to the real purpose of the breeders of the big type of hogs. Breeders of all breeds of hogs in the corn belt are laying great stress on the fact that they breed the "big type" and this fact is held out as an inducement to buyers. They do not always, however, make it just clear why the "big type" is of superior worth. Breeders of the big type do not have in mind the production of a 1000 h more test. the production of a 1,000-lb. market hog at three years of age but they do have in mind an early maturing, rapid growing type which will weigh 250 pounds, or better, at eight months and which will attain the greater weight at full age if desired. To accomplish this result the hog must have quality whether he be of the "big type" or the "medium type" as without this no hog will finish properly at that age. Thus far the question of type seems to be a local issue. Western handless in the core belt included as breeders in the corn belt incline largely toward the big type while those east of the river, especially among the Poland China men, prefer the medium type.

It is now proposed that these dif-ferences be settled in the breeding show at the American Royal and the barrow show at the International.



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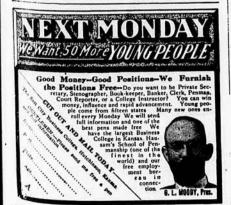
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Seven Per Cent of Roads Good. There are over 2,100,000 miles of wagon roads in the United States. The average cost of hauling farm produce over these roads is 25 cents a mile per ton, against 12 cents a mile per ton in France. The calculation is made by the office of public roads of the Department of Agriculture, that if our roads averaged up with those of France we would be gainers by over \$300,000,000 annually. Only 150,000 miles, or about 7 per cent of American roads are "improved," however, this figure is constantly increasing, more rapidly each year, and much of such improvement is permanent, while the time-honored methods of plowing up dirt roads and nearly ruining them each year in the name of improvement are giving way to more enlightened methods of treatment, such, for instance, as the use of the split-log drag. The Department of Agriculture wishes to get into communication with any community which is ambitious to have better roads.

How He Cultivates His Corn.

A Nebraska farmer gives the fol-lowing directions for cultivating corn: "Do it in such a manner as to retain the greatest amount of moisture pos-sible; then you will be able to raise a good crop even if the season should be a dry one. Make the first cultiva-tion deep; after that plow shallow. Always leave the ground as near level as possible. The more rolling the land more important it is to give a level cultivation. We always have a dry spell during the growing season, and hence the importance of level cultivation, especially when you are laying the crop by. If the ground is level the water will stay right in the corn. If you throw the dirt up to the rows making the soil from four to six inches higher in the rows than between them, the rain is almost entirely shut away from the corn. A small rain cannot soak down to the roots, and a big rain or a heavy shower under such conditions will gather in the middle of the rows and run off the fields, and your corn will be suffering for lack of moisture almost as soon as the rain is over."

Value of Rape For Sheep Pasture.

Professor Wheeler answers W. M. Rhodes, Long Island Kan. inquiry regarding the value of rape for sheep pasture as follows: Rape has been considered one of the best catch crops which can be sown for sheep pasture. The first experiment tests made in this country were in Ontario where an acre of rape furnished feed large enough to make the rape worth \$16.80 per acre.

Another experiment by the same station reports one acre pasturing 27 head for a period of 25 days, weekly gains per head being 1.82 pounds.

The Michigan station produced 202 pounds of gain in seven weeks on nine lambs pastured on one acre. Wisconsin reports gains of 13 pounds per month on rape pasture with a full grain ration. They likewise report as a result of their feeding experiment with rape that it has a value of from \$14.48 to \$20.00 per acre, depending upon the season, somewhat. The Wisconsin station also shows that larger gains were made where other pasture was available in connecction with the rape, the gains being made where this pasture consisted of bluegrass.

There is some danger of rape bloating sheep and it likewise tends to produce too laxative a condition where it is exclusive feed consumed. For that reason it would be advisable to have some other roughage available which would tend to counteract these tendencies. There is probably no one single forage crop that would have a greater value than rape unless we except alfalfa which is quite dangerous to us as an exclusive pasture crop for sheep owing to its tendency to produce bad cases of bloat.

Heavy Horses for Uncle Sam.

Specifications for artillery horses, prepared under direction of the Quartermaster General.

The artillery horse must be sound, well bred, of a superior class, and have quality; of a kind disposition, well broken to harness, and gentle under the saddle; with easy mouth and gaits, and free and prompt in the walk, trot, and gallop; free from vicious habits; without material blemish or defect, and otherwise conform to the following descriptions:

A gelding of uniform and hardy color, in good condition; from 5 to 8 years old; weighing from 1,050 pounds,

minimum weight for leaders, to 1,200, maximum weight for wheelers, de-pending on height, which should be from 15.1 to 16 hands.

Head—Small and well set on neck; with ears small, thin, neat, and erect; forehead broad and full; eyes large, prominent and mild, with well developed brow and fine eyelid; vision perfect in every respect; muzzle small and fine; mouth deep; lips thin and firmly compressed; nostrils large and fine, and branches of under-jaw, adjoining neck, wide apart.

Neck-Moderately long and tapering toward the head, with crest firm and longer than underside; mane fine and

Withers-Elevated, not unduly fine,

well developed and muscled. Shoulders—Long, oblique, well packed with muscle, not too heavy, smooth, rounded, and so formed as properly to support the collar.

Chest — High, wide, very deep; plump in front, and full.

Fore Legs-Vertical, and properly placed; with elbow large, long, prominent, clear of chest, and well placed; forearm wide, thick, long, heavily muscled, and vertical.

Knees-Neatly outlined, large, prominnent, wide in front, well situated, and well directed.

Back-Short, straight, and well muscled.

Loins-Broad, straight, very short and muscularo.

Barrel-Large, increasing in size toward flanks, with ribs well arched and definitely separated.

Hind Quarters-Wide, thick, very long, full, heavily muscled, rounded externally, and well directed.

Tail-Fine and intact; well carried and firm.

Hocks-Neatly outlined, lean, large wide from front to rear, and well di-

Limbs-From knees and hocks downward vertical, short, wide laterally, with tendons and ligaments standing well out from bone and distinctly\_defined.

Pasterns—Strong, medium length, not too oblique, and well directed.

Feet - Medium size, circular shape, sound; with horn dark, smooth, and of fine texture; sole moderately concave, and frog well developed, sound, firm, large, elastic, and healthy. Each horse will be subject to a rigid

inspection and any animal that does meet the above requirements should be rejected.

Extortionate Prices for Catalpa Seedlings.

Will you please make public the fact that some tree peddlers, representing Eastern nurseries, are imposing upon Kansas farmers by selling them hardy catalpa seedlings at \$25 per 1,000? While the catalpa is one of the most valuable trees for Kansas planters who have good, rich soil, this price is

too high. Kansas nurseries have, for the last few years, been making special efforts to secure good, pure seed, and good seedings have been quoted at from \$3 to \$5 per 1,000.

Kansas tree planters have suffered a great deal of loss because of the careless gathering of seed. Seed of the Southern catalpa and hybrids was planted extensively and seld as Ca-talpa Speciosa. In 1902, the Experiment Station issued a bulletin on catalpa which devoted considerable space to the means of identifying the various species. And during the past few years numerous specimens of seed have been submitted to the experiment station for identification. The best nurserymen of the state have been making strenuous efforts to secure seed from only good trees of the pure Speciosa.

Seedling trees are easily grown by planting the seed after the ground is well warmed, from the middle to the last of May, in well prepared soil. The seeds are wafer-like and must not be covered deeply. The nurserymen of Kansas grow them in large quantities, and they are considered a profitable nursery crop at \$3 to \$5 per 1,000.— Albert Dickens, State Forester, Manhattan, Kan.

Might Have Been Worse.

A worker at Hull House, who is what she herself calls an "unappropriated blessing," finds much that is amusing in the point of view of many married women toward spinsters.

One afternoon Mrs. Donavan appeared at the settlement house meeting in her best clothes and an aggressive air. One eye was almost closed. one side of her face horribly disfigured

"Why, Mrs. Donavan, what has happened?" cried the worker; then realrass the woman, hastened to add, "Well, never mind, it might have been worse." izing that her question might embar-

"Sure, an' it might," responded the atron. "I might never have been matron. married at all."-The Housekeeper for

Merchandise from the United States forms a steadily increasing share of the imports of Canada. In 1869 mer-chandise from the United States formed 34.03 per cent of the imports of Canada; in 1879, 53.57 per cent; in 189, 45.86 per cent; in 1899, 59.24 per cent; and in 1909 (fiscal year ending March 31), 60.4 per cent. Meantime the share of her imports drawn from Great Britain has steadily declined, having been in 1869, 56.2 per cent; in 1879, 39.34 per cent; in 1889, 38.73 per cent; in 1889, 24.72 per cent; and in 1909, 23.69 per cent.

If you have a strong point in your character, don't make it a weakness by admiring it too much.

# PORK 7c Versus CORN 72c.

Stock raisers one and all are vitally interested in the above: "Price of Pork; Cost

Stock raisers one and all are vitally interested in the above: "Price of Pork, Cost of Production."

You cannot increase the price of pork at present but you can decrease cost of production. How? By getting your hogs in a healthy state, so they will put on the fat they should when you begin feeding grain.

Hogs at all times are more or less susceptible to worms, fever and congestion. Hogs at all times are more or less susceptible to worms, fever and congestion. If they will be an a susceptible to worms are caused, and what does it further signify? Increased cost of fat. Common sense tells us that those worms must further signify? Increased cost of fat. Common sense tells us that those worms must live and receive nourishment. Where do they get it? From the high priced corn or other nutriment you are feeding.

You might say, "My hogs are on alfalfa and therefore free from worms," but this is where you are mistaken. Dissections by the score have been made of hogs which have been on grass and alfalfa and the examinations have shown a conjection of parasites, which later develop into worms, or the trouble already exists and the intestines have been found full of worms.

Protect your own best interests by protecting your stock from diseases. Increase your profits, by decreasing cost of production.

Begin at once to use a medicine to eliminate the worms from your hogs so that when you begin to fatten you will not have to use 60 and 70 cent corn to feed a hog which is full of worms craving nourishment.

A good medicine will save you from 10 to 20 per cent in feed and protect you against took without yaing a good preventive.

death losses.

You are taking big chances in this age when diseases are so prevalent, in raising stock without using a good preventive.

You will never know the benefit our remedies can be to you until you try them. Send in your order, or write for free booklet. Place a little confidence in a home institution and let us help you.

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# ) A I R

Alfalfa is not only a soil improver, a money maker and the best known roughage for all kinds of stock but the manure made from feeding alfalfa is much more valuable than that from any other source except it be from some of the other legumes which are similar in nature.

There is much mineral matter in milk, placed there for the building of the bony system of the calf. This matter must be supplied to the dam through the feed. Corn, corn fodder, timothy hay and corn stalks do not have much of it, while alfalfa, cow peas, soy beans, clover, bran, oats, cottonseed meal and such feeds are rich in it. Neither cow nor calf will do well if she is fed on corn and corn fodder alone.

Not enough interest is being shown breeders and the managers of county fairs in dairy cattle. Horses, hogs, beef cattle and poultry are always provided for in the county fair premium list but the dairy bred cow is neglected or else given so poor a classification that really good animals cannot compete. A full classification would be a great incentive and if this were combined with as liberal promiums as are offered for the beef breeds the showing ought to be a

Governor Hughes of New York has signed the new law which compels keepers of hotels, restaurants and boarding houses who use butter substitutes to announce this fact plainly on the bills of fare, and on the walls of the eating rooms. It also forbids the giving away of coloring matter with butter substitutes, and the use of brands or labels bearing words in-dicative of cows, the dairy, or the names of the breeds of cattle. Be-sides other provisions, the law prescribes a penalty running up to \$500 fine and a year's imprisorment.

Of the ten cows in the cooperative test now being conducted by the dairy department of the University of Nebraska and the State Dairy Association the leader is a Holstein belonging to Henry Glissman, owner of Rock Brook Farm, Station B, Omaha. Her name is Ricka, her weight 1,230 pounds and her record for the last 28 days is 1,479.4 pounds milk; 48.6 pounds fat and 46.08 pounds butter. Her record for the first 112 days of the test is 6,112.9 pounds milk; 197.31 pounds fat and 230.02 pounds butter. Her milk tests 3.2 and she is at the head of the class which includes 1 Ayrshire, 3 Jerseys and 5 other Holsteins.

A movement is on foot in a neighboring state to organize the dairymen that pure bred bulls of dairy breeds may be readily distributed among them. The statement is made that there are now many bull calves

that are vealed under present practise but which would do excellent pio-neer service if allowed to mature. This idea is an excellent one provided it does not result in the dissemination of pedigreed scrubs. A pedigreed animal that is inferior in qualitq is likely to transmit his weaknesses and the buyer should be on his guard. If this association is careful in its methods it can do a great work for the dairy business.

An Illinois dairyman who has tested his cows for five years past has been able to bring his herd up to an average return of \$136.85 of which \$84.35 net profit on each cow. The use of the Babcock test was a revelation to him and aided him to eliminate from the herd cows that were considered excellent producers but proved to be unprofitable. Of two cows that were thought to be excellent and that ate about the same amount of feed, one was found to produce 386 pounds of fat and the other only 176 pounds. One returned \$5 for every dollar's worth of feed consumed and the other only \$1.40. Moral-use a Babcock test.

Heretofore Kansas has had few dairymen but many farmers who milked cows. Dairying has been a sort of side line with the farmers, too many of whom looked upon it as drudgery. Of course the cream check is always acceptable; and it is mighty satisfying in its regularity but the drudgery remains. Now listen! No work is drudgery that brings in good dollars in plenty and this the correctly handled dairy always does. Again, the price of land is becoming so high in Kansas that the owner will be driven to dairy practise in sheer self de-Even dollar wheat would not pay interest on it very long as the fertility of the soil goes out with every load of it. Dairying means more money each year and richer land every year. It means financial suc-

Keep the Best Helfer Calves.

Not enough attention is given to the calf by many dairy farmers. The demand for milk and butterfat has been so keen that many have bred their cows merely for the purpose of keeping them in milk, says Kimball's Dairy Farmer. No regard has been given to the offspring or to the necessity of perpetuating the dairy herd. When cows become unfit for usefulness they are discarded and others are bought to take their place. This is a haphazard policy at best and virtually invites disaster for the simple reason that when one buys a cow he getting an uncertainty. He may bringing into his herd tuberculosis, abortion or some other contagious disease that will be eradicated with difficulty. Besides this, it is difficult for one to buy mature cows that are desirable. There are instances where people are going out of business, but the majority of cows that are offered for sale are being parted with because the present owners find them undesirable.

This passes upon the calf the full responsibility of continuing a profit-able dairy herd. Other things being equal, the calf that starts its life in the fall has a better chance for development than the one that is born in the spring. There is scarcely a barn that is not well adapted to the successful handling of calves. that is necessary is clean, sanitary surroundings, plenty of sunlight and fresh air and careful feeding. stables must, of course, be kept clean, dry and well bedded. The calves must be fed regularly and in clean pails. These two items of cleanliness are often overlooked. They are, however, the best means of protecting against bowel and digestive troubles, the worst enemies of the young calf. With judicious handling it is possible to gradually change the calf at an early age from whole to separated milk, thus reducing the expense of feeding the little fellows. Good heifer calves from good common cows and registered dairy sires are in great demand. There is always a call for them and the prices are usually strong, varying from \$40 to \$100 according to the age and appearance of the heifer. On the whole the dairy calf represents a profitable crop if you are inclined to sell, and it is a necessity if you wish to keep a good, paying herd. Many are laboring under the delusion that it is difficult to raise the calves, but with good care and good, common sense this difficulty soon fades away.

Cleaning Milk By Separator.

A French savant figured out to the acre how large a farm could be manured by the sediment in the milk that came into Paris. When there is a deposit at the bottom of a milk bottle you can safely assert that the bulk of it is cow manure. In the manufacture of cream by machinery, centrifugal force, the dirt is carried to the ex-treme inner circumference of the machine; next comes the skim-milk, and then, near the center, rests the cream, being a lighter body than the watery milk. After a run of milk through the machines, see them cleaned out you will forever be cured of the milk habit. You never forget it. . Operators around a creamery seldom drink milk. This is a reason.

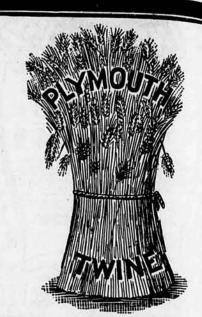
How often when opening a can of

condensed milk you smell the odor of the stables! That's the manure con-densed with the milk. In the sediment taken from the separating machine after a run of milk, manure predominates, palpably, visually, nauseatingly. Blood and pus and hairs, and seeds and atmospheris detritus, generally make up the filthy conglomeration of foreign matter found in city

milk as we know it. Manure, if it were only filthy, would not be so bad; but Dr. Gorton, in a recent article on milk in the N. Y. Medical Journal, points out that a perfectly healthy cow, a cow that would pass the tuberclin test even after slaughter, would show no lesions, may often void manure alive with tuberculosis bacilli. That this manure has a way of disseminating itself through the barn, getting net only into the milk but into the fodder of the cow ad infinitum, is well known.

Now, granting that this manure does get into the milk, why should it not be mechanically removed at once and not be allowed to steep and ferment in the cans or bottles, to be finally pasteurized or sterilized—save the mark!—and made fit for human consumption? Why not remove the manure et id omne genus instantly after milking, and leave the bacilli to the sterilizer? Given two cans of cream, one skimmed from milk by the hand process, the other separated by centrifugal machine, of course both cans of cream from identically the same source of milk supply; after the can of hand-skimmed cream has become sour, the can of centrifugal machine-separated and purified cream is yet sweet.

Farmers who sell cream to butter factories, separate the cream by hand milk-separating machines, and while these machines will not pasteurize or sterilize, nor will they eject the bacillifi, they will clarify the milk and purify it. Usually milk receives an apology for a straining through the spout of the milk can, which holds back the coarse manure, no other. When milk had gone through a bat-tery of eight fine brass strainers of the closest mesh, and then through



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our customers told us about twine, we settled down to handling PLYMOUTH TWINE only. Since that time we have never had a dissatisfied customer on twine, or a word of complaint about it; always warrant it, telling them to return if it does not work satisfactor-ily, but have never yet had a ball returned."

TRY PLYMOUTH TWINE this season, and you will always use it. Guaranteed full length and extra strength, No knots, no breaks, no delays, no loose sheaves or lost grain. Look for the wheat-sheaf tag on every ball. Get it at the local dealer's.

PLYMOUTH CORDAGE COMPANY Largest rope makers in the world-oldest in America

Plymouth, Massachusetts









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

A man's religion seldom appears a success to those to whom he owes



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eparators, when the separators were leaned, enough manure deposit was bund to disgust any milk drinker. Ind such milk came from a farmer egarded as above the average for lean!iness around his barns, etc. It ould be a long step towards clean pilk if farmers would at once, after nilking, mechanically strain the milk y tentrifugal separation.—Charles pristadoro in Country Gentleman.

ife Insurance As Investment and

Protection. On the back page of this issue ap-ears the only full page advertise-nent of a life insurance company ever een in a farm paper. Kansas Farmis glad to be able to print such an dvertisement. The people of Kansas re looking for safe and profitable inestments as never before. This is rue especially of the farmers of this tate, as Kansas Farmer has every eason to know. Life insurance is an arestment. It is also, of course, a rotection. Business men and farms recognize as never before that it is mpossible to invest funds with more afety than in policies in old line life surance companies. There are sevral forms of life insurance, as ex-lained in the advertisement itself, uch as straight, or Ordinary Life, Limited Pay Life and Endowment. Which is best KANSAS FARMER WILL of undertake to say. It depends ndual. It is true that Old Line Life isurance costs more than some other ind of insurance. We will not argue ere the merits of Old Line or Frater-al insurance, but will simply say his, that in order to be sound and ale life insurance cost must be high hough to pay the cost. There would eem to be no doubt about this. If the taking a risk. This doesn't mean bat each individual must pay the ost of his own insurance. This will lepend upon how long he lives, but the whole the income must equal, fact exceed, the outgo. Nothing is Nothing is lvidual; nothing more certain than he life of a thousand men. A few ears ago some insurance methods were criticised, and were open to critcism. Even then, however, the mon-y invested in old line life insurance s safe. It is even safer now. No to said. It is even safer now. No nevestment in fact is so safe except townment bonds. This is universally admitted. The Equitable Life Aswance Society is known as "the trongest in the world." Read what his Society has to say on page 20. operates under the splendid New ork Laws, put in force under the dership of Gov. Hughes. Do you of owe it to yourself, and still more to your family, to look into the proposition of the Equitable? We all mow we need insurance, and yet trange to say it is one of the things e must be urged to take. Mr. Chas. Moore, of Topeka, is the general gent of the Equitable for Kansas. Read carefully what he says. Mail m the coupon on the back page as quested and he will send you intersting and valuable information. Your ing this will place you under no obligation. It would be well to do it how before you forget it.

WHEAT PRODUCTION IN THE UNITED STATES.

(Continued from first page.) ent; in 1900, it was 28.4 per cent; average for the three decades of 7.4 per cent, or 6 per cent less than methird. This is significant in that s average prevails notwithstanding the fact that the great wheat states of Arizona, California, Colorado, Idaho, linnesota, Nevada, North California, Okhoma, Oregon, South Dakota, Utah ad Washington had an average of cent of acreage of cereal crops h wheat. These states have doubt-ess almost, or altogether, reached heir maximum acreage in wheat, and will gradually reduce their area of the scrop in future years. Ten states, California, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Nebras-A New Mexico and Wisconsin, have already begun such reduction. In 1880 the percentage of accesse in theat to the entire cereal crop in these ten states was 45.1. In 1900 this had been reduced to 32 per cent, a difference of 13.1. This same change will undoubtedly occur in all of the other great wheat producing states indee of the next three decades as the ranch great wheat producing states in the smallanch system gives place to the small-

lt, however, no reduction occurs and not only the present average of 27.4 per cent of acreage of cereal crops be put out in wheat, but the area be ex-

tended to embrace full 33½ per cent, it would amount to only 61,664,862 acres, or 14,359,033 acres above our present acreage, as reported by the Agricultural Department for 1906.

At the present average rate of production during the last decade, 13.8 bushels per acre, 61,664,862 acres would produce 850,975,095 bushels of wheat per year. This at 5.25 bushels per capita would support 162,090,494 persons, a population which, according to Mr. Hill's estimate, would be reached about 1938, or in 30 years.

Kansas Fairs in 1909.

Following is a list of fairs to be held in Kansas in 1909, their dates, locations and of Agriculture and compiled by Secretary F. D. Coburn:
Allen County Agricultural Society—Frank E. Smith, Secretary, Iola; August 24-27.
Allen County—Moran Agricultural Fair Association: E. N. McCormack, Secretary, Moran; September 8-10.
Barton County Fair Association—W. P. Feder, Secretary, Great Bend.
Brown County—The Hiawatha Fair Association: C. A. Monney, Secretary, Hiawatha; September 7-10.
Butler County Fair Association: W. of. Benson, Secretary, Ell Dorado; August 24-27.
Butler County Fair Association: Worden Secretary, J. A. Clay, Secretary, Douglass; September 28-October 2.
Clay County Fair Association: Walter Puckey, Secretary, Clay Center; September 7-10.
Clay County—Wakefield Agricultural Society: Burgene Filting Secretary, Walter Purples of the secretary of

Puckey, Secretary, Clay Center; September 7-10
Clay County—Wakefield Agricultural Society: Eugene Elkins, Secretary, Wakefield; October 27 and 28.
Cloud County Fair Association: L. E. Abbott Secretary, Concordia; September 21-24.
Coffey County Agricultural Fair Association: Henry Jackson, Secretary, Burlington; September 14-17.
Cowley County Agricultural and Live Stock Association: F. W. Sidle, Secretary, Winfield; August 31-September 4.
Cowley County—Eastern Cowley Fair Association: W. A. Bowden, Secretary, Burden; September 8-10.
Cowley County—Udall Agricultural Society: F. H. Chenoweth, Secretary, Udal,; September 16-18.
Dickinson County Fair Association: W. C.

Cowley County—Udall Agricultural Society:
F. H. Chenoweth, Secretary, Udal,; September 16-18.
Dickinson County Fair Association: W. C.
Curphey, Secretary, Abilene; September 28-October 1.
Douglas County Fair and Agricultural Society: Elmer E. Brown, Secretary, Grenola;
September 22-24.
Finney County Agricultural Society: A. H.
Warner, Secretary, Garden City.
Franklin County Agricultural Society: J. E.
Shinn, Secretary, Ottawa; August 31-September 3.
Greenwood County Fair Association: C. H.
Weisner, Secretary, Eureka; August 17-20.
Harper County—Anthony Fair Association:
L. G. Jennings. Secretary, Anthony; August 38-6.
Harper County Agricultural Association:
Chas. H. Sampson, Secretary, Harper; September 7-10.
Harvey County Agricultural Society: L. C.
Harlan, Secretary, Newton; August 31-September 3.
Leavenworth County Fair Association: C. A.
Sparrow, Secretary, Leavenworth; September 21-24.
Lina County Fair Association: John O.
Morse, Secretary, Mound City; September 21-23.
Lyon County Agricultural Society: C. E.
Reeble, Secretary, Emporia; September 7-11.
Marshall County Fair Association: W. H.
Smith Secretary Maryaville

Lyon County Agricultural Society: C. E. Reeble, Secretary, Emporia; September 7-11.

Marshall County Fair Association: W. H. Smith. Secretary, Marysville.

MoPherson County Agricultural Fair Association: Carl A. Grant, Secretary, McPherson: September 7-10.

Miami County Agricultural and Mechanical Association: Geo. R. Reynolds, Secretary, Paola: September 28-October 1.

Mitchell C-unty Agricultural Association: W. S. Gabel, Secretary, Beioti; September 28-October 1.

Montgomery County Agricultural Society, Independence.

Montgomery County—Coffeyville Fair and Park Association: C. L. Hollingsworth, Secretary, Coffeyville.

Nemaha County Fair Association: W. H. Fitzwater, Secretary, Seneca; September 15-17.

Neosho County—Chanute Fair and Improvement Association: Wilber F. Allen, Secretary, Chanute; August 16-20.

Noss County Agricultural Association: Thos. Rineley, Secretary, Ness City; September 22-24.

Ness County—Utica Agricultural and Fair Association: R. C. Webster, Jr., Secretary, Utica.

Norton County Agricultural Association: M. F. Garrity, Secretary, Norton; August 31-September 4.

Osage County Fair Association: E. T. Price, Secretary, Burlingame; September 7-10.

Reno County—Central Kansas Fair Association: A. L. Sponsier, Secretary, Hutchinson; September 11-17.

Republic County Agricultural Association: F. N. Woodward, Secretary, Belleville; September 18-16.

Riley County—Manhattan Agricultural Fair Association: J. Q. A. Shelden, Secretary, Manhattan: September 21-24.

Rooks County Fair Association: H. A. Butler, Secretary, Stockton: September 7-10.

Saline County—Kansas State Exposition Company: R. T. Kreipe, Secretary, Topeka; September 3-8.

Shawnee Ceunty—Kansas State Exposition: Company: R. T. Kreipe, Secretary, Topeka; September 13-18.

Shawnee Ceunty—Kansas State Exposition Company: R. T. Kreipe, Secretary, Topeka; September 13-18.

Sheridan County Agricultural Association: Frank A. McIvor, Secretary, Hoxie.

Sheridan County—Selden District Fair Association: Geo. W. Sloan, Secretary, Selden; September 7-10.

Smith County Fair Association: H. C. Smith, Secretary, Smith Center; August 17-20.

Stafford County Fair Association: D. S. Mull, Secretary, St. John; August 25-27.

Farmers or breeders in need of milking horthorns should correspond with Ever-reen Home Farm of Lathrop, Mo. They are hornless Shorthorns and price them out the proper.

Rumor has it that efforts are now being made to remove the American Royal to Elm Ridge park at Kansas City in order to allow for its yearly growth. Whether this rumor has any foundation in fact or not the fact remains that the Royal would be better for larger and better grounds. This is a great show located in the very heart of the breeding industry and Elm Ridge is one of the best and most beautiful parks for show purposes in the United States. If the two could be brought together it would leave nothing to be desired. Apparently nothing stands in the way new except lack of railroad facilities.

# CREAM SEPARATOR DISCS

Unscrupulous competitors, struggling desperately to retain any separator business, are making such reckless statements as to separator "DISCS" that a few words more on our part may not be amiss.

DE LAVAL "DISCS" are as necessary to the bowl of the cream separator as teeth to the human mouth.

A man can chew without teeth and you can separate without "DISCS", but in both cases at a great disadvantage.

So far as imitating "DISC" separators are concerned, they compare with the IMPROVED DE LAVAL about as artificial teeth do with a perfect set of natural ones.

The DE LAVAL COMPANY owned the first "HOLLOW" bowl and the first "DISC" bowl and have originated all the improvements upon both. Hence they are free to use the best and any combination of the best features, while would-be competitors are forced to get along with ten to thirty year old types of construction upon which DE LAVAL patents have expired.

DE LAVAL "DISCS" fully double the capacity of any separator bowl of the same size at the same speed.

DE LAVAL "DISCS" fully double the separating efficiency of any separator bowl of the same size at the same speed, and enable a perfect separation that is not possible otherwise.

The saving in size of bowl and in necessary speed makes possible much easier running, and more than doubles the life of the separator when built equally well.

But other separators are not built as well as the DE LAVAL, so that the average life of a DE LAVAL separator is five times that of the average would-be competing separator.

DE LAVAL "DISCS" make possible the skimming of cool milk, which cannot be done with most other separators at all, and if at all only with greatly increased butter-fat losses in the skimmilk.

DE LAVAL "DISCS" make possible the running of heavy cream, 40 per cent to 50 per cent butter-fat, with its tremendous advantage in creamery patronage, which is either impossible with other separators or can only be done with greatly increased butter-fat losses in the skimmilk.

DE LAVAL "DISCS" enable the construction of a bowl in the LATEST IMPROVED DE LAVAL SEPARATORS that is quickly and easily cleaned and absolutely sanitary, a combination of most important advantages not to be found in any other separator made.

DE LAVAL separators cost no more than would-be competing separators of relative actual capacity, save their cost every year, and last from two to ten times as long.

98 per cent of the experienced users of FACTORY cream separators now use DE LAVAL machines. The great majority of FARM separator users are already doing so, and within five years we sincerely believe the use of DE LAVAL separators will be UNIVERSAL.

A DE LAVAL catalogue explaining all of the above points is to be had for the asking, as well as an IMPROVED DE LAVAL machine for practical demonstration of them to every intending separator buyer.

#### LAVAL SEPARATOR CO. THE DE

42 E. Madison St. CHICAGO. 1213 & 1215 Filbert PHILADELPHIA Drumm&Sacrament

General Offices: 165 BROADWAY **NEW YORK** 

14 & 16 Princess St. WINNIPEG 107 First St. PORTLAND, ORE.

#### WYANDOTTES.

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

#### RHODE ISLAND REDS.

B. C. R. I. REDS exclusively, fine layers eggs from selected pens \$1.56 for 16 eggs from utility fleek \$4.50 per 100. J. H. CANNON, Preston, Kan.

#### SINGLE FOMB RHODE ISLAND REDS.

Eggs from any mating half price remainder ef seasen. Mixed eggs Rose or Single Gomb frem 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,

#### BUFF ORPINGTONS.

BUFF ORPINGTONS—Ckis., pens. baby chicks, eggs. Mere first prizes State Fairs and State Shews than all other breeders. My POULTRY BOOK, containing infermation worth hundreds of deliars to farmers sent for 10 cents. W. H. MAXWELL, R. 95, Topeka, Kas.

## Eggs For Hatching.

FROM FINE STOCK—NONE BETTER. S. C. Buff Orpingtons, extra fine in shape at celor, standard weight. Cook strain. Ist 3 per 16, \$5 per 50, \$9 per 100; 2d pen, \$1 pr 15, \$3 per 50, \$5 per 100.

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

Fiamond Jubilee Orpingtons, a few settings at 35 per 13 in satting 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, Emporis, Kan.

#### LEGHORNS.

PURE S. C. B. LEGHORN EGGS \$2.75 per 100. 6HAS DORR, Osage City, Kan.

SINGLE COMB BROWN LEGHORN eggs 15 for \$1, 100 for \$4. H. N. HOLDEMAN, Meade, Kan.

JOHNSON'S LAYING STRAIN rose comb rown Leghorns. Eggs 15 for \$1, 30 for \$1.75, 50 to: \$2.50, 100 for \$4. Write H. M. JOHNSON, Formosa, Kau.

S. C. BUFF LEGHORNS—No stock. 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, Kan.

ROSE COMB BROWN LEGHORNS EX-clusively. Farm raised. Eggs per setting of 15. \$1; per 50, \$2; per 180, \$3.50. P. H. MAHON, R. R. 3, Clyde, Cloud Co., Kan.

#### BUFF COCHINS.

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

#### LIGHT BRAHMAS.

LIGHT BRAHMA EGGS
birds scoring 93 to 94 by Judge Rhodes,
per 15, large flock \$1 per 15, \$4 per
Baby chicks each month \$2 per dozen.
MRS. A. P. WOOLVERTON,
R. 8, Topeka, Kansas.

#### PLYMOUTH ROCKS.

FOR SALE.—Eggs from pure bred Barred Plymouth Rocks, 75c per 15, \$4 per 100. HILLCREST POULTRY FARM, R. D. No. 4, Topeka, Kan.

BARRED ROCKS—31 premiums, June and July barguins. Eggs 15, \$1; 60, \$3.28; 160, \$5. Chicks 15c each. Breeders for saic. MRS. D. M. GILLESPIE, Clay Center, Kar.

#### BREEDERS.

Our White Rock breeders are for sale at

SMITH & KNOPF, Mayetta, Kan.

BARRED ROCK BARGAINS. After May 1 eggs from my high scoring ens only \$1.50 per 15. Four settings for Range eggs 75c per 15.

MRS. CHAS. OSBORN, Eureka, Kanesa.

#### PURE BRED POULTRY.

EGGS FROM PURE BRED POULTRY, b. C. W. Leghorn and B. P. Rocks. Birds fouring 95. Eggs \$1 per 15 or \$5 per 106 the per of the season at the ELNGRA 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.

"No risk, no gain," may be true in certain instances, but its indiscriminate application furnishes motive and excuse for a lot of fool losses.

If you want to work any woman, and nearly any man, send around a smooth man to say he is calling on only a few of the most prominent peo-

# POULTRY

If the growing chicks are ailing, look them over for lice. A little grease on the head and under the wings will generally drive them away.

If your young chicks are not provided with shade, you should see that they have some cool place to run to during the hot part of the day. With-out shade they will not thrive.

The largest order for baby chicks received at one time by any breeder was given the other day to a Petaluma, Cal., poultryman. It called for 15,000 White Leghorn chicks, all to be shipped at the same time. The chicks were shipped in a specially prepared car.

In Ireland, the poultry products amount to some twenty million dollars annually, and are an equal in value of the hogs, horses and sheep combined. The wholesale value of the eggs and poultry consumed in the United Kingdom is estimated to be over one hundred million. The Secretary of State for Scotland appointed a departmental committee on poultry breeding in Highlands and islands of Scotland. When the committee report appears it will be the first official record of the kind dealing with the poultry industry in any country and marks an important step in advance that cannot fail to have a wide influ-

#### Do Not Fail to Set a Few Eggs This Month.

It is not too late to get out good breeders, especially of a good laying quality, as later hatched pullets do not start laying until the severest of the winter is past and consequently they run a good chance of having a better constitution than the earlier ones, and make better layers the following winter. Some of our best layers were hatched late in the season.—Mrs. D. M. Gillespie, Clay Center, Kan.

#### R. C. B. Leghorns Compared with S. C. Browns.

Will you kindly give something on the R. C. B. Leghorns as compared with the S. C. Brown? Are they as flighty? How do they compare in size and egg production?—Mrs. M. E. Huey, Stockton, Kan.

Ans.-Rose Comb Brown Leghorns and Single Comb Brown Leghorns are essentially the same in all characteristics, except in comb. In flightiness, color, size and egg production they are about the same, except as they may differ in individual flocks. The Standard of Perfection has the same description for both these varieties of Legherns, excepting the comb.

#### Mrs. Hen Wins.

In a recent egg hatching contest held by Uncle Sam in Oregon the plain and unassuming Biddy came out With much prejudice to victorious. fight against the little hen "sat" bravely away and at the end of the contest showed that she had hatched a percentage of 78.8 while the best the incubators could do was 60.6 per cent. During another phase of the contest only eggs were used that were known to be fertile. Of these the incubators hatched only 78.5 per cent hen made hatch of 96.5 per cent. Out of the total number of chicks hatched the incubators lost 16.6 per cent of the hatch while the old hen lost only 2.8 per cent.

It was also shown that incubator chicks weighed less at hatching time and that the death rate of hen-hatched chicks, raised in brooders, was 10.8 per cent while that of incubator hatched chicks was 33.5 per cent. Chicks hatched in incubators and then given into the care of hers died to the extent of 49.2 per cent while only 2.2 per cent of the chicks hatched by the hens died. These results show that for the small poultry raiser there is nothing quite so good as the old re-liable hen. Where poultry raising is extensively engaged in for the market the incubator is of inestimable value. This information is being given out from Washington in the shape of a

bulletin which can be obtained from the agricultural department for the asking.

#### Gleaned At Cornell.

Four methods of comparing the feeding of poulltry by wet mash, dry mash, hand-fed grain and hopper-fed grain, practised at Cornell, have shown the best results to come from feeding the dry mash in hopper form, both as regards the health of the fowls, the profit indicated in eggs produced, and the fertility and hatching power of the eggs themselves.

Oyster shell and grit must be fed to fowls kept in confinement. Those fowls not receiving both proved to be unpro-

In striving to force the molting by restricting the diet, it was found detrimental both as regards production, time of molting and profits. It was noticed, however, that the best fowls molted last and molted much quicker than those molting earlier in the

It is maintained that a fowl needs surplus fat in her body to be in condi-tion to produce eggs. When killing for the table, note the presence of egg yolks in the moderately fat fowl and their absence in the poor ones. The rations fed at the college are: Mixed grain, two parts cracked corn, two parts wheat, one part oats, scattered rather sparingly in a deep litter in the morning, and again at night more abundantly. At noon a mash consist-ing of 150 pounds cornmeal, 150 pounds wheat midlings, 75 pounds wheat bran, 100 pounds meat scrap, 25 pounds oilmeal and 25 pounds alfalfa meal, is fed in a dry form or mixed with water or milk. When fed dry it is placed in hoppers, which are left open from noon until evening.

The chick rations used are three parts finelly cracked wheat and two parts finely cracked corn, fed abund-antly at the start, in addition to finely cracked oyster shell, grit and fresh water. After three days, give a ten-minute feeding per day of beef scrap or stale bread in milk, with hard boiled eggs added.

Fresh-air houses should be used for all kinds of poultry. When building new, special openings should be made for cloth windows, which provide this fresh-air condition. In old buildings, a part of the present glass window can be changed to a cloth curtain.

#### The Overweight Clause of the Standard.

Elsewhere in this issue will be found some notes on the "Revision of the Standard." One short clause therein will make a great difference to exhibitors at poultry shows. The revision committee has recommended that the clause cutting birds for over-weight be abolished. The Standard now calls for a cut of two points per pound on all specimens of the American classes that are in excess of Standard weight, provided one pound overweight be allowed. This was a very unpopular clause of the Standard and we have always spoken and writ-ten against it. We are very glad to note that the committee has abolished this rule. They have even gone fur-ther and decided that specimens in the Asiatic classes weighing more than three pounds less than Standard weight shall not be considered by the judge when shown after November 1. and in all other classes, except ban-

tams, specimens weighing more than two pounds less than Standard weigh shall not be considered by the judg when shown after November 1. This when shown after November 1. The is a move in the direction of heavle poultry and more of it. Over two years ago we wrote the following article on this same subject, in the "Help ful Hen," and we are glad to know that our position at that time has been accordingly by the Committee on Research and the committee on Research and the committee of the sustained by the Committee on Revi

The clause in the new Standard "The clause in the new Standard that says the American varieties of fowls shall be cut for excess of Stand ard weight, is causing quite some dissatisfaction among the breeders of this class of fowls. We think the have just cause for complaint. Some mottoes exploited by poultrymen are 'Better Poultry and More of It,' 'More Meat and More Eggs,' 'Increase and Improve the Eating Qualities of the Fowl and Augment the Egg Output Such aims are commendable in all poultrymen and ought to be encour such aims are commendation in all poultrymen and ought to be encour aged, but in this new clause we find quite a hindrance to 'more meat.' I is true that the Standard allows at excess of one pound over Standard weight before a cut is made, but we fail to see the necessity for any cut a all for overweight. We know that the claim is made that when the American varieties get too large that the can varieties get too large that the become ungainly and lose the shape characteristic of the breed. If the specimen is ungainly, is it not cut is shape and symmetry, then why cut it again, by the overweight clause, for the same defect? Is it a deterioration in a steer to have too much been on him, or in a hog to have too much pork? Then why should it be a sit for the noultrymen to have too much for the poultrymen to have too much meat on the bones of his chickens The fanciers of the East are the one that are answerable for this innova tion in the new Standard. Are their fowls getting so small by inbreeding and close confinement, that they can no longer hold their own against the large hardy fowls of the West, and it was therefore necessary to put spoke in some one's wheels?
"It goes without saying, that the

primary object of the fancy as well as commercial poultry should be the betterment of all varieties of fowls, for however we may differ in the choice of our breeds, in the choice of the colors, or in the choice of the shape of our fowls, we all agree that our main object is to increase the utility of all fancy fowls. Why then is this handle cap put upon the breeders of American forms? can fowls? Is a large, ungainly Plymouth Rock more ungainly than a large, overgrown Langshan or Brahma? Is a light two pound Leghorn hen all right and a heavy nine pound Plymouth Rock all wrong? Why make any discrimination against any breed? As Daniel Webster would say, 'We pause

for a reply."

#### How's This for Mud?

Of all the yarns that ever came down the line, regarding deep mud, the following should be entitled to the blue ribbon. It happened in the place where mud originated.

A man was walking along the roadside one summer day and noticed a fairly good looking hat out in the road. Reaching out with his cane he gave it a cut and was startled to hear a voice exclaim: "Here, what the deuce are you doing?"

Then he made the astonishing discovery that the owner of the head piece was under the hat, up to his ears in mud.

"Great Heavens!" exclaimed the man who had hit the hat.

mud as deep as that?"
"Deep!" cried the victim. "Why,
man alive, I'm standing on a load cf hay!"-May Lippincott's.

Flies will soon leave if you saturate cloths with oil of sassafras and lay them near windows and doors. Na tional Magazine for June.

#### EXCLUSIVELY P.LYMOUTH ROCKS WHITE

For seventeen years I have bred White Plymouth Rocks exclusively and have some fine specimens of the breed. I refer to Judge C. H. Rhodes and Judge J. J. Atherton as to the quality of my stock. I sell eggs at resupply prices and those I still eggs at resupply prices and those I still eggs at resupply prices and those I still eggs. sonable prices and these I ship are from the same fowls that I hatch from myself. Eggs \$2 per 15, \$5 per 45, and I pay expressage to any express of fice in the United States. THOMAS OWEN SAME TO THE STATE OF THE S 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 Terting Materiells shows the quality Ingot Iran 99.94 per cent pure, and when put to the acid in comparison with any galvanized metal on the market will show to be 90 per cent better. Ask for descriptive literature and prices. We pay the freight.

THE ROAD SUPPLY & METAL CO., A. D

Topeka,

By Geraldine Bonner

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continued from last week.)

felt that she had told enough. It
felt that she had told enough. It
felt that she had told enough. It
harder telling, too, than she had
harder telling, too, than she had
The last and greatest secret that
stermined to keep from her sisters
fel pominick's love for another
of Dominick's love for another
hat he regarded as his transfer
he, not yet having guessed that his
inever been hers. Now she raised
and looked at the two solemnmen, angrily and bittedly, through
that her eyes still held.

It would be an it in the harder of the harder
had him a good wife, as good
if new how. I've been bright and
when his family treated me like
not complained and I've made the
is taying indoors and going nohen any other woman would have
her some sort of fun out of her life,
saying indoors, and tried to keep
h, when any one cise in the world
or run up bills all over for Mrs.
pay. Nobody can say I haven't
part all right. Maybe I've got my
set of us have—but I haven't negduty this time."

sabrupily from her seat, pushing it
feeling that she had better go be-

at of us have—but I haven't negduty this time."

abruptly from her seat, pushing it
feeling that she had better go besid too much. She realized that in
sical and overwrought state she
eme too loquacious and afterward
For the moment she believed all
Her sisters, full of sincere symher, believed it too, though in
(cooler reflection they would probdien some of her grievances; notone as to the small income, three
a year, representing to them comfort, not to say affluence.

rose, Hazel rose too, her face full
loss concern.

woman, is it, Berny?"

whispered.

d told so many lies that she did
about a few more. Moreover, she
slied not to let her sisters know
'Cannon-not yet, anyway.

e said with short scorn, turning
her feather boa. "Of course it's
not that kind of a man. He's too
sissy. Another woman' I'd like
that."

that."
a sardenic laugh and turned to
lisposing her boa becomingly and
her hat. Hannah, shaking hertem the encircling embrace of the
le rose too, exclaiming,
by t. You must tell us more of
not heard anything for years
at me so. If Dominick's not in
somebody else, what's got into
y deesn't he care for you any
man doesn't stop loving his wife
use whatever. It isn't human

it's in Dominick's nature," said is wife, pulling on her gloves, that isn't human nature, but it's to the man I'm married to and it that concerns me. Remember, the say a word about this. It's all

that concerns me. Remember, to say a word about this. It's all should we talk about it?" said the Harel. "It's bad enough to have spen. You don't want to go round about a member of your family hrown down." if pressing invitations to remain the said her said her said her said her of some of the chokeperation that had followed Mrs. si; and it was a source of comfort that she had now broken the ice i continue to come and pour out her ad sorrows into the ever-attentive ber sisters. But now she wanted say from them, from their penetions, and their frank curlosity, sliy of normal, healthy-minded wo-stellves had lacked the change and which hers had been full. She cut-bys short and left them to their racted speculations, staring blankly sidered room. He reached home, she found on the a note which the Chinaman told been left by a messenger. It was Cannon and contained but a few see, in a businessilke brevity, exawiters desire to see her again, sly suggested that, if she could his affice on any one of the three founds, between the hours of four, he would be deeply honored with the note in her hand when

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frowning and abstracted, was with the note in her hand when topened the hall door and came up it. His eye casually fell on the taner, but he asked no question hardly seemed to see it. Yet her raspleton was so sensitively active lack of interest seemed fraught aling, and pushing the letter back evelope she remarked that it was som her dressmaker. Even the fact answer was an indifferent, barely-d sound seemed insignificant to the took the letter into her bed-hid it in her handkerchief box, as her husband, instead of being the the most curious and jealous of CHARDERS.

CHAPTER XVIII.
Buford's Good Luck.
"Klondike Monologue" at the OrBuford, the actor, made a sudden
pected hit. The morning after his
strange, hoth Dominick and Berny
the paper culturalizations. petred the actor, made a sudden service that The morning after his derance hot Dominick and Berny he paper culosistic notices of the Dominick was particularly interferemembered Buford's state of the at Antelope and was glad to the unlucky player was, in the parhis own world, "making good." taking papers contained more laudagraphs, Buford's act was spoken an enthusiasm which taxed the yet the writers who found that he will be the proper which are the particularly and the property of the writers who found that he will be the property of the writers who found that he will be the property of the writers who found that he will be the property of the writers who found that he will be the property of the writers who found that he will be the property of the writers who found that he will be the property of the writers with buttons made of gold a kiven the last touch of grotesqued in the last touch of grotesqued his nose. This adornment, on his point of every eye. It looked as slight, with a portion of his visage,

made the tinsel send out continuous, uneasy gleams. The more serious his discourse was and the more portentously solemn his face, the more glimmering active was the spangle, and the more hysterically unrestrained became the laughter of the audience. Altogether, Buford had made a success. Three days after his first appearance, people were talking about "The Klondike Monologue" as a few weeks ago they had been talking about the last play of Pinero's as presented by a New York company.

From what Buford had told him, Dominick knew that the actor's luck had been bad, and that the period of imprisonment at Antelope was a last, crowning misfortune. Through it he feared that he had forfeited his Sacramento engagement, and the young man had a painful memory of the long jeremaid that Buford, in his anxiety and affilication, had poured out to himself and Rose Cannon. That the actor was evidently emerging from his ill fortune was gratifynig to Dominick, who, in the close propinquity forced upon them by the restricted quarters of Perley's Hotel, had grown to like and pity the kindly, foolish and impractical man.

Now, from what he heard, Buford's hard times should be at an end. Such a hit as he had made should give him the required upward impetus. Men Dominick knew, who had theatrical affiliations, told him that Buford was "made." The actor could now command a good salary on any of the vaudeville circuits in the country, and if "he had it in him" he might ascend the ladder toward the heights of legitimate comedy. It was odd, considering his age, that it had not been discovered sooner.

Berny was very anxious to see him. Hazel and Josh had seen him on one of the first evenings and pronounced him "simply great." She extorted a promise from Dominick that, at the earliest opportunity, he would buy tickets for her, and, if he could not accompany her himself, she could go with one of his sisters. Dominick did not want to go. He had no desire to see Buford and be reminded of the three week's draam which had interrupted the waking

petration of some mean and repulsive deception.

He stopped to buy the tickets one midday on his way to lunch. He made up his mind to buy three, then Berny could either take her two sisters, or Hasel and Josh, whose craving for the theater was an unassuageable passion. The good seats were sold out for days ahead and he had to be content with three orchestra chairs for an evening at the end of the following week. He was turning from the ticket office window when a sonorous voice at his elbow arrested him:

"Mr. Ryan," it beomed out, "do I see you at last? Ever since my arrival in the city I have hoped for the opportunity of renewing our acquantaines.

"Mr. Ryan," it beomed out, "do I see you at last? Ever since my arrival in the city I have hoped for the opportunity of renewing our acquantaines.

"He reflection of his fortune shining from his beaming face and fashionable figure. The red rasped look had left his features and the hollows beneath his high features and tractive of the his features and the hollows beneath his high features and tractive of or russia-leather. He held out his hand to Dominick, and the young man grasped it with real heartiness.

"Glad to see you, Buford," he said, "and glad to hear you've made a success of it. I haven't seen it myself, but I hear it's a great show, who had seen him buying the, said bindly.

"But you're going? You've been buying tickets, haven't you? Oh. I've got to have your opinion—nobody's I'd think more of than Mr. Dominick Ryan's."

Dominick, with the consciousness that he had just been planning not to go reddening his face, stammered with embarrassed evasiveness,

"Twe just been buying tickets and couldn't get them before the end of next week. You're such a confounded success that everything's sold out days ahead. My wife wants to see you, and that's the best I could do for her. Her sister went on the second night and says to deen the papers.

(To be continued.)







# With Patent Low Swing Foot-Lift

You can't afford to put your hard earned money into any plow until you have had a chance to carefully examine a Liberty Gang—the best low swung foot-lift ever devised—right ever plow bottoms—lifting straight up on the load. A small boy can raise the plows with ease.

Seat is well back, everything in sight—levers all on one side, no climbing—it's just the easiest and most convenient gang you ever rode. Every Liberty Gang is warranted to make good. ¶Send us your name and address and we'll mail you our Gang Plow Folder and name of nearest dealer

Rock Island Implement Company

Kansas City, Mo.

# Time to buy land is this year; Place to buy is Pecos Valley.

# Sample Crop Yields

Hagerman Ranch:

Apples, 450 acres, \$100,000 Parker Earle Ranch:

Pears, 10 acres, - - 15,000

Crouch Ranch:

Alfalfa, 40 acres, - - 3,200

Are you looking for a new home Southwest? | bring extra prices. Well-grassed stock ranges of wide extent are close at hand.

I don't own an acre there, and have no land to sell. What follows is an unbiased statement, as exact and careful as I can make it.

Pecos Valley is in the eastern New Mexico

Pecos Valley is in the eastern New Mexico plains country. It is watered by mountain streams and underlaid by a vast water sheet from which spout artesian wells.

The United States Government has just finished, at a cost of many million dollars, two great reclamation projects. These assure adequate water supply for irrigation.

Soil is rich and deep. Climate is mild in winter, cool in summer, and healthful. Plenty of sunshine.

Prosperous towns await you, and a fine rail-ad—the Santa Fe—thus guaranteeing good markets.

markets.

I can cite you hundreds of cases where farmers have come to the Pecos Valley with practically nothing, and after a few years' steady work have well-stocked farms, clear of debt, with money in bank.

I can tell you of wonderful crops of alfalfa and fruit, regularly grown on irrigated land.

I can prove to you that this is the ideal

I can prove to you that this is the ideal place for raising cattle, hogs, sheep and horses. Here are bred the best beef animals in the world, bar none; it's the home of the Hereford. Hogs, fattened on Pecos Valley alfalfa,

I can convince you that there is no finer land lying outdoors which can be bought so cheaply and which is so sure a money-maker.

The Pecos Valley is not an experiment. In 1908 there was shipped over the Santa Fe from that section to outside markets 2,335,373 pounds of grain.

Same year shipments of baled hay amounted o 26,217 tons, as against 4,174 tons in 1905, n increase of more than 600 per cent in three

Fruit thrives here. No blight, no insect pests. Pecos Valley apples are known from Texas to London.

There are 500,000 acres in the ditch and artesian districts. Also big areas which can be watered by pumping-plants.

Unimproved lands in artesian belt may be bought from \$15 to \$30 an acre. Improved

bought from \$1 lands cost more.

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 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.

# HOME CIRCLE



An Hour or Two in the Woods.

Those people who live close to nature can not realize what a privilege is theirs. Only those whose work is in-doors, whose daily quota of fresh air is filtered through screens at best, and diluted with the dust and microbes of the city can fully enjoy a breath of country air. The city dweller can not live close to nature. Between him and Mother Earth is ever the brick pavement or cinder walk. The grass is always neatly clipped on his lawn, the flowers grow in beds of accurate geometrical shape, all the trees stand in rows and the only flowing water he sees is what flows into his bath-tub every morning! To such an one an hour in the country is like a cup of water to one who is thirsty.

It was with some such feelings as these that we boarded a car not long since loaded with bags and baskets and buckets and-matches. For we were going to the woods. There were six of us, three grown-ups and three boys of fourteen or fifteen. You may take this from me as a tip that no picnic can be a success without at least one boy. Boys are the salt of the earth, and the world would very soon cease moving if the boys should all grow up and no more come to fill their place. Boys are a great care to their parents and in truth it is a rather ticklish matter bringing them up, but at heart they are the finest of God's creatures. They are terribly ashamed of their best qualities and wish very much to appear rough and bold and bad. But some of us like to break through the black outside husk of a walnut and then the hard inner shell, in order to find the sweet meat inside, and some of us can find the sweet meat of a boy and do not mind the rough shell he wears around it. For there is no one so gentle, no one so true and no one so loyal and serviceable as the boy, if you take him

But I was not writing an essay on boys, only a little paragraph about a day in the woods. And I must be at it.

We went just as far as the city car could take us, and then walked a half-mile or so, climing a fence with fear and trembling (all except the boys, who are never afraid!) lest we be driven out for trespassing. But there was not even a sign, "No trespassing," not a dog barked, and not a single human being interrupted our solitude.

man being interrupted our solitude. Short-tailed rabbits leaped out of the grass and bounded away, birds whistled and sang in the trees above us, squirrels chased each other up the trees, and bugs and spiders and beetles abounded, and it was all too lovely for words. The boys quickly built a fire of leaves and wood, we set a great can of coffee to boiling, opened our bags and baskets, and fell to. Long sticks served as toasting-forks, upon which we fastened strips of bacon and cooked it deliciously. Some-times the bacon fell off into the fire, but we fished it out and with tears of joy and smoke devoured it, and never did good plain eating taste half so good as out there in the woods with good appetite for a sauce and good fellowship for dessert. When at last the fire had burned out, and only a live embers lay on the feathery white ashes, we cut new sticks and toasted marshmallows to see whose would swell the largest and take the richest brown.

Then the boys, children of nature, went exploring, and the grown-ups read "The Tempest," that immortal drama of the forces of earth and air.

At last the lure of adventure caught even them, mildly, and they joined the boys in weaving wildest romances about an old dug-out which they found. And they could even see, at least, by a great eoffrt of jaded imaginations, what seemed so clear to the fresh fancy of the boys, the semblance of an old Indian, peeping around from behind a distant tree, his scant blanket on his back, and a long feather on —is head. The boys tried to entice us into wading in the tiny trickling creek with them, but too soon the espied a

big "craw-dad" and we declined. They fished the crab out, a curious ugly creature, and were intent on "showing him who is boss," by which they meant to kill him, but yielded to our entreaties and slung him high up on the bank, whence he scurried with remarkable speed, back to his native place, the muddy side of the creek.

Ah, well, it was a simple, idle day we spent out there in the woods, but it was worth while. For I am not sure that there is anything that can do one so much good as to forget all one knows of care and trouble and unrest, and just become a little child, with nature for one's mother.

"The Greatest Shortcoming of the Farmer."

We are in receipt of the following letter:

In your issue of May 22, 1909, I find an article under the heading, "The greatest shortcoming of the farmer" by Ruth Cowgill, which I feel that I cannot let pass unchallenged. I do not know the qualifications of the writer, whether real investigations were made or not, but am of the opinion that not much time was spent in the effort to get at the real truth. Before making my answer let me

Before making my answer let me say that I believe my knowledge of both country and city life places me in position to know whereof I speak.

in position to know whereof I speak. I was born and raised a farmer, educated at Manhattan some years ago when prices for farm products were the lowest and farming as an occupation offered little. Being of a mechanical turn of mind I went to town or the city, and engaged in the tinning and plumbing business, handling windmills, pumps, gas engines and water supplies, and at the same time owning land in the country. Now if there is a man on earth that sees more of the convenience and inconvenient, sanitary and unsanitary things in both city and country than a plumber I would like to meet him.

While it is true that more people towns and cities have water the house it must be remembered that in order to have water in the average farm house the farmer must build his whole water works system, whereas in the city all that is necessary is to tap the main in the street and pipe in. However, I find Mr. Farmer in southern Kansas and Oklahoma, building his own water works system, piping to house, barn, lawn, garden, and every where that water is needed. I see him putting in hot air furnaces, gasoline lighting systems, gasoline en-gines, which pump the water, run the washing machine, turn the cream separator.

In the gas belt the farmer burns gas in the cook stoves and ranges, and lights the buildings. Again, Mr. Farmer invests in "fireless cookers," incubators, telephones, carriages, automobiles and what not else. Does not the farmer's wife receive any benefit or relief from drudgery? Away out in Beaver county, Okla., in "No Man's land" where doubtless many citizens of the East and possibly some in Topeka think they would meet Indians, buffalo, outlaws, etc. There are found here farm houses costing from fifteen hundred to three thousand dollars, completely modern throughout.

These things I know, because I am a farmer and mechanic, living on a fine alfalfa farm and doing mechanical work for my brother farmers in the surrounding country for a distance of 30 miles around.

Compare, if you please, such a life for the fairer sex with a patch of ground in the average Kansas town, 100 by 150 feet, on which is located, a house, barn, outbuildings, a horse or two, a cow, one or more pigs, and possibly chickens, and open well dangerously near privy pit, barn or pig pen, enough, enough! Take a trip over the city with your plumber some day and be convinced. True there is plenty of room for improvement in the country, but many country people prefer hand labor, thinking to economize, for example, the Russians and a great many German.

I give it as my candid opinion after

# FASHION



S483—Child's Rompers.

These useful little garments for children, are growing in popularity and no calid should be without them. These rompers may be worn by either boy or girl. They completely cover the dress while at the same time give perfect freedom while at play. The neck may be cut square or high finished by a narrow band. A tape or elastic inserted at the lower edge holds the fulness in place at the knee. The pattern is cut in 4 sizes—2.4-6-8 yrs. The 4 yr. size requires 2\(\frac{1}{2}\text{yds.}\) of 3\(\frac{1}{2}\text{ into material.}\) Pattern here illustrated will be mailed to any address upon receipt of 10c in stamps or silver.



8518—Girls' One Piece Dress.

A remarkably pretty little frock is here shown, that is suitable for development in chambray, linen, pique and chailfs. Deep pleats over the shoulders give the required fulness, which may be confined with a belt of the material or of leather. The pattern is cut in 5 sizes—2 to 10 yrs. The 6 yr. size requires 2% yds. of 36 inch material. Pattern here illustrated will be mailed to any address upon receipt of 10c in stamps or silver.

8498—A Pretty House Jack
This pretty little garment for
wear is most simple and becomin
are arranged over the soluders,
graceful fulness that may be belieft to fall free from the should
model would develop well in plai
dotted challis, or the wash fabric
lawn, cotton crepe and dimity. Th
is cut in 6 sizes—32 to 42 inches b
ure. Size 36 requires 44 yds. o
material. Pattern illustrated
mailed to any address upon recei
in stamps or sliver.



8500—A Chie Blouse.

Ladies' Shirtwaist, with sleeve opiece with side front and side binsizes 32 to 42 inches bust meas 36 requires 2½yds. of 36 inch mai attractive and easily constructed is one of the newest and smartes son has given us. It is made sleeves cut in one piece with the and side back. Broad pleats are in Gibson style over the should neck is slightly low in front finir rolling collar. The pattern also for high neck completed by a band. Suitable development may Scotch madras linen, checked as the mercerized fabrics. A patter illustration will be mailed to an on receipt of 10c in stamps or silv



#### EACH PATTERN 10 CENTS.

The Kansas Farmer, Topeka, Kan.

Please find enclosed ..... cents, for which send patterns as follows:

Number ......

Name ......

having lived in towns, cities, and the country for over thirty years that there are more women becoming "a jaded, over worked old woman" in the towns than in the country.

It might be well for President Taft to appoint a commission of farmers for investigating city life.

THE REMEDY.

The writer of the article in question says, "we must look to the root of the matter"

While I am in favor of good houses, etc., I say the remedy is education. Teach agriculture at the agricultural college, teach agriculture at the com-

mon school. Teach agricultur farmers' institutes, teach agrin the home, teach mechanic anything and everything to boys and girls should know them interested, get their a Make them students of nature they may know beneficial plinsect life from the injuriou they may feed, breed and hand intelligently, that they may with a broader range of visyou will have reduced "the dof the farm by the children"

JUNE

minimum.—M. L. Dickson, Englewood,

The above letter was read with great interest, and I am very glad indeed to publish it, since it serves to point the moral to the tale I strove to tell, said moral being that modern conveniences on the farm are no dream of a visionary, that many farmers can afford to have them, and that the wives of said farmers are the hap-

the wives of said tarmers are the happiest, kindest and most altogether charming women in the world.

The insinuation that I was ill-informed, and that my investigation was only superficial is quite unjust, since five years of my life have been spent in writing for the farmer, in visiting kis home, whether it were in the short-grass country the wheat in the short-grass country, the wheat-belt, or the green and fruitful eastern section. The result has been a respect and affection for the farmers of Kansas, which no mere passing acquaintance could give and an insight into his problem, and limitations which even a life's experience on a farm could not give, since things seen from a certain distance are more accurately discerned than things held too close to the eyes. And while my visita-tions to the country, have not been for the purpose of "investigating," but only because I wanted to know the farmer, or because I was happiest in the country, yet, having eyes, I could not but see, having ears, I must hear, and I learned that men with money in the bank, in no possible peril of want or poverty, were allowing their frail wives to draw up heavy buckets of water from the well, to overwork, to expose themselves to all kinds of weather. And when I said to Mrs. Farmer, "How lovely to live in the country! To live so close to nature, to hear the birds sing, and to see things grow! You must be very hapthings grow! You must be very nappy," then it was she who looked at me with pitying eyes for my ignorance, she who told me that I knew not whereof I spoke. And all her cry was, "Oh, the work, work, work!" And she looked at me cynically and she will be contained. said, "It is alright to visit in the counand I felt myself a selfish and unseeing favorite of fortune to be able to "visit" in the country, while my sister must slave there.

I do not wish to be over-particular, but my critic, the writer of the above letter, must acknowledge that I said nothing about town women or town men. Their troubles and their shortcomings are not at the present moment interesting me. I write for the people who live in the country, my interest springs from the kindest of feelings, inspired by the unvarying kindness I have learned to expect

from them.

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Education is a good remedy for many ills, and I am glad that there are such men as the writer of the above, men who have been educated to think, and to put their thoughts into the work they do, who by the object lesson of their own skill, can show other men what can be done to show other men what can be done to make life a pleasanter and more comfortable thing for those who are not so strong as he is.

If now, Dickson will write and tell us something of his practical knowledge of modern comeniences in the country home, we so be very glad to publish it, for the are many who thinking of it roving their homes, yet have only the vaguest leas of how to do it. To such, suggestions from one who has done it will be most helpful.—Ruth Cowgill.

#### Hints to Housekeepers.

A tablespoonful of salt in a kerosene lamp will prevent that disagreeable odor which sometimes pervades a room in spite of the utmost cleanli-

When too many oysters have been creamed for filling plates they can be telegred the next day by adding a little more milk and fresh seasoning. Heat in a double boiler or they may burn.

Much time is saved if paper linings for cake pans are cut in quantities and kept ready for instant use in a dust

dust proof box with tight lid.

To fill cracks in walls, mix plaster of Paris with vinegar instead of water; it will not set for about fifteen minutes, and can be nicely smoothed over before it is hard.

To clean leather, such as purses, hand bags, suit cases and soft leather of any kind, use any reliable wall paper cleaner. Follow directions closely and rub only one way.

Sunshine is a killer of germs and a

powerful disinfectant. As much as possible should be let into all the rooms, a little fading carpets and curtains will result, but the dector's bills will decrease. will decrease.

A teaspoonful of ammonia in a quart of water is a very good preparation for cleaning the hair brush. Dry the brush in the air after washing, but never in the sun.

All stains should be treated as soon as possible, for the chances of complete success are then greater than if the applications are postponed. To re-move ink stains from white goods, squeeze the juice of a tomato on the spot, working it in with the hands, or apply a weak solution of oxalic acid, or cover with powdered salts of lemon and let it remain a few minutes, then wash in cold water and soap.

Ink stains even of long standing may be removed from gingham by wetting the spots in sweet milk and then covering them with table salt; repeat if necessary. Of course to have real success, the treatment should be given before the article is washed.

The above method is also the best for taking out 1nk spilled on carpets, repeating it as often as necessary.

Plain salt will usually be effective

if used at once before the ink dries in, and a fresh stain can also be taken out by soaking in sour milk over

night.

When the article which has been stained is of delicate color or fabric, here is a method that will not injure it in the least: Take teaspoon of cream of tartar and one of powdered citric acid and mix them well; heat a dinner plate and lay the stained part in it and moisten with hot water. Now rub the powder into the stain, using the bowl of the spoon an continue to apply it till the spot has disappeared. Then wash in cold water and dry it.

If one wishes to remove indelible ink marks, make a solution of cyan-uret of potassium and apply to the spot with a small camel's hair brush. When the ink disappears, wash the goods well with clear water. This is

a poison, so be careful of it.

Ink spots on the fingers will vanish if you rub them with the tip of a match moistened in water. Or rub with a small pumice stone, or use acid phosphate.

A teaspoonful of butter put into the water in which vegetables are boiling will prevent them from bubbling over.

In putting down oilcloth, matting or a strip of carpet, when you do not have the metal binding, try this plan: Cut strips of oilcloth one inch wide, and bind with that, letting it extend under one half inch, and lap over the same. Tack closely and it will last for months.

In sewing, the puckering of seams may be avoided by soaking the spool of thread in water over night and letting it dry before using. Colored thread may be made smooth and strengthened as well by soaking in olive oil

In pulling threads for any piece of fancy work or hemstitching the threads will draw more easily if rubbed with a piece of good white soap. Another way is to slightly moisten the threads along the line to be drawn.

When sewing on lace, always hold the lace towards you, otherwise the lace is likely to be drawn and the goods puckered.

Comforts made of cotton batting which have become matted with use may be lightened by hanging over a radiator or where the heat from the stove will pass through them for several hours.

Sometimes during cold weather milk will refuse to sour, and in this case a teaspoonful of vinegar added will often give immediate results.

When sachet powder has lost its fragrance, it may be used as a deodorizer by placing a teaspoonful in an old cup and dropping a tiny coal on it. The smoke is very fragrant and if carried around the rooms imparts a very pleasant perfume.

To remove blood stains, spread the spots thickly with moistened laundry starch. Place in the sun and when dry, if the stain is not gone, repeat.

Rust stains that have been fixtures for several years may be removed in a few minutes by a process that does not rot the goods in the least. Squeeze lemon juice over the spots, then hold over the steam from a tea kettle and the spot will disappear in a very few minutes. Add more juice from time to time to hasten the fading.

Nutmegs should be grated at the

blossom end first.

# LAS PORTLAND CEM Makes The Best Concrete

The cement bought by the U.S. Government for the Panama Canal SEND FOR OUR FREE BOOK "Concrete Construction about the Home and on the Farm." Contains over 100 drawings and illustrations. THE ATLAS PORTLAND CEMENT CO., Dept. 107 30 Broad Street, N. Y.

Daily output over 40,000 barrels, the largest in the world.



You know what that means to you in these times of scarce hired help. You know what it means to be short a couple of men at The picture above shows he Jayhawk Stacker with ake lowered, ready to pick p load—where sweep rake umped. Horses elevate fork while moving towards stack. rece folder shows many illustrations of the Jayhawk in ctual use. Read here haying time.

I know it too. Seven years ago I needed help so badly—that I invented the "Jayhawk". I built a stacker that saved my 1000 ton crop—and my neighbors and friends persuaded me to manufacture them on a large scale.

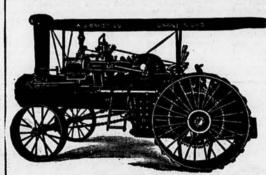
The Jayhawk builds any size rick. Don't make any difference where the rake dumps hay—the Jayhawk picks it up—elevates it and dumps it just exactly where you want it. That means a big saving in time and money.



is the only stacker on wheels. It is the only stacker that can be moved about as easily as a sweep rake. It is the only stacker that works well on windy days. The Jayhawk has saved entire crops in many cases. Yet with all its many advantages it costs no more than other stackers. Better see your dealer at once. If he does not sell the Jayhawk—write us his name—and we will send you one of our large folders. "How to Stack Hay, Better, Faster, Cheaper, with Less Help." You will then learn how much you can save with the Jayhawk Hay Stacker. Most progressive dealers sell the Jayhawk—but the folder is free for your name on a postal card. Be sure to see your dealer the next time you are in town. It will pay you to make a special trip because the Jayhawk will surprise you by its big money saving features. But write anyway for our free folder. A postal will do.

Mr. F. Wyatt.

F. Wyatt Mfg. Co.
13 Fifth St., Salinà, Kans.



WHAT ONE MAN SAYS

Princeton, Kans F. Wyatt Mfg. Co., Salina, Kans.

Salina, Kans.

I Salina, Kans.
I think the Jayhawk Stacker Is O. K. We didn't have a bit of trouble operating it, and as a labor saver it takes the place of four men. I pitched hay with the least labor and expense it ever cost me to do the work for before. Two of my neighbors saw my Stacker and ordered one. They like them fire.

fire. Very truly. J. S. HOWARD.

Where

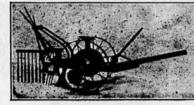
the

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 hand for your inspeinspection. Write for catalog

THE PRAIRIE QUEEN Kansas. 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

STEVENS MFG. CO., Marinetle, Wis. Builders of High Grade Petato Ma-chinery. Transfer and distributing points in every potate raising section.

#### 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 oncethe sooner your order is received the more you get for your money. Send stamps if handiest.



## PUBLISHERS' NEWS

Witte engines, for gas, gasoline or kero-sene are strictly first class, and especially adapted to farm use. They are sold under a five year guarantee. Made in all sizes. See ad on page 13. Address Witte Iron Works Company, 527 West 5th St., Kansas City, Mo.

If you are going to need a gang plow this season, find out about the Liberty Gang Plow. It is illustrated on page 13. Read carefully the claims made for it. Write for folder and name of nearest dealer. Address Rock Island Implement Company, Dept. 3, Kansas City, Mo.

The government bought Atlas Portland cement for the Panama canal, and the government is a good buyer. You want to know about concrete. The makers of Atlas Portland Cement have a book which tells as much about it as any book the writer of this knows of. It is free. It is entitled "Concrete Construction About the Home and the Farm." It has over 100 illustrations. See offer on page 15. Write for the book to Atlas Portland Cement Co., Dept. 107, 80 Broad St., New York.

The Santa Fe System has an ad on page 13, which tells about lands in the famous Pecos Valley in eastern New Mexico. The Santa Fe does not own land there, but is interested in the development of that section, and asks investigation of Pecos Valley. You will be interested in the beautiful illustrated literature offered. Read carefully the ad. Address C. L. Seagraves, General Colonization Agent, 1179L Railway Exchange, Chicago. Mention Kansas Farmer.

#### A Great Hay Pro

The Lightning Hay Press has had a successful history covering 25 years. It is a great press, simple, free from breakage, does unsurpassed work, is strong and durable. Horse and belt power. Made in various styles. Write for catalog to Kansas City, Hay Press Co., 129 Mill St., Kansas City, Mo. Turn to the ad on page 15.

More Money from Butter Fat.

More Money from Butter Fat.

The great Blue Valley Creamery Company of St. Joseph, Mo., has a new ad in Kansas Farmer on page 10 of this issue. It deserves careful reading. The company has a very valuable booklet, "The Secrets of Successful Dairying." It shows how you can make money, more money, from your cream. The present price of butter-fat is quoted in the ad. This company pays highest prices, and pays you with a check immediately. If you want more profit, it will, at any rate, pay to write for the company's plan of doing business.

The "Jayhawk" Stacker.

The "Jayhawk" Stacker.

Mr. F. Wyatt of Salina, Kan, is still offering his well known "Jayhawk" stacker to our readers. See the interesting illustrated announcement on page 15. It builds any size rick. It builds it right. It saves a man's wages every 40 acres. This stacker is built on wheels, the only stacker so built. Mr. Wyatt has a large folder which tells all about it. It tells "how to stack hay, better, faster, cheaper, with less help." Send a postal for it. See your dealer about the Jayhawk. If he doesn't handle it he ought to. In the meantime write to F. Wyatt Mfg. Co., 13 Fifth St, Salina, Kan.

You Can Try a Singer Without Cost.

You Can Try a Singer Without Cost.

The Singer Sewing Machine Company has an announcement regarding its plan of selling machine prices. Some sell much lower very fair. It is simply an offer to let you try a Singer in your home without a penny of expense. Of course the offer means just what it says. There are no strings to it. The ad on page 5 says something about sewing machine prices. Some sell muho lower than ethers. The Singer sells for more than some other makes as every one knows. And there is a reason for the higher price. Will you not send for the booklet "A Wireless Message form the Singer Tower." Sending for the booklet places you under no obligation to buy. Address Singer Sewing Machine Company, Room No. 1174 Singer Bidg., New York.

Secrets of Success.

Thirty-eight years is a considerable period to have one thing better than it has been done by anyone else. Yet, such is the record of the Joseph Dick Manufacturing Company of Canton, Ohio. This concern has made the well known Blizzard Ensilage Cutter ever since ensilage cutters were in general use. Not only that, they have maintained from the beginning an unquestioned supremacy in their field. Blizzard Ensilage Cutters stand for reliability and the most advanced ideas. Mr. Joseph Dick is continually striving to improve our past performance. This is only part of the secret of his success. The other part is a steadfast adherence to quality. Better write for the catalog of this firm. Address Joseph Dick Mfg. Co., 1418 Tuscarawas St., Canton, Ohio. See ad on page 8.

Salt City Business College.

Salt City Business College.

Attention is called to the ad of the Salt City Business College at Hutchinson, Kan. This is one of the strongest institutions in the West. It is centrally located in one of the good business towns in Kansas. The writer visited this school recently and can recommend it to all young men and women desiring a thorough business education. Professor Moody, the president, says it is impossible for them to meet the demand of business men for competent young men and women in every line of commercial activity. A post card or letter to Prof. Moody will bring you a catalog which will tell you all about the school and town. Kindly mention Kansas Farmer when writing. If you contemplate taking a business course, no matter when, you should read the Salt City Business College catalog. It will help you.

Binder Twine.

We wish to call the attention of our readers to an advertisement or binder twine appearing in this issue on page 9. Messra.

A. J. Child & Sons, St. Louis, Mo., have bought at trustee's sale 200 tons of new Standard binder twine and are offering it at considerably less than the regutar price on twine. They advertise that they are making customers a saving of two to four cents a pound, or \$1 to \$2 per bale. This is well worth taking advantage of, and besides they pay the freight in Illinois, Indiana, Iowa, Missouri, eastern Kansas, eastern Nebraska, and northern Arkansas; in other states they make an allowance for freight. This is a snap and well worth taking advantage of. Small samples by mail on request. It would pay you well to write them. Address A. J. Child and Sons, 511 No. Main St., St. Louis, Box. 91.

A Handy Invention for Farmers and Stockmen.

One of the handiest inventions we have ever seen was called to our attention when we received the advertisement for The Lucas Mfg. Co. which you will find on another page. Farmers and stockmen certainly have hard work lifting heavy wagon boxes, stock racks and hay racks. This new invention eliminates all the heavy lifting and saves all the time usually wasted. Lucas brackets bolt onto boards, which you can get by busting up your old rack. Then these brackets hang over the sides of the wagon box, making a perfect 12 foot hay rack, which supports 4,000 pounds over roughest roads. When brackets are reversed, a perfect stock rack is made. Be sure to read their advertisoment and send for their folder which tells plainly and illustrates just how Lucas brackets work. Address A. L. Lucas, personally, care of Lucas Mfg. Co., Station D. Slater, Mo., and get full information about this time and work saver.

Profitable Employment for Young Men.
With the opening of spring the street railway companies of the cities and the electric
interurban lines are needing many additional men as motormen and conductors.
The business of these roads increases largely
during the summer season from increased
travel between towns and cities and additional local business in the cities with the
opening of the parks. The positions of
motorman and conductor are very desirable
for young men ambitious to secure a pleasant and profitable employment, with opportunity for advancement. Motormen and con-

OF YOUR CEMENT MONEY Send for our free book, "Practical Cement Facts;" it tells how. It gives facts that no other cement book contains. It gives in detail how to choose and use cement so as to obtain the best results. It tells why we grind

Ash Grove Superfine

Portland Cement at least 10 per cent finer than "standard ground" cements.
And why this fine grinding makes ASH GROVE SUPERFINE do 20 per cent more work than those cements—why it will save you 20 per cent of your cement money. Send for our book—a postal will do
ASH GROVE LIME and PORTLAND CREMET 60. FREE 800H

Dep't 4 Kansas City, Mo.

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, 1242 East 15th Street, Kansas City, Mo.

#### SABETHA, KANSAS SYCAMORE MINERAL SPRINGS.

The medicinal preparties of these springs are unquestionable. The most pursished cases of RHHUMATISM, KIDNEY TROUBLE and STOMACH COMPLAINTS have been cured here. Rundreds of Kansas poople visit these springs every year. Delightful health and pleasure resort; excellent hetel accommedations. Rates reasonable. Lecated 6 miles from Sabetha, Kan. For further particulars address.

SYCAMORE MINERAL SPRINGS HOTHL, Sabetha, Kan.

ductors earn \$60 to \$100 a month. Any young man between the ages of 20 and 40 is eligible, and he will be able to secure employment in almest any city by writing the National Railway Training Association, Kansas City, Mo., whose advertisement appears on another page and with whose officers a representative of this paper is personally acquainted.

The Shawnee Alfalfa Club.

The May meeting of the Shawnee Alfalfa Club was a very successful one in spile of the fact that it was held in the midst of a very busy season. The attra: "I've foature of the meeting was the address by Director Ed. H. Webster of the Agricultural College Experiment Station. As the active head of the experiment Stations at Hays, Manhattan and McPherson, the first of which is the largest of its kind in the world, Director Webster speaks with more than ordinary authority. He stated that the experiment station is new working to determine the different varieties suitable for Kansas. Heretofore farmers have gone ahead raising alfalfa without noticing the fact that there are a great many varieties of this most useful plant. The result is that many types are to be found in any field of alfalfa. Some of the plants have stems lying close to the ground while others stand erect. Some have there have very narrow ones. Some have thirk, woody stems and others grow thin ones. Some have many blossoms and others few. Some have many blossoms and others few. Some have many blossoms and others few. Some have halvy stems and leaves, others are smooth. These facts and others make it plain that there is as much need for judicious selection of alfalfa seed as for corn seed. It is also apparent that seed breeding is most important. The experiment station is working along these and other lines and its work is of vast importance as it cannot be done by the individual farmer.

"I have been in almost every state in the Union in the past two years, and I have talked alfalfa in all of them. I believe it will grow in every part of the country, and that it will eventually become a part of the corp of every farm, even the farms on the unfavorable soil of Maryland and Virginia. The experiment stations have done little with alfalfa. Alfalfa growing is comparatively new.

"In our experimental work, with pots of Club was a very successful one in spile of the fact that it was held in the midst of a

alfalfa in greenhouses, we seek a kind that will have as many leaves on the plant as possible. Most of the nutriment is in the leaves. Five kinds of plants grown two years ago at our station averaged respectively 67, 61, 52, 49 and 34 leaves to the plant. What we want is the 67-leaf kind of plant.

"Resistance to frost is another thing to the plant of the first ownich some plants with us were exposed killed back only 2 per cent of the plants of the Turkestan variety, while of another variety 40 per cent were killed.

"You ought to get seed grown en soil and under conditions similar to those with which you must deal. Know where your seed was grown. This is true not only of alfalfa, but of all grains. I think there is a good business in every community awaiting one farmer, with taste and talent for it, who will raise seed to sell to his neighbors. He can raise it where they can see how he grews it and what it does in the field, and they can know the soil and conditions."

Bradford Miller, president of the association, said the reports of the meetings of the Alfalfa Club have got into Eastern paper and been circulated far and wide, and that the club was thus going a great deal of good."

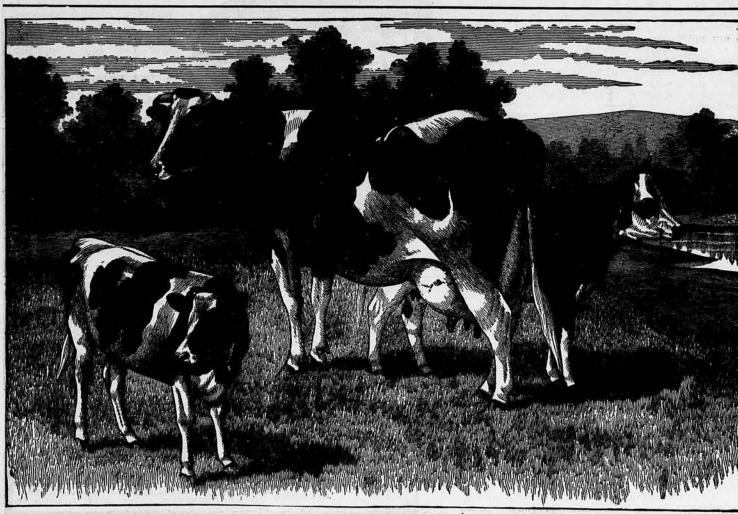
The topic chosen for next month's weeting is "Curing the First Crop and Handling the Ground Theresfier."

The topic chosen for next month's meeting is "Curing the First Crop and Handling the Ground Thereafter."

This was the annual meeting and the time for the election of officers but, ewing to the sickness of the secretary-treasurer, who could not be present with his annual report, the election was postponed until the next meeting which will be held on June 26.

The Enid Fair and Live Stock Show.

Secretary F. S. Kirk announces that the Enid Fair and Live Stock Association will have their great building finished within the week. The remarkable success of their first show and sale and the tremendous energy exhibited in erecting this enormous building marks an epoch in the pure bred nullding marks an epoch in the pure bred industry of the Southwest. Their annual show will be held in December of this year when they will make the same classification and offer the same premiums for Shorthorns that are given in the International. Added money from the American Shorthorn Breders Association makes this possible. The premium lists will be out in a few days.



# **Great Auction** Sale of Holsteins

55 head of registered and high grade cows and heifers of DeKol, Mercedes and Pietertje familes, many with calves at foot and others close springers.

EVERY COW IS TU-BERCULIN TESTED AND NO AFFECTED ANI MALS WILL BE OFFER

Also a number of good Guernsey bred cows ready to calve. All heavy, free mikers and the kind you want.

# Friday, June 18

At State Fair Grounds, Topeka, Kan. The time to buy is when the owner wants to sell. All trains lead to Topeka, Kansas. Zaun & Crews, Auctioneers.

Jas. B. Zinn, Owners

JUNE 12 FII

> .O. W. Jesse I J. W.

P Nov. 9— Nov. 11— hattan Spet. 30-

Sept. 29-Kan.,

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Oct. 5—
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Feb. 12—
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Nov. 8—
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Nov. 12—
Jan. 31—
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## FIELD NOTES

FIELD MEN.

O. W. Devine......Topeka, Kan. Jesse R. Johnson.....Clay Center, Kan. J. W. Johnson......Beloit, Kan.



PURE BRED STOCK SALES,
Percherons.

Nov. 9—J. C. Robison, Towanda, Kan.

Nov. 11—Percheron Ereders, Sale at Manhattan, Kan. Will H. Rhodes, Manager.

Spet. 30—Mrs. Wm. Brite, Pierce City, Mo.

Herefords.

Sept. 29—Miss Lou Goodwin, Blue Rapids,
Kan., dispersion.

Ran., dispersion.

Poland Chinas.

Aug. 3—J. A. Cins and W. L. Clark,
Conway Sprint Can.

Aug. 26—A. W. Shiriyer, Clevelend, Kan.
Sept. 23—J. R. Sparks, Hunter, Okia.
Oct. 5—J. D. Spangler, Sharon, Kan.
Oct. 20—Rey Johnson, South Mound, Kan.
Oct. 21—Herman Gronninger & Sons, Bendena Kan.
Oct. 27—Geo. W. Smith, Pawnee City, Neb.
Oct. 27—G. M. Hull, Garnett, Kan.
Oct. 27—G. M. Hull, Garnett, Kan.
Feb. 12—D. A. Wolfersperger, Lindsey, Kan.
Feb. 16—J. H. Harter, Westmoreland, Kan.

Sept. 3—H. A. J. Coppins, Potwin, Kan.
Oct. 27—Pearl H. Pagett, Beloit, Kan.
Nov. 5—Miner & Cross, Guide Rock, Neb.
Nov. 8—C. L. Carter, Cabool, Mo.
Nov. 9—A. L. Aitkin and W. W. Weast, Parsons, Kan.
Nov. 12—S. W. Alfred

Kan.
Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 7—Frank Elder, Green, Kan.
Feb. 3—Samuelson Bros., Manhattan, Kan.
Feb. 9—Samuelson Bros., Cleburne, Kan.
Feb. 10—Samuelson Bros., Blaine, Kan.
Feb. 17—Thompson Bros., Garrison, Kan.
Feb. 18—T. E. Goethe, Leonardville, Kan.
Feb. 21—W. T. Fitch, Minneapolis, Kan.
Feb. 22—Pearl H. Pagett, Beloit, Kan.
Feb. 23—F. G. McDowell, Corning, Kan.
Feb. 23—R. G. Sollenbarger, Woodston, Kan.

If in need of anything in the line of jacks or Herefords correspond with Yates Bros. of Faucett, Mo. They have stock for sale at all seasons of the year.

E. H. Abrahams of Emporia, Kan., mar-keted two fine loads of 1,615 pound Hereford steers on the Kansas City market last week. There were 38 head in perfect finish and they brought \$7 per 1000 or \$113.05 per head net.

F. M. Gifford, proprietor of the old reliable Elmwood Shorthorn herd located at Wakefield, Clay county, Kan, is offering a few very choice young buils sired by his stat bull Lord Marr. If you want to buy a good bull worth the mency write Mr. Gifford at once, mentioning Kansas Farmer.

H. L. Faulkner, who breeds the big spetted kind of Poland Chinas at Jamesport, Mo., is well pleased with the results of his advertising in Kansas Farmer. He says he lately sold a bunch of fine pigs to New York state through Kansas Farmer advertising and that is going some.

A subscriber wants to know how to mark bows and their litters so one could pick out each sow and pig and be sure of them. He states that it is much harder to keep track of red or white pigs than others because

Wichita

they have a uniform color and no markings. Will some good breeder of Duroc Jerseys or O. L. C.'s give his experience?

In the real estate pages this week Wm. Kindt, Marquette, Kan., is offering for sale two farms near Salina, Kan., that are very desirable in every respect. One is a short distance form the Wesleyan University. Both are fine farms and cheap at the prices are fine farms and cheap at the prices quoted. Write Mr. Kindt, Marquette, Kan., and mention his ad in Kansas Farmer.

Many of our readers will be interested if they will look over the land advertisements which appear on page 7 of this issue and of every issue. The publishers believe these individuals and firms are reliable and that they offer propositions worth investigation on the part of eur readers. In writing any of these land advertisers please say you saw their announcements in Kansas Farmer.

"Sheep Farming in Missouri" is the title of a very interesting and valuable bulletin by Prof. F. B. Mumford of the Animal Husbandry department of the Missouri State Luriversity and issued by Secretary Geo, B. Ellis of the State Board of Agriculture. This bulletin shows that Missouri has a larger investment in sheep than any adjoining state and with \$50,000 mere in numbers than Illinois. The Missouri Sheep Breeders Association is the largest association of its kind in the United States while the average value per head of Missouri sheep has increased more during the past four years than in any other state in the Middle West. Missouri has a very strong dog law which makes this profitable industry possible.

Mr. P. McConnell says in the British Live Stock Journal that "without disparaging any other breeds which are neted for the production of both beef and milk, it may be pointed out that the Shorthorn has always been famous for both qualities right through its history. The improved Shorthorn achieved its predominant position as a world wide breed by reason of its remarkable combination of the properties of beef making and milk production. The official standard of the London Dairy Show requires a greater annual yield of milk for the Shorthorn than for any other breed except the Dutch while the butter yield per day is the same as that required of the Jersey and Guernsey. What the Shorthorn does in beef making is known to all.

Geo. W. Eibert, Ness City, Kan., has a nice herd of Polled Herefords. He has recently purchased from the W. W. Guthrie estate a very fine herd bull. Mr. Eibert's herd numbers about 29 at the present time and is considered of very good quality. His fine farm adjoins town and is highly improved. Plenty of alfalfa and a big barn

and other equipment makes it possible for him to care for his herd of Herefords in a highly satisfactory manner. Mr. Elbert has lived in Ness county a long time and is a big land owner himself and has made all he has farming in this county. He is also in the real estate business in Ness City, Kan., and has a big list of farms and cattle ranches which he will send anyone interested free. Address Geo. W. Elbert, Ness City, Kan.

C. O. Anderson, Route 3, Manhattan, Kan, is doing a great business with his Duroc Jerseys this spring. He writes: "My trade has been splendid. I have sold, or have orders for, three times as many pigs as I had last year at this time. Of course many of my old customers are coming back to me for breeding stock. I have never had a bunch of pigs do better. I just got an order for two head from Dayton, Mich. My hogs have lots of range and plenty of alfalfa. I do not raise more than 150 pigs a year, but I take care of them. I think it much better to raise a smaller number and take good care of them than to raise a large number and have half of them runts. Two parties who saw my advertisement in Kansas Farmer came out to the farm and one bought more than \$100 worth of hogs and the other took two good brood sows." Mr. Anderson is an energetic young breeder whom it will pay to keep in touch with. Write him and mention Kansas Farmer, please.

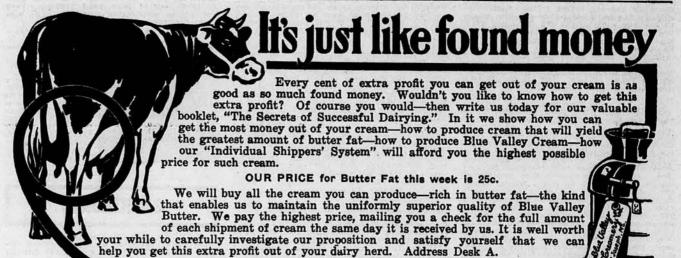
J. E. Woodford of Coffey county, Kan., April 1, 1905, placed ten choice pure bred Poland China brood sows from 12 to 18 months eld, that were due to farrow in the latter days of June, on a five acre field of alfalfa. They were given no other feed than the alfalfa pasturage until they had farrowed and their pigs were a week eld. After that the sows had in addition to the alfalfa seme bran slop until about August 20, when new corn was fit for feeding. He wrote: "The sows from the time they were turned on the alfalfa until the last week in June made a remarkable growth, besides gaining somewhat in flesh. They did well with their pigs, reared an average of seven to each sow, and as suckiers they were a sight to see. The pigs were the most attractive bunch ever raised in Coffey county, as admitted by our breeding competitors. We weighed a gilt from this lot when six months and five days old, and her weight of 225 pounds was not above the average of the whole lot. In our lifetong experience in rearing swine we have found nothing as a grazing crop for swine that in value approaches alfalfa."—From Coburn's "Swine in America."

It is much the best economy to furnish swine a grain ration when they are on pas-ture, as it results in better gains and a

WORK AND LAST.

St., Topol

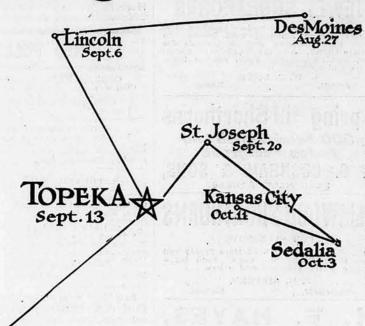




BLUE VALLEY CREAMERY COMPANY, St. Joseph, Mo.

# The Big State Fair & Live Stock Exposition

Topeka,



# TOPEKA, September 13-18, 1909

dings, New Sewer System, New Equipment. rents and increased premiums. Free space for Implements and Machinery. \$20,000 in premiums and the glad hand to you.

Member of the Big State Fair circuit with short shipments for each fair. Also member of the Kansas Grand circuit. Everybody accommodated and everybody welcome. Exhibits in every department, but especially strong in live stock, implements, machinery, agriculture, horticulture, dairy, poultry, apiary and household. Special money for the Boys' Corn Contest and for pure bred live stock. The best track in the state and a large race entry.

For entry blanks and premium list address

R. T. KREIPE, Secretary,

Kansas

# Kansas State Fair HUTCHINSON, SEPTEMBER

11-12-13- 4-15-16-17. 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 excepties of about \$750 added to the premiums on Shorthorns mostly for state exhibitors which is to encourage the Shorthern breeders of Kansas, and a better classification and mere money will be given Polled Durhams. In the swine division a full classification will be given this year to Hampshire hegs, also Chester Whites."

year to Hampshire hegs, also Chester Whites."
\$35,960 in purses and premiums. Seventeen grand divisions. Unrivaled attractions. The fair for the people, by the people. For catalog or detail information address

A. L. SPONSLER, Hutchinson.

better product. One man estimates that it takes from one-half to one-third less corn on alfalfa pasture than on a straight grain ratien to make a hog ready for market. Many let the hogs run on alfalfa until about five to six months old, by which time they reach a weight of 75 to 125 pounds, feeding just a little grain; then they feed heavily for about two months and sell the hogs at eight months old at weights of 250 to 300 pounds. One farmer, who raises about a thousand hogs a year and who in one year sold \$11,200 worth, makes a practise of growing his hogs on alfalfa pasture until about eight months old, feeding one ear of corn per head daily. He then feeds heavily on corn for a month or two and sells at an average weight of 200 to 225 pounds. Another man feeds all the corn and slop the plgs will clean up, all the while grazing them on alfalfa pasture, and sells at six to eight months old a fweights of 250 to 300 pounds. Another, who raises about a thousand head a year, feeds all the corn the pigs will est, beginning shortly after weaning and continuing until the hogs are sold at 10 to 11 months old, averaging about 275 pounds. Another farmer, from weaning time, two months old, until eight months old, feeds the pigs nothing but dry corn on alfalfa pasture, averaging about one-half gallon of corn (3½ pounds) a day per head. At the end of eight months he sells at an average weight of 250 pounds.—From Coburn's "Swine in America."

When our fathers were boys the Poland Chinas had big white spots on them and the sows had big litters. The writer occasionally has some old fellow ask him where he can buy some of the old fashloned kind. We found a herd of this kind over in old Missourl recently. It belongs to H. L. Faulkner of Jamesport. Mr. Faulkner arranged for some advertising and his card will start in Kansas Farmer a little later. But he has stock for sale any time and don't wait if ready to buy. But please mention this paper when writing.

A Live One.

In there days when hustling counts for so much, we occasionally speak or a fellow as being a live one or a dead one, meaning by this that he is a wide awake hustler or a man that waits for opportunity to knock at his door a good many times before he recognizes the knock. In the live stock auctioneer world there are men that represent both of these schools. An auctioneer sometimes thinks that because he has a special talent for the calling and can make good it isn't necessary for him to make any special effort only on sale day. This is a grave mistake. There are thousands of men that can sell a lot of good stock to a big crowd of good buyers. But what is needed is more men that hustle all the year around, and by hard study figure out the best methods of interesting men in better stock. The up-to-date auctioneer must know the wants of the public, be a student of pedigree, individuality and human nature; such a man is Col. Thos. E. Deem of Cameron, Mo. His advertisement appears with this issue of Kansas Farmer. Write him about desirable date and when do so kindly mention Kansas Farmer.

The Bidge View Berkshires.

Manwaring Bros., owners of the Ridge View Berkshires, Route 1. Lawrence, Kansas, have been breeding good Berkshires so long that their names have become bousehold words. When oone thinks of Berkshires it is but natural that he should at once think of the Manwaring Bros. and to thing of them is to want to buy from them. Just now they are selling some extra good hogs to widely separated patrons. Through their advertisement in Kansas Farmer they lately sold a fine young boar to Frank Young of Columbus, Montana, who wrote that the pig came through in fine shape after his four days travel and that he is a good one. The Ploneer Trust Co. of Kansas City, Mo. wrote that they were highly pleased with the fine young boar just bought from Ridge View farm and say they will buy some more hogs later on. C. R. Lewis, Independance, Kansas also got a good hoar with which he is pleased. Local sales have been good, as the neighbors like the herd boar, Forest Supreme and especially do they like the pigs by this boar from Forest King Sows. Tell Manwaring Bros. your wants.

A Great Sale of Holsteins and Guernseys. On Friday. June 18, at the State Fair grounds in Topeka will be held one of the biggest sales of dairy bred cows and heifers ever made in Kansas. Both Holsteins and Guernseys will be sold and every one of them has been tuberculin tested and certified. They are free, heavy milkers and each cow either has a calf at foot or is due to calve within 15 days of sale. Among the Holsteins are members of the De Kol, Morcedes and Pietertje families and the cows and heifers will have calves by such buils as Clothilde Sparkle 2d 41423. Gem Mercedes Abbekerk De Kol 44492 and Duke Johanna Parthenea 40867. A number of excellent Guernsey cows, just ready to calve will also be offered. There will be 55 head offered in the sale including a few buils and the opportunity to get just what you want will be such as does not come frequently. I will be a great chance. With the increasing price of land the surest way to make the farm pay is to buy such cows as these and increase the fertility of the soil while making money off the cows. Good cows double the income. The time to buy is when the owner wants to sell. Read the handsome advertisement of this sale and remember that all roads lead to Topeka State Fair grounds on Friday, June 18. This advertisement will not appear again and the opportunity is too good to miss.

J. H. Harter's Poland Chinas.

J. H. Harter's Poland Chinas.

A visit to the farm of J. H. Harter of Westmoreland, Kan., will convince any intelligent farmer or breeder that he is one of the Kansas breeders who is breeding about the right sort of big Polands. They are big but have all the quality of smaller hogs. When Mr. Harter started in the business several years ago he bought liberally of such big strains as Expansion, Over Chief, Prince Youtel, etc. His present herd boars are Megul's Monarch and Toulson Prince. The first named is a son of the great boar Mogul, for years at the head of the Carl Jensen & Son herd at Bellevlile, Kan. Mogul's Monarch is a litter brother to Mogul's Masterplece, the boar that won first and reserve championship at Nebraska State Fair, 1907. The dam of Mogul's Monarch was by old Expansion so you can see he is bred big. Toulson Prince is a grandson of Victor X. L., winner at St. Louis World's Fair. His dam was also by Expansion. Nearly all of the spring pigs are by Mogul's Monarch. They are out of such splendid sows as the great old sow Lady Youtell 4th, dam of the noted sire Prince Youtell; Silver Beauty by Silver Chief 41077, her dam May Logan by Logan Chief; Queen Pansy by Expansion, dam Burlington Queen by Expansion 2d; Pretty Princess by Ex Medium, he by the great sire King Do Do. Another is a daughter of old Over Chief, Maud Perfection by Graniteer, She has a fine litter by Captain Hutch. Mr. Harter has for sale a few choice last fall boars that he will price low. The splendid hog ranch owned by Mr. Harter and where he resides and cares for the Poland Chinas himself is located five miles sorthwest of Westmoreland and three miles east of Fostoria on the L. K. & W. railroad. When visiting or writing him kndly speak of Kansas Farmer.

Alfalfa Valley Farm Herd.

Alfalfa Valley Farm Herd.

Wednesday of last week the writer visited Otto Young's Alfalfa Valley Farm herd of Red Polled cattle. We have known of this popular herd of Red Polls for a good while but this was our first visit there and the first time we ever met Otto Young. His farm, which consits of 1,500 acres, is located in Trego county, but his postoffice is Utica, Kan, which is over the line in Ness county. We spent a big half of the day with Mr. Young and had dinner with him and his family and enjoyed the visit very much. We were driven over the farm and had the pleasure of looking at as fine alfalfa as there is in the state. Mr. Young has about 150 acres in alfalfa. His herd of Red Polls numbers 85 head and he has for immediate sale eight young bulls ranging in age from 10 to 16 months. He will sell these young bulls very cheap. In fact too cheap, we think, but Mr. Young has been pricing them this way lately and says they go at the same old price. He also has some young heifers for sale at very reasonable prices. In looking the herd over we noticed much worthy of mention but the real attractions were two young bulls, only a few months of age, but out of the best cows in the herd that should go to some good herd, when their time comes. Mr. Young desires to soil \$20 acres of land which is the cheapest proposition in our opinion to be found anywhere. Eighty acres of this will grow alfalfa like that mentioned above and 210 acres of the 320 is tillable. The best of water in abundance and within a short distance of a nice new church and also a school house. The neighborhood is a very desirable one in which to raise a family. There are fair improvements on this farm consisting of house, stable, orchard and other improvements. Mr. Young wants to sell this and is desirous that a good man buy it. It can be had for \$15 per acre and part would be taken in trade for something that is worth the money and not incumbered. Always mention Kansas Farmer when writing Mr. Young.

Secretary F. A. Welch of the live stock department of the Alaska-Yukon-Pacific Exposition which will be held at Seattle, Wash., from June 1 to October 15 writes to Kansas Farmer, as folows: "I very much enjoy reading your splendid farm paper, especially the live stock articles."

The Big Cedar Rapids Percheron Sale.

W. I. DeClow's sale of Percherons held at his home town, Cedar Rapids, Ia., last week, was in every way a success so far as good stock, good management and a good crowd of buyers were concerned. Some of the mares, however, sold much too low fer their quality. The sale was largely attended by farmers and breeders from many states and Mr. DeClow has the satisfaction of knowing that he has sown good seed that will bring him a harvest at later sales. The sales follow:

MARES.	
1-W. H. Doonan, Rock Island, Ill.	\$900.00
2-W. A. Hale, Anamosa, Ia	1.000.00
3-Geo. B. Ross, Alden, Kan	900.00
4-J. E. Kennedy, West Branch, Ia.	710.00
5—E. A. Hanlon, Lone Tree, Ia	735.00
6-W H Doopen Book Island III	900.00
6-W. H. Doonan, Rock Island, III. 7-L. N. Ellyson, West Branch, Ia.	760.00
8-W. B. Merriman, Dixon, Ill	985.00
0 W. C. Florest Miles To	1.000.00
9—E. C. Forest, Miles, Ia	
11-R. B. Talbot, Rochelle, Ill	725.00
12-G. B. Ross, Alden, Kan	900.00
13-G. B. Ross	625.00
14-J. E. Kennedy, West Branch, Ia.	755.00
15-E. H. Hanlon, Lone Tree, Ia	735.00
16-E. C. Forest, Miles, Ia	1,100.00
17-W. B. Merriman, Dixon, Ill	750.00
18-U. I. Casey, Iowa City, Ia	900.00
19—G. B. Ross	625.00
20-W. B. Merriman	650.00
21-S. J. Hagerman, Toddville, Ill.	710.00
22-W. H. Doonan	660.00
25-W. B. Merriman	650.00
27-H. Pehler, Ainsworth, Ia	700.00
29—G. B. Ross	600.00
30-R. D. Finnigan, Martelle, Ia	600.00
34-G. B. Ross	600.00
28-W. Hartwell, Miles City, Mont	1,000.00
26-W. Hartwell	950.00
Show mare not cataloged, H. Pehler	and the second
Ainsworth, Ia	1,000.00
STALLIONS.	
Three-year-old "Coudray," C. L.	
Spicer, Roseville, Ill	1,150.00

chased was the grand championship mare which won the first premium in championship and gold medal in the Mammore's show last season in France and is as good a one as was ever imparted to America. It required a king's ransom to induce the French owner to part with this mare and Mr. Ross has been very fortunate in securing such a good one and his selections show his wise judgment and experience as a draft horse man. Mr. Ross also purchased one of the best coming two-year-olds ever imported to America in the freshly imported young Percheron stallion Halbourg. This stallion weighs 1,650 at a coming two-year-old. Is one of the heavy-boned, thick, wide kind with four corners, and the toppiest, best acting one you ever saw, sired by the great champion French Government stallion Marseillais, the highest priced service stallion in the Government stud. His dam was the champion mare Gentille in the Mammere's show when carrying this foal in 1906. Mr. Declow writes as follows: "My buyer who has been in the Perche ror eight months selecting the best mares from the old Percheron breeding farms along the Wisne river, will continue his efforts to buy 30 head of the best young exhibition mares to be had, for my harvest sale. He has purchased eight during the past month and will be able to get at least 22 or 24 more before August 1. This harvest sale will be a sale of striotly high class Percheron brood mares. It will include many of the championship winners in the Paris and other shows in France this season."

#### **HEREFORDS**

SPRING CREEK HEREFORDS.

100 head in herd. Prairie 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 eld at easy prices. Write or come. T. A. WALLACE, Barnes, Kan.

HEREFORD BULL FOR SALE.

17 months eld, grandson of Imp. Lord Saxen, dam by Stenemason 13th, weighs 1,000 bas, nicely marked, good tep and under line, droop horn and a fine individual in every respect. Will price reasonable.

J. W. TOLMAN, Hope.

HERRFORD BULLS FOR SALE.

12 head sired by Onward 18th and Ma-jestic 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, Kansas.



Beau Brummel 10th 167719.

Modern Here-fords. Here bulls fords. Here bulls
Be a u Brummel
10th 167719, Beau
Be a u t y 192235
and Protocol 2d
117715. Robert H.
Hazlett, Hazford
Place, Eldorado,
Kansas.

#### SHORTHORMS

CEDAR BLUFF SHORTHORNS. 100 head headed by Double Standard Or-ange Cup X5565 (258226.) 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 \$300; 10 heifers \$45; herd bull \$175. Entire herd \$1,550, a rare bargain.

J. E. WELLER, Faucett, Mo.

GREENPALE STOCK FARM.

25 YOUNG BULLS by Imp. Ardlathan
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.,
Warence.

# JEWEL SHORTHORNS

A young herd of up-to-date breeding. Also Percheren and Standard bred herses. In stud: the Percheren stallion Marquis De Wierre (imp.). Also the Standard bred stai-lion, Red Seth 31185. Farm adjoins town. Come and see us.

Jewell, W. T. LOWE, Kansas.

## **Spring Hill Shorthorns** 300 Head Scotch and "Bates Pedigrees C. G. COCHRAN & SONS,

PLAINVILLE, KANSAS.

# ELMWOOD SHORTHORNS

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

F. M. GIFFORD, Wakefield,

and the control of the state of

#### HA YES.

BREEDUR OF SHORTHORN CATTLE, QLATHE, KANSAS.

Herd headed by Baron Marr, a sen of "Cumberland's Last" and out of Imp. Lady Marr. 5 Scotch bulls and a few females will be priced right. Come and see them.

#### SHORTHORNS

N. S. LEUZLER, Breeder of the best in Sherthorns Almena, (Norton Co.) Kan.

## Evergreen Home Farm.

Milking Shorthorn Cattle, bred Hornies Berkshire Hoge. Oxford down Sheep. Bourbon Red Turkeys. MISSOURI

## RENO HERD SHORT. HORN CATTLE -

Bulls in service, Forest Knight 226084 and Victor Archer 264156. Breedleg stock for sale.

Stewart & Downs, Hutchinson, Ks

## FOR SALE.

10 choice young buils from 8 to 18 months old, part straight Seetch. Choice yearing and short two-year-old

Choice yearing and action heliers.
Good colors, bred right, priced right.
C. W. TAYLOR, Peerl, Kan.
Address mail R. F. D. 2, Enterprise, Kan.

## **Prospect Farm Shorthorns**

The oldest Shorthorn breeders in Kansas. The largest herd of Cruickshanks in Kansas. Herd headed by Violet, Prince 145647 and Orange Commander 220590. Young stock of beth sexes and some cows for sale. Quality and prices right.

H. W. McAFEE, Bell Phone 59-2.

Topeka, Kansas

#### POLLED DURHAMS

Young bulls, cows and helfers for sale.

Prices reasonable. Write for them.

C. J. WOODS,

Chiles. Kansas.

#### BELVEDERE X2712--195058

son of the \$1,500 Grand Victor X 1685 150384 heads my herd of Double Standard Polled Durhams. A few extra good blocky, thickfleshed young bulls for sale. Inspection invited. Farm joins town.

D. C. VAN NICE,
Kansas. Richland.

#### **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 lowalso 8 yeung buils with pedigrees. Must be sold quick.—MRS. L. C. FRENCH, Marion, Kan.

#### FOR SALE.

A. J. C. C. bull calf, 4 months old, dam made 362 lbs, butter with first calf (now has 3d calf). Sire's dam, 22 lbs. 10 ost in 7 days with 2d calf. As this is the last bull till next crop will put a very low price on him. Registered and crated f. o. b. cars. DR. W. M. SHIRLEY,

#### Linscott Herd Jersey Cattle

Established 1878. Registered in A. J. C. C. For sale, tuberculin tested, 68 heifers under 2 years old, 18 cows under 6 years, 5 yearling bulls.

R. J. LINSCOTT, Holton,

# RED POLLS

COBURN MERD OF RED POLLS. Choice young stock of both sexes for sale; also a few cows.

GEO. GROENMILLER & SON,
Kansas.

FOSTER'S RED POLLS.

15 cheice young bulls, a few good females
and our 2,469 pound herd bull Dandy S. 9147 for sale at bettem prices. CHAS. FOSTER

POLAND CHINA SWINE
RED POLLED CATTLE
Rest of breeding. Write or come and see
CHAS. MORRISON & SON, R. 2, Phillipsburg, Kan.

ALFALFA VALLEY RED POLLS.

8 young bulls 12 to 16 months old and a few heifers. Can ship over main lines More Pacific and Union Pacific R. R. Priced low. Write or come.

OTTO YOUNG, Ness County, Utica.

In a late number of the "Alumnus,"

In a late number of the "Alumnus," Prof. J. T. Willard presents the clear est exposition yet produced of the courses of study at the Kansas State Agricultural College. This will be found exceedingly helpful in all discussions looking to modifications of the work at Manhattan. In all studies of this kind accurate information is of this kind accurate information is of the first importance.